

PRINCETON PLASMA
PHYSICS LAB

Purchase Order Number:
S005243-F

Part Number:
VVSA PORTS

Part Name:
VVSA PORT EXTENSIONS
FOR LOT #3

MTM Work Order Number:
65678/9.0



Major

Tool & Machine, Inc.

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

Item#	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
1	CERTIFICATE OF CONFORMANCE

110030 - CF BLANK FLANGE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
2	188	10	10	Certificate of Conformance: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [mc107848.tif] (CERTIFIED)
3	188	10	10	Material Certification: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
4	191	10	10	Certificate of Conformance: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
5	191	10	10	Material Certification: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
6	220	10	10	Material Certification: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
7	220	10	10	Certificate of Conformance: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
8	223	10	10	Material Certification: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)
9	223	10	10	Certificate of Conformance: / 110030 - CONFLAT BLANK FLANGE, 8.0 DIA. [See Item #2] (CERTIFIED)

110032 - CF BLANK FLANGE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
10	204	10	10	Certificate of Conformance: / 110032 - CONFLAT BLANK FLANGE, 10.0 DIA. [mc108994.tif] (CERTIFIED)
11	204	10	10	Material Certification: / 110032 - CONFLAT BLANK FLANGE, 10.0 DIA. [See Item #10] (CERTIFIED)
12	210	10	10	Material Certification: / 110032 - CONFLAT BLANK FLANGE, 10.0 DIA. [See Item #10] (CERTIFIED)
13	210	10	10	Certificate of Conformance: / 110032 - CONFLAT BLANK FLANGE, 10.0 DIA. [See Item #10] (CERTIFIED)

110058 - CF FLANGE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
14	200	10	10	Certificate of Conformance: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [mc107054.tif] (CERTIFIED)
15	200	10	10	Material Certification: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [See Item #14] (CERTIFIED)
16	200	10	10	Non-Conformance: 17237 Customer document: SUBMITTAL [car04477.pdf]

190019 - BOLT SET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
17	97	10	10	Certificate of Conformance: / 190019 - BOLT SET.500-20 X 3.0 SST HHCS,WASH, NUT [mc107847.tif] (CERTIFIED)
18	97	10	10	Material Certification: / 190019 - BOLT SET.500-20 X 3.0 SST HHCS,WASH, NUT [See Item #17] (CERTIFIED)

401000 SPECIAL - CF HALF NIPPLE 2.5" LONG

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
19	110	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [mc107040.tif] (CERTIFIED)
20	110	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
21	119	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
22	119	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
23	130	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
24	130	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
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Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

25	149	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
26	149	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
27	196	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
28	196	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
29	201	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
30	201	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

480FAN100-G-E - CF FLANGE 6"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
31	255	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [mc111127.tif] (920183)
32	255	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
33	256	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
34	256	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
35	257	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
36	257	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
37	258	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
38	258	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
39	259	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
40	259	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
41	260	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
42	260	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
43	268	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
44	268	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
45	269	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
46	269	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
47	276	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
48	276	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
49	277	10	10	Certificate of Conformance: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)
50	277	10	10	Material Certification: / 480FAN100-G-E - BORED FLANGE, 6CF, FIXED, TAPPED [See Item #31] (920183)

480FAN160-G-E - CF FLANGE 8"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
51	261	10	10	Material Certification: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [mc111259.tif] (920135)
52	261	10	10	Certificate of Conformance: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
53	262	10	10	Material Certification: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
54	262	10	10	Certificate of Conformance: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
55	270	10	10	Certificate of Conformance: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
56	270	10	10	Material Certification: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
57	271	10	10	Certificate of Conformance: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)
58	271	10	10	Material Certification: / 480FAN160-G-E - WELD FLANGE, 8CF, FIXED, TAPPED [See Item #51] (920135)

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
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480FAN200-G-E - CF FLANGE 10"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
59	266	10	10	Certificate of Conformance: / 480FAN200-G-E - WELD FLANGE, 10CF, FIXED, TAPPED [mc111128.tif] (920014)
60	266	10	10	Material Certification: / 480FAN200-G-E - WELD FLANGE, 10CF, FIXED, TAPPED [See Item #59] (920014)
61	267	10	10	Material Certification: / 480FAN200-G-E - WELD FLANGE, 10CF, FIXED, TAPPED [See Item #59] (920014)
62	267	10	10	Certificate of Conformance: / 480FAN200-G-E - WELD FLANGE, 10CF, FIXED, TAPPED [See Item #59] (920014)

480FAN250-G-E - CF FLANGE 12"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
63	263	10	10	Material Certification: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [mc111125.tif] (920014)
64	263	10	10	Certificate of Conformance: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
65	264	10	10	Material Certification: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
66	264	10	10	Certificate of Conformance: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
67	265	10	10	Material Certification: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
68	265	10	10	Certificate of Conformance: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
69	272	10	10	Material Certification: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
70	272	10	10	Certificate of Conformance: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
71	273	10	10	Material Certification: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)
72	273	10	10	Certificate of Conformance: / 480FAN250-G-E - WELD FLANGE, 12CF, FIXED, TAPPED [See Item #63] (920014)

480FBL080-E - CF FLANGE 4.625"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
73	274	10	10	Certificate of Conformance: / 480FBL080-E - BLANK FLANGE, 4.625CF, FIXED [mc111126.tif] (920135)
74	274	10	10	Material Certification: / 480FBL080-E - BLANK FLANGE, 4.625CF, FIXED [See Item #73] (920135)
75	275	10	10	Certificate of Conformance: / 480FBL080-E - BLANK FLANGE, 4.625CF, FIXED [See Item #73] (920135)
76	275	10	10	Material Certification: / 480FBL080-E - BLANK FLANGE, 4.625CF, FIXED [See Item #73] (920135)

DOMESKIRT

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
77	288	10	10	Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK [mc111853.tif] (2650 4 6771)
78	288	30		Inspection Data Checklist: 3 steps
79	289	10	10	Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK [See Item #77] (2650 4 6771)
80	289	30		Inspection Data Checklist: 3 steps

PORT DOME

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
81	4	22		Inspection Data Checklist: 3 steps
82	4	24		Map(s): X-RAY [mc114978.tif]
83	5	22		Inspection Data Checklist: 3 steps
84	5	24		Map(s): X-RAY [mc114977.tif]

PORT EXT. 5B SUB-ASSY - PORT EXT. 5B SUB-ASSY

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
85	190	10	10	Non-Conformance: 17240 Customer document: CUSTOMER SUBMITTAL [car04472.pdf]

SE120-004 12-1 SW BLANK - PORT 12A SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
86	31	10	10	Material Certification: / SE120-004 12-1 SW BLANK - PORT 12-1 SW FLAT BLANK [mc109051.tif] (2650 5 6805)
87	113	10	10	Material Certification: / SE120-004 12-1 SW BLANK - PORT 12-1 SW FLAT BLANK [See Item #86] (2650 5 6805)

SE120-004 12-1 SW - PORT 12- SIDEWALL LARGE RADIUS Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
88	31	20		Certificate of Conformance: [mc112352.tif]
89	113	20		Certificate of Conformance: [See Item #88]

SE120-004 12-2 SW BLANK - PORT 12A SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
90	32	10	10	Material Certification: / SE120-004 12-2 SW BLANK - PORT 12-2 SW FLAT BLANK [mc109052.tif] (2650 5 6805)
91	114	10	10	Material Certification: / SE120-004 12-2 SW BLANK - PORT 12-2 SW FLAT BLANK [See Item #90] (2650 5 6805)

SE120-004 12-2 SW - PORT 12-2 SIDEWALL Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
92	32	20		Certificate of Conformance: [See Item #88]
93	114	20		Certificate of Conformance: [See Item #88]

SE120-004 4-1 SW BLANK - PORT 4-1 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
94	124	10	10	Material Certification: / SE120-004 4-1 SW BLANK - PORT 4-1 SW FLAT BLANK [mc109053.tif] (2650 5 6805)
95	139	10	10	Material Certification: / SE120-004 4-1 SW BLANK - PORT 4-1 SW FLAT BLANK [See Item #94] (2650 5 6805)

SE120-004 4-1 SW - PORT 4-1 SIDEWALL Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
96	124	20		Certificate of Conformance: [mc112353.tif]
97	139	20		Certificate of Conformance: [mc111587.tif]
98	139	20		Certificate of Conformance: [See Item #96]

SE120-004 4-2 SW BLANK - PORT 4-2 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
99	125	10	10	Material Certification: / SE120-004 4-2 SW BLANK - PORT 4-2 SW FLAT BLANK [mc109057.tif] (2650 5 6805)
100	140	10	10	Material Certification: / SE120-004 4-2 SW BLANK - PORT 4-2 SW FLAT BLANK [See Item #99] (2650 5 6805)

SE120-004 4-2 SW - PORT 4-2 SIDEWALL Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
101	125	20		Certificate of Conformance: [mc112408.tif]
102	140	20		Certificate of Conformance: [See Item #96]

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
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103 140 20 Certificate of Conformance: [See Item #97]

SE120-004 4-3 SW BLANK - PORT 4-3 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
104	135	10	10	Material Certification: / SE120-004 4-3 SW BLANK - PORT 4-3 SW FLAT BLANK [mc108540.tif] (2650 4 6737)
105	141	10	10	Material Certification: / SE120-004 4-3 SW BLANK - PORT 4-3 SW FLAT BLANK [See Item #104] (2650 4 6737)

SE120-004 4-3 SW - PORT 4-3 SIDEWALL Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
106	135	20		Certificate of Conformance: [See Item #101]
107	141	20		Certificate of Conformance: [See Item #101]

SE120-004 4-4 SW BLANK - PORT 4-4 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
108	136	10	10	Material Certification: / SE120-004 4-4 SW BLANK - PORT 4-4 SW FLAT BLANK [mc108539.tif] (2650 4 6737)
109	142	10	10	Material Certification: / SE120-004 4-4 SW BLANK - PORT 4-4 SW FLAT BLANK [See Item #108] (2650 4 6737)

SE120-004 4-4 SW - PORT 4-4 SIDEWALL Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
110	136	20		Certificate of Conformance: [See Item #101]
111	142	20		Certificate of Conformance: [See Item #101]

SE120-004 4-5 SW BLANK - PORT 4-5 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
112	137	10	10	Material Certification: / SE120-004 4-5 SW BLANK - PORT 4-5 SW FLAT BLANK [mc109056.tif] (2650 5 6796)
113	143	10	10	Material Certification: / SE120-004 4-5 SW BLANK - PORT 4-5 SW FLAT BLANK [See Item #112] (2650 5 6796)

SE120-004 4-6 SW BLANK - PORT 4-6 SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
114	138	10	10	Material Certification: / SE120-004 4-6 SW BLANK - PORT 4-6 SW FLAT BLANK [mc118206.tif] (2650 5 6796)
115	144	10	10	Material Certification: / SE120-004 4-6 SW BLANK - PORT 4-6 SW FLAT BLANK [See Item #114] (2650 5 6796)

SE120-004 NB SW BLANK - PORT NB SIDEWALL BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
116	26	10	10	Material Certification: / SE120-004 NB SW BLANK - PORT NB SIDEWALL BLANK [mc109033.tif] (2650 5 6820)
117	26	10	10	Material Certification: Trace ID: 122992 / SE120-004 NB SW BLANK - PORT NB SIDEWALL BLANK [mc118207.tif] (2650 5 6820)
118	27	10	10	Material Certification: Trace ID: 122993 / SE120-004 NB SW BLANK - PORT NB SIDEWALL BLANK [See Item #117] (2650 5 6820)
119	27	10	10	Material Certification: / SE120-004 NB SW BLANK - PORT NB SIDEWALL BLANK [See Item #116] (2650 5 6820)

SE120-004 PORT 10 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
120	225	10	10	Material Certification: / VVSA PORT 10 TUBE - TUBE, 10.0 OD X .250 WALL [mc107793.tif] (2650 4 6769)
121	225	20		Inspection Data Checklist: 1 steps

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122	225	30		MTM NDT Cert: [mc110316.tif]
123	225	34		Inspection Data Checklist: 2 steps
124	230	10	10	Material Certification: / VVSA PORT 10 TUBE - TUBE, 10.0 OD X .250 WALL [mc107793.tif] (2650 4 6730)
125	230	34		Inspection Data Checklist: 2 steps

SE120-004 PORT 10A - PORT EXT. 10A SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
126	20	10		Inspection Data Checklist: 2 steps
127	228	10	10	Material Certification: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [See Item #14] (CERTIFIED)
128	228	10	10	Certificate of Conformance: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [See Item #14] (CERTIFIED)
129	228	10	10	Non-Conformance: 17237 Customer document: SUBMITTAL [See Item #16]
130	229	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
131	229	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

SE120-004 PORT 10B - PORT EXT. 10B SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
132	21	10		Inspection Data Checklist: 2 steps
133	233	10	10	Material Certification: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [See Item #14] (CERTIFIED)
134	233	10	10	Certificate of Conformance: / 110058 - CONFLAT BLANK FLANGE, 12.0 DIA. [See Item #14] (CERTIFIED)
135	233	10	10	Non-Conformance: 17237 Customer document: SUBMITTAL [See Item #16]
136	234	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
137	234	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

SE120-004 PORT 11A - PORT EXT. 11A SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
138	22	10		Inspection Data Checklist: 2 steps
139	235	10	10	Material Certification: / INCONEL 625_112 - PIPE, ALLOY 625, 2.5" SCH 10 [mc108425.tif] (26504674)

SE120-004 PORT 11B - PORT EXT. 11B SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
140	23	10		Inspection Data Checklist: 2 steps
141	238	10	10	Material Certification: / INCONEL 625_112 - PIPE, ALLOY 625, 2.5" SCH 10 [See Item #139] (26504674)

SE120-004 PORT 12A - PORT 12A SUB-ASSEMBLY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
142	2	30		Inspection Data Checklist: 4 steps
143	2	40		Inspection Data Checklist: 3 steps
144	2	70		Certification: X-RAY CERT [mc114979.tif]
145	2	70		Map(s): X-RAY MAP [See Item #144]
146	2	80		Inspection Data Checklist: 11 steps
147	2	120		Inspection Data Checklist: 7 steps
148	313	10		Certification: X-RAY CERT [mc114980.tif]

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

149	313	10	Map(s): X-RAY MAP [See Item #148]
150	313	30	Certification: X-RAY CERT [mc115734.tif]
151	313	30	Map(s): X-RAY MAP [See Item #150]

SE120-004 PORT 12B - PORT 12B SUB-ASSEMBLY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
152	3	30		Inspection Data Checklist: 4 steps
153	3	40		Inspection Data Checklist: 3 steps
154	3	70		Certification: X-RAY CERT [mc115314.tif]
155	3	70		Map(s): X-RAY MAP [See Item #154]
156	3	80		Inspection Data Checklist: 11 steps
157	3	120		Inspection Data Checklist: 7 steps
158	314	40		Inspection Data Checklist: 3 steps
159	314	70		Map(s): X-RAY MAP [mc115712.tif]
160	314	70		Certification: X-RAY CERT [See Item #159]
161	314	80		Inspection Data Checklist: 11 steps
162	314	120		Inspection Data Checklist: 7 steps

SE120-004 PORT 15 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
163	241	10	10	Material Certification: / VVSA PORT 15 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111107.tif] (132793)
164	241	20		Inspection Data Checklist: 1 steps
165	241	30		MTM NDT Cert: [mc111815.tif]
166	241	50		Inspection Data Checklist: 1 steps
167	244	10	10	Material Certification: / VVSA PORT 15 TUBE - TUBE, 4" O.D. X 0.25" WALL [See Item #163] (132793)
168	244	20		Inspection Data Checklist: 1 steps
169	244	30		MTM NDT Cert: [mc111820.tif]
170	244	50		Inspection Data Checklist: 1 steps

SE120-004 PORT 15A - PORT EXT. 15A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
171	24	10		Inspection Data Checklist: 2 steps
172	243	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [mc108146.tif] (CERTIFIED)
173	243	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004 PORT 15B - PORT EXT. 15B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
174	25	10		Inspection Data Checklist: 2 steps
175	246	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
176	246	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004 PORT 17 - PORT EXT. SUB-ASSY

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
177	166	10	10	Material Certification: / VVSA PORT 17 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111109.tif] (132793)
178	166	20		Inspection Data Checklist: 1 steps
179	166	30		MTM NDT Cert: [mc111811.tif]
180	166	50		Inspection Data Checklist: 1 steps
181	174	10	10	Material Certification: / VVSA PORT 17 TUBE - TUBE, 4" O.D. X 0.25" WALL [See Item #177] (132793)
182	174	20		Inspection Data Checklist: 1 steps
183	174	30		MTM NDT Cert: [mc111812.tif]
184	174	50		Inspection Data Checklist: 1 steps

SE120-004 PORT 17A - PORT EXT. 17A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
185	162	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 17B - PORT EXT. 17B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
186	164	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 18 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
187	171	10	10	Material Certification: / VVSA PORT 18 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111111.tif] (132793)
188	171	20		Inspection Data Checklist: 1 steps
189	171	30		MTM NDT Cert: [mc111804.tif]
190	171	50		Inspection Data Checklist: 1 steps
191	177	10	10	Material Certification: / VVSA PORT 18 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111110.tif] (132793)
192	177	20		Inspection Data Checklist: 1 steps
193	177	30		MTM NDT Cert: [mc111806.tif]
194	177	50		Inspection Data Checklist: 1 steps

SE120-004 PORT 18A - PORT EXT. 18A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
195	163	10		Inspection Data Checklist: 2 steps
196	165	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 2 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
197	180	10	10	Material Certification: / VVSA PORT 2 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111112.tif] (132793)
198	180	20		Inspection Data Checklist: 1 steps
199	180	30		MTM NDT Cert: [mc111794.tif]
200	180	50		Inspection Data Checklist: 1 steps
201	183	10	10	Material Certification: / VVSA PORT 2 TUBE - TUBE, 4" O.D. X 0.25" WALL [See Item #197] (132793)
202	183	20		Inspection Data Checklist: 1 steps

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

203	183	30		MTM NDT Cert: [mc111803.tif]
204	183	50		Inspection Data Checklist: 1 steps

SE120-004 PORT 2A - PORT EXT. 2A SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
205	6	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 2B - PORT EXT. 2B SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
206	7	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 4A - PORT 4A SUB-ASSEMBLY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
207	8	30		Inspection Data Checklist: 22 steps
208	8	40		Inspection Data Checklist: 3 steps
209	8	70		Map(s): X-RAY MAP [mc114964.tif]
210	8	70		Certification: X-RAY CERT [See Item #209]
211	8	80		Inspection Data Checklist: 9 steps
212	8	120		Inspection Data Checklist: 6 steps
213	9	80		Inspection Data Checklist: 9 steps

SE120-004 PORT 4B - PORT 4B SUB-ASSEMBLY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
214	9	30		Inspection Data Checklist: 22 steps
215	9	40		Inspection Data Checklist: 3 steps
216	9	70		Map(s): X-RAY MAP [mc115321.tif]
217	9	120		Inspection Data Checklist: 6 steps

SE120-004 PORT 5 - PORT EXT. SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
218	186	10	10	Material Certification: / VVSA PORT 5 TUBE - TUBE, 6.0 OD X .188 WALL [mc107834.tif] (2650-4-6731)
219	186	30		MTM NDT Cert: [mc110325.tif]
220	186	34		Inspection Data Checklist: 2 steps
221	189	10	10	Material Certification: / VVSA PORT 5 TUBE - TUBE, 6.0 OD X .188 WALL [See Item #218] (2650-4-6731)
222	189	20		Inspection Data Checklist: 1 steps
223	189	30		MTM NDT Cert: [mc110326.tif]
224	189	34		Inspection Data Checklist: 2 steps

SE120-004 PORT 5A - PORT EXT. 5A SUB-ASSY

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
225	10	10		Inspection Data Checklist: 2 steps
226	187	10	10	Non-Conformance: 17240 Customer document: CUSTOMER SUBMITTAL [See Item #85]

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

SE120-004 PORT 5B - PORT EXT. 5B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
227	11	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 6 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
228	192	10	10	Material Certification: / VVSA PORT 6 TUBE - TUBE, 10.0 OD X .250 WALL [See Item #124] (2650 4 6769)
229	192	20		Inspection Data Checklist: 1 steps
230	192	30		MTM NDT Cert: [mc110321.tif]
231	192	34		Inspection Data Checklist: 2 steps
232	197	10	10	Material Certification: / VVSA PORT 6 TUBE - TUBE, 10.0 OD X .250 WALL [See Item #124] (2650 4 6730)
233	197	20		Inspection Data Checklist: 1 steps
234	197	30		MTM NDT Cert: [mc110315.tif]
235	197	34		Inspection Data Checklist: 2 steps
236	230	30		MTM NDT Cert: [mc110314.tif]

SE120-004 PORT 6A - PORT EXT. 6A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
237	12	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 6B - PORT EXT. 6B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
238	13	10		Inspection Data Checklist: 2 steps

SE120-004 PORT 7 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
239	202	10	10	Material Certification: / VVSA PORT 7 TUBE - TUBE, 8.0 OD X .188 WALL [mc107833.tif] (2650-4-6731)
240	202	20		Inspection Data Checklist: 1 steps
241	202	30		MTM NDT Cert: [mc110317.tif]
242	202	34		Inspection Data Checklist: 2 steps
243	208	10	10	Material Certification: / VVSA PORT 7 TUBE - TUBE, 8.0 OD X .188 WALL [See Item #239] (2650-4-6731)
244	208	30		MTM NDT Cert: [mc110327.tif]
245	208	34		Inspection Data Checklist: 2 steps

SE120-004 PORT 7A - PORT EXT. 7A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
246	14	10		Inspection Data Checklist: 2 steps
247	203	10	10	Non-Conformance: 17233 Customer document: SUBMITTAL (SAME AS 17237) [car04482.rtf]
248	207	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
249	207	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

SE120-004 PORT 7B - PORT EXT. 7B SUB-ASSY

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
250	15	10		Inspection Data Checklist: 2 steps
251	209	10	10	Non-Conformance: 17233 Customer document: SUBMITTAL (SAME AS 17237) [See Item #247]
252	211	10	10	Certificate of Conformance: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)
253	211	10	10	Material Certification: / 401021 SPECIAL - DEL-SEAL CF HALF NIPPLE (SPECIAL LENGTH) [See Item #19] (CERTIFIED)

SE120-004 PORT 8 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
254	212	10	10	Material Certification: / VVSA PORT 8 TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111113.tif] (132793)
255	212	20		Inspection Data Checklist: 1 steps
256	212	30		MTM NDT Cert: [mc111807.tif]
257	212	50		Inspection Data Checklist: 1 steps
258	215	10	10	Material Certification: / VVSA PORT 8 TUBE - TUBE, 4" O.D. X 0.25" WALL [See Item #254] (132793)
259	215	20		Inspection Data Checklist: 1 steps
260	215	30		MTM NDT Cert: [mc111805.tif]
261	215	50		Inspection Data Checklist: 1 steps

SE120-004 PORT 8A - PORT EXT. 8A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
262	16	10		Inspection Data Checklist: 2 steps
263	214	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
264	214	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004 PORT 8B - PORT EXT. 8B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
265	17	10		Inspection Data Checklist: 2 steps
266	217	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
267	217	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004 PORT 9 - PORT EXT. SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
268	218	10	10	Material Certification: / VVSA PORT 9 TUBE - TUBE, 6.0 OD X .188 WALL [mc107834.tif] (2650-4-6731)
269	218	30		MTM NDT Cert: [mc110328.tif]
270	218	34		Inspection Data Checklist: 2 steps
271	221	10	10	Material Certification: / VVSA PORT 9 TUBE - TUBE, 6.0 OD X .188 WALL [See Item #268] (2650-4-6731)
272	221	20		Inspection Data Checklist: 1 steps
273	221	30		MTM NDT Cert: [mc110322.tif]
274	221	34		Inspection Data Checklist: 2 steps

SE120-004 PORT 9A - PORT EXT. 9A SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
275	18	10		Inspection Data Checklist: 2 steps

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

276 219 10 10 Non-Conformance: 17240 Customer document: CUSTOMER SUBMITTAL [See Item #85]

SE120-004 PORT 9B - PORT EXT. 9B SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
277	19	10		Inspection Data Checklist: 2 steps
278	222	10	10	Non-Conformance: 17240 Customer document: CUSTOMER SUBMITTAL [See Item #85]

SE120-004 PORT FJS - PORT EXT. FJS SUB-ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
279	224	10		Inspection Data Checklist: 2 steps
280	247	10	10	Material Certification: / VVSA PORT FJS TUBE - TUBE, 4" O.D. X 0.25" WALL [mc111108.tif] (132793)
281	247	20		Inspection Data Checklist: 1 steps
282	247	30		MTM NDT Cert: [mc111821.tif]
283	247	50		Inspection Data Checklist: 1 steps
284	249	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
285	249	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004 PORT NB - PORT NB SUB-ASSEMBLY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
286	1	30		Inspection Data Checklist: 4 steps
287	1	40		Inspection Data Checklist: 2 steps
288	1	70		Map(s): SE120-002-1PNX [mc114760.tif]
289	1	70		Certification: X-RAY CERT [See Item #288]
290	1	75		Inspection Data Checklist: 9 steps
291	1	90		Inspection Data Checklist: 6 steps

SE120-004-16 - PORT 11 PIPE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
292	235	30		Inspection Data Checklist: 3 steps

SE120-004-20A - VVSA DOME A

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
293	4	20	10	Certificate of Conformance: / SE120-004-20A - VVSA DOME A [mc110475.tif] (CERTIFIED)
294	4	20	10	Dimensional Report: / SE120-004-20A - VVSA DOME A [See Item #293] (CERTIFIED)

SE120-004-20B - VVSA DOME B

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
295	5	20	10	Dimensional Report: / SE120-004-20B - VVSA DOME B [mc110475.tif] (CERTIFIED)
296	5	20	10	Certificate of Conformance: / SE120-004-20B - VVSA DOME B [See Item #295] (CERTIFIED)

SE120-004-23 - CONFLAT, 6.0 OD TAPPED Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
297	167	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [car04483.rtf]

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

298	172	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
299	175	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
300	178	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
301	181	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
302	184	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
303	213	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
304	216	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
305	242	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
306	245	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]
307	248	10		Non-Conformance: 17167 Customer document: SUBMITTAL (SAME AS 17237) [See Item #297]

SE120-004-29 - CF REDUCING NIPPLE

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
308	168	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
309	168	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
310	173	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
311	173	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
312	176	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
313	176	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
314	179	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
315	179	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
316	182	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
317	182	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
318	185	10	10	Certificate of Conformance: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)
319	185	10	10	Material Certification: / FA06000133 - CF REDUCING NIPPLE, 6.00 TO 1.33" [See Item #172] (CERTIFIED)

SE120-004-32 - BOLT, 12PT, SILV PLT.

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
320	254	10	10	Material Certification: / SE120-004-32 - BOLT, 12 PT, SILVER PLATED, .50-20 X 3.5 [mc110752.tif] (062313725)

SE120-004-33 - BOLT SET

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
321	159	10	20	Material Certification: / 190165 - BOLT SET, .312-24 X 2.00 LG [mc107325.tif] (CERTIFIED)
322	159	10	20	Certificate of Conformance: / 190165 - BOLT SET, .312-24 X 2.00 LG [See Item #321] (CERTIFIED)

SE120-004-34 - BOLT SET

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
323	159	10	30	Material Certification: / 190058 - BOLT SET, .312-24 X 1.25 12PT SILVER PLT [mc107047.tif] (CERTIFIED)
324	159	10	30	Certificate of Conformance: / 190058 - BOLT SET, .312-24 X 1.25 12PT SILVER PLT [See Item #323] (CERTIFIED)

SE120-004-35 - BOLT SET

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)</u>
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Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

325 159 10 40 Certificate of Conformance: / 190059 - BOLT SET, .312-24 X 1.75 12PT SILVER PLT [mc107046.tif] (CERTIFIED)

326 159 10 40 Material Certification: / 190059 - BOLT SET, .312-24 X 1.75 12PT SILVER PLT [See Item #325] (CERTIFIED)

SE120-004-36 - COPPER GASKET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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327 159 10 50 Certificate of Conformance: / 191011 - GASKET, COPPER, 3.01 I.D. [mc107044.tif] (CERTIFIED)

328 159 10 50 Material Certification: / 191011 - GASKET, COPPER, 3.01 I.D. [See Item #327] (CERTIFIED)

SE120-004-37 - COPPER GASKET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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329 159 10 60 Certificate of Conformance: / 191013 - GASKET, COPPER, 4.01 I.D. [mc107043.tif] (CERTIFIED)

330 159 10 60 Material Certification: / 191013 - GASKET, COPPER, 4.01 I.D. [See Item #329] (CERTIFIED)

SE120-004-38 - COPPER GASKET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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331 159 10 70 Material Certification: / 191017 - GASKET, COPPER, 6.01 I.D. [mc107042.tif] (CERTIFIED)

332 159 10 70 Certificate of Conformance: / 191017 - GASKET, COPPER, 6.01 I.D. [See Item #331] (CERTIFIED)

SE120-004-39 - COPPER GASKET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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333 159 10 80 Material Certification: / 191019 - GASKET, COPPER, 8.01 I.D. [mc107041.tif] (CERTIFIED)

334 159 10 80 Certificate of Conformance: / 191019 - GASKET, COPPER, 8.01 I.D. [See Item #333] (CERTIFIED)

SE120-004-40 - COPPER GASKET

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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335 159 10 90 Material Certification: / 191094 - GASKET, COPPER, 10.00 I.D. [mc107039.tif] (CERTIFIED)

336 159 10 90 Certificate of Conformance: / 191094 - GASKET, COPPER, 10.00 I.D. [See Item #335] (CERTIFIED)

SE120-004-42 - VITON O-RING

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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337 108 10 10 Material Certification: / SE120-004-42 - O-RING, VITON [mc106890.tif] (CERTIFIED)

338 108 10 10 Certificate of Conformance: / SE120-004-42 - O-RING, VITON [See Item #337] (CERTIFIED)

339 122 10 10 Certificate of Conformance: / SE120-004-42 - O-RING, VITON [See Item #337] (CERTIFIED)

SE120-004-44 - O-RING, VITON

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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340 133 10 10 Certificate of Conformance: / SE120-004-44 - O-RING, VITON [mc106822.tif] (CERTIFIED)

341 152 10 10 Certificate of Conformance: / SE120-004-44 - O-RING, VITON [See Item #340] (CERTIFIED)

SE120-004-47 - SEAL RETAINER SCREW

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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342 101 10 10 Material Certification: / 98164A133 - BHCS 316SST #8-32UNC-3A X 0.25" LONG [mc105456.tif] (CERTIFIED)

343 112 10 10 Material Certification: / 98164A133 - BHCS 316SST #8-32UNC-3A X 0.25" LONG [See Item #342] (CERTIFIED)

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

344	123	10	10	Material Certification: / 98164A133 - BHCS 316SST #8-32UNC-3A X 0.25" LONG [See Item #342] (CERTIFIED)
345	134	10	10	Material Certification: / 98164A133 - BHCS 316SST #8-32UNC-3A X 0.25" LONG [See Item #342] (CERTIFIED)
346	153	10	10	Material Certification: / 98164A133 - BHCS 316SST #8-32UNC-3A X 0.25" LONG [See Item #342] (CERTIFIED)

SE120-004-48 - VVSA CLEVIS BOSS "A"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
347	284	10	10	Material Certification: / INCONEL 625_255 - BAR,ROUND,NICKEL ALLOY 2.0" DIA [mc111533.tif] (900257)
348	284	30		Inspection Data Checklist: 1 steps
349	290	10	10	Material Certification: / INCONEL 625_255 - BAR,ROUND,NICKEL ALLOY 2.0" DIA [mc111533.tif] (900257)
350	290	30		Inspection Data Checklist: 1 steps

SE120-004-49 - VVSA CLEVIS BOSS "B"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
351	285	10	10	Material Certification: / INCONEL 625_255 - BAR,ROUND,NICKEL ALLOY 2.0" DIA [See Item #347] (900257)
352	285	30		Inspection Data Checklist: 1 steps

SE120-004-50 - VVSA CLEVIS BOSS "C"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
353	286	10	10	Material Certification: / INCONEL 625_255 - BAR,ROUND,NICKEL ALLOY 2.0" DIA [See Item #347] (900257)
354	286	30		Inspection Data Checklist: 1 steps

SE120-004-51 - VVSA CLEVIS BOSS "D"

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
355	287	10	10	Material Certification: / INCONEL 625_255 - BAR,ROUND,NICKEL ALLOY 2.0" DIA [See Item #347] (900257)
356	287	30		Inspection Data Checklist: 1 steps

SE120-004-52 - O-RING, METAL, HELICOFLEX Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
357	99	10		Certificate of Conformance: CUSTOMER SUPPLIED MATERIAL []

SE120-004-55 - NUT, 1/2-20 UNF, GRADE 8

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
358	254	10	20	Material Certification: / SE120-004-55 - NUT, 1/2-20 UNF, GRADE 8 [mc110063.tif] (744072 & E28031 & HT9618EY)

SE120-004-57 - BOLT, 12 PT, 1/2-20

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
359	254	10	40	Material Certification: / SE120-004-57 - BOLT, 12 PT, 1/2-20 UNF X 2.00, INCO 718 [See Item #358] (744072 & E28031 & HT9618EY)

SE122-004-20A BLANK - DOME A FLAT BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
360	4	10	10	Material Certification: / SE120-004-20A BLANK - VVSA DOME A FLAT BLANK MATERIAL [mc108864.tif] (2650 4 6771)

SE122-004-20B BLANK - DOME B FLAT BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

361 5 10 10 Material Certification: / SE120-004-20B BLANK - VVSA DOME B FLAT BLANK MATERIAL [See Item #360] (2650 4 6771)

SE122-018-1A BLANK - PORT 12A FLANGE BLANK Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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362	104	10		Material Certification: [mc109789.tif]
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363	282	10		Material Certification: [See Item #362]
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364	282	50		Certification: [mc111911.pdf]
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SE122-018-1A - PORT 12A FLANGE Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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365	2	116		Certificate of Conformance: [mc115511.tif]
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366	2	118		Inspection Data Checklist: 6 steps
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367	104	10	10	Material Certification: / SE122-018-1A BLANK - NCSX VVSA PORT 12A FLANGE BLANK [mc109789.tif] (65H7)
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368	104	20		Inspection Data Checklist: 5 steps
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369	282	10	10	Material Certification: / SE122-018-1A BLANK - NCSX VVSA PORT 12A FLANGE BLANK [mc111004.tif] (818102)
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370	282	20		Inspection Data Checklist: 5 steps
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SE122-018-1B BLANK - PORT 12B FLANGE BLANK Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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371	115	10		Material Certification: [See Item #362]
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372	126	10	10	Material Certification: / SE122-049-1A BLANK - NCSX VVSA PORT 4A FLANGE BLANK [See Item #367] (65H7)
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373	145	10	10	Material Certification: / SE122-049-1B BLANK - NCSX VVSA PORT 4B FLANGE BLANK [See Item #367] (65H7)
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374	283	10		Material Certification: [mc111004.tif]
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375	315	10		Material Certification: [mc115502.tif]
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SE122-018-1B - PORT 12B FLANGE Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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376	3	116		Certificate of Conformance: [mc115510.tif]
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377	3	118		Inspection Data Checklist: 6 steps
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378	314	118		Inspection Data Checklist: 6 steps
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379	315	20		Inspection Data Checklist: 5 steps
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SE122-019-1A BLANK - PORT 12A SEAL RETAINER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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380	107	10	10	Material Certification: / SE122-019-1A BLANK - PORT 12A SEAL RETAINER BLANK [mc110471.tif] (604254-2B)
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SE122-019-1A - PORT 12A SEAL RETAINER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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381	107	20		Inspection Data Checklist: 8 steps
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382	107	30		Inspection Data Checklist: 1 steps
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SE122-019-1B BLANK - PORT 12B SEAL RETAINER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

383 120 10 10 Material Certification: /SE122-019-1B BLANK - PORT 12B SEAL RETAINER BLANK [See Item #380] (604254-2B)

SE122-019-1B - PORT 12B SEAL RETAINER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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384	120	20		Inspection Data Checklist: 8 steps
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385	120	30		Inspection Data Checklist: 1 steps
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SE122-049-1A BLANK - PORT 4A FLANGE BLANK Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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386	126	10		Material Certification: [See Item #362]
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SE122-049-1A - PORT 4A FLANGE Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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387	8	116		Certificate of Conformance: [mc115512.tif]
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388	8	118		Inspection Data Checklist: 5 steps
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389	126	20		Inspection Data Checklist: 6 steps
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390	126	50		Certification: [mc111897.pdf]
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SE122-049-1B BLANK - PORT 4B FLANGE BLANK Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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391	145	10		Material Certification: [See Item #362]
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SE122-049-1B - PORT 4B FLANGE Qty: 1

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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392	9	116		Certificate of Conformance: [mc115768.tif]
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393	9	118		Inspection Data Checklist: 5 steps
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394	145	20		Inspection Data Checklist: 6 steps
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395	145	50		Certification: [See Item #390]
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SE122-057-1A BLANK - PORT 4A SEAL RETAINER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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396	131	10	10	Material Certification: /SE122-057-1A BLANK - PORT 4A SEAL RETAINER BLANK [See Item #380] (604254-2B)
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397	150	10	10	Material Certification: /SE122-057-1B BLANK - PORT 4B SEAL RETAINER BLANK [See Item #380] (604254-2B)
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SE122-057-1A - PORT 4A SEAL RETAINER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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398	131	20		Inspection Data Checklist: 8 steps
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399	131	30		Inspection Data Checklist: 1 steps
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400	292	10		Inspection Data Checklist: 1 steps
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SE122-057-1B - PORT 4B SEAL RETAINER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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401	150	20		Inspection Data Checklist: 8 steps
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Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

402	150	30	Inspection Data Checklist: 1 steps
403	293	10	Inspection Data Checklist: 1 steps

SE122-072-1 - PORT NB FLANGE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
404	82	20		Inspection Data Checklist: 8 steps

SE122-072-1BLANK - PORT NB WELD FLANGE BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
405	82	10	10	Material Certification: / INCONEL 625_7 - PLATE,NICKEL ALLOY 1.5" THK [mc112435.tif] (2650-5-6861)

SE122-104-1A BLANK - PORT 12A COVER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
406	106	10	10	Material Certification: / SE122-104-1A BLANK - PORT 12A COVER BLANK [mc109665.tif] (818102)
407	117	10	10	Material Certification: / SE122-104-1B BLANK - PORT 12B COVER BLANK [See Item #406] (818102)
408	294	10	10	Material Certification: / SE122-104-1A BLANK - PORT 12A COVER BLANK [mc114108.tif] (69R8)

SE122-104-1A - PORT 12A COVER ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
409	294	20		Inspection Data Checklist: 12 steps
410	294	22		Inspection Data Checklist: 1 steps
411	294	50		Inspection Data Checklist: 1 steps

SE122-104-1B - PORT 12B COVER ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
412	117	20		Inspection Data Checklist: 12 steps
413	117	50		Inspection Data Checklist: 3 steps

SE122-149-1A BLANK - PORT 4A COVER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
414	128	10	10	Material Certification: / SE122-149-1A BLANK - PORT 4A COVER BLANK [mc109667.tif] (65X9)

SE122-149-1A - PORT 4A COVER ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
415	128	20		Inspection Data Checklist: 13 steps
416	128	50		Inspection Data Checklist: 3 steps

SE122-149-1B BLANK - PORT 4B COVER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
417	147	10	10	Material Certification: / SE122-149-1B BLANK - PORT 4A COVER BLANK [See Item #414] (65X9)

SE122-149-1B - PORT 4B COVER ASSY

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
418	147	20		Inspection Data Checklist: 12 steps

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

419 147 50 Inspection Data Checklist: 3 steps

SE122-172-1 - PORT NB COVER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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420	84	10	10	Material Certification: / INCONEL 625_9 - PLATE,NICKEL ALLOY 1.75" THK [mc110168.tif] (51185/L04)
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421	84	20		Inspection Data Checklist: 3 steps
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422	84	50		Inspection Data Checklist: 7 steps
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SE122-173-1 - PORT NB SEAL RETAINER

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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423	98	20		Inspection Data Checklist: 6 steps
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SE122-173-1BLANK - NB SEAL RETAINER BLANK

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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424	98	10	10	Material Certification: / SE122-173-1BLANK - PORT NB SEAL RETAINER BLANK [mc110068.tif] (NX4533AG)
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SE122-174-1 - HELICOFLEX SEAL

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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425	280	10		Inspection Data Checklist: 1 steps
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SE122-174-2 - HELICOFLEX SEAL

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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426	281	10		Inspection Data Checklist: 1 steps
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WELD WIRE

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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427	0	10	20	Material Certification: TRACE ID: 29110 / INCONEL625_035_GMAW - WELD WIRE/GMAW, .035 DIA [mc068650.tif] (VX3417AK / XB8273)
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428	0	10	20	Material Certification: TRACE ID: 123160 / INCONEL625_035_GMAW - WELD WIRE/GMAW, .035 DIA [mc109152.tif] (VX3417AK / XB8273)
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429	0	10	50	Material Certification: Trace ID: 119209 / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA [mc107550.tif] (34932 / AB8051 / AV8128)
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430	0	10	50	Material Certification: TRACE ID: 94881 / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA [mc095279.pdf] (34932 / AB8051 / AV8128)
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431	0	10	50	Material Certification: Trace ID: 94240 / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA [mc094944.pdf] (34932 / AB8051 / AV8128)
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432	0	10	60	Material Certification: Trace ID: 117513 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA [mc106871.tif] (CV8061 / K48859)
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433	0	10	60	Material Certification: TRACE ID: 94241 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA [mc094945.pdf] (CV8061 / K48859)
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434	0	10	60	Material Certification: TRACE ID: 119299 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA [mc107551.tif] (CV8061 / K48859)
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435	0	10	60	Material Certification: TRACE ID: 121416 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA [mc108429.tif] (CV8061 / K48859)
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Z_NCR

Item#	Sub	Op	Pc	Document Type: Document Description / Material - Material Description [File Name] (Heat Lot)
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436				NCR19149: [mtm nc19149 disposition.pdf]
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437				NCR19176: [same as 19142]
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Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PORTS - VVSA PORT EXTENSIONS

438	NCR19161: [See Item #437]
439	NCR19164: [See Item #437]
440	NCR19142: [nc19060_063_142_161_164_176.pdf]

CERTIFICATE OF CONFORMANCE

Page: 1
Date: 09/16/06
User ID: UPCHURC#

TO: PRINCETON PLASMA PHYSICS LAB

DATE: 09/16/2006

ATTENTION: Receiving Department

Seller certifies that:

Part Number: VVSA PORTS

Purchase Order: S005243-F

Part Name: VVSA PORT EXTENSIONS

Workorder: 65678/9.0

Part Serial Number: N/A

Quantity: 1

1. These materials and/or parts were produced in conformance with all contractually applicable Government and/or Customer specifications referred in, or furnished with, the above Purchase Order.
2. The materials and/or parts furnished under the above Purchase Order were produced:
 - From materials furnished by Customer for the production of such parts.
 - From materials for which the seller has available for examination chemical and/or physical test reports or other evidence of conformance to applicable specifications.
3. All processes required in the production of these part and/or materials are listed below and were performed by a facility or personnel approved or certified by the Seller and the customer when such approval or certification is required by contract.

Certifications are on file at this plant.

Other Requirements:

WSA PORT EXTENSIONS FOR LOT #3 MANUFACTURED PER P.O. REQUIREMENTS.

Signature: R.K. Upchurch Title: Inspector Date: 9-16-06



MDC VACUUM PRODUCTS CORP

23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 14, 2005

SUBJECT: CERTIFICATION OF PO# P05-01402

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

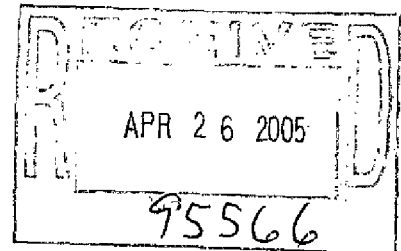
MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522



1-12
B. J.



4/26/05

Dedicated to Quality and Service



MDC VACUUM PRODUCTS CORP

23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL AND MACHINE, INC.

ATTENTION: KATY DEBERNARDI

DATE: 6/8/05

**SUBJECT: CERTIFICATION OF PO# P05-01402
MDC ORDER CONFIRMATION NUMBER: M390352**

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

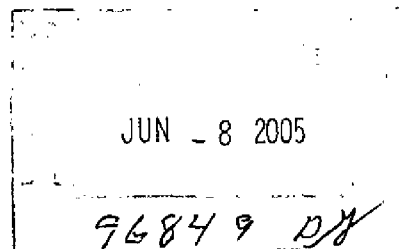
MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation JUN 15 2005

e-mail: mschultz@mdcvacuum.com

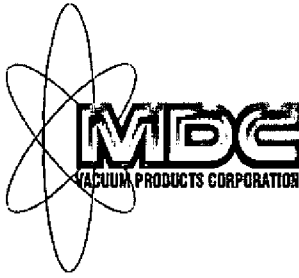
phone: 510 265 3500



Lina 13-18

Dedicated to Quality and Service

Form 10-13, Rev B



MDC VACUUM PRODUCTS CORP

23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522

4/6/05
95013
1-9
B.A.

Dedicated to Quality and Service



4/6/05

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: Frank Malinowski

E-Mail: fmalinowski@pppl.gov

Telephone: 609-243-2441

Fax: 609-243-2021

Part: /SE122-112-3 (CF BLANK FLANGE)

Drawing ID: SE122-113

Revision: 0

Customer P.O.: S005243-F

Serial No./Qty: N/A

Reported By: DOUG MCCORKLE

E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433

Fax: 317-634-9420

Problem: Magnetic Permeability requirement 1.02 Max

Checks > 1.05, but < 1.1

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____



MDC VACUUM PRODUCTS CORP

23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

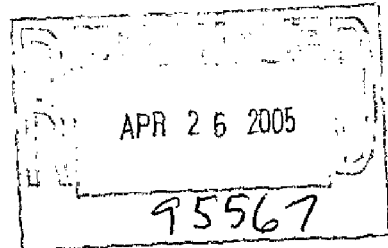
MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522



83-87
B.I.

Dedicated to Quality and Service





MDC VACUUM PRODUCTS CORP
23842 Cabot Blvd., Hayward CA 94545-1651
Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817
E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>
HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

MIKE SCHULTZ
Shipping/Receiving Supervisor
MDC Vacuum Product Corporation
e-mail: tcasaray@mdevacuum.com
Phone: (510) 265-3500 x 3522

4/4/05
95042
112-141
B.2

Dedicated to Quality and Service



4/6/05



Trinos Vakuum-Systeme GmbH · Anna-Vandenhoeck-Ring 44 · 37081 Göttingen

Major Tool & Machine, Inc.
 1458 E. 19th Street
 Indianapolis, IN 46218
 USA

Certificate / Werksbescheinigung DIN EN ISO 10204 2.2:

Item: 33 x 480 FBL 100-G-E, Weld Flange CF 6", thread
Bezeichnung:

We hereby confirm that the above described items are from:
Hiermit bestätigen wir Ihnen, dass die Teile aus:

Order Number: P.O. 5-04027 , AB-05-02356, RG 05-04280
Auftrags-Nr.:

Date: ----- / 2. Aug. 2005 / 17. Aug 2005
Datum:

Material: 316 LN ESR , CERN SPECS
Werkstoff:

Supplier ID: K10386
Lieferanten Nr:

Batch ID : 920 183
Chargen Nr:

Other Specs: Magnetic permeability better than 1.01 µp
Andere Kennziffer:

Göttingen, 19.Aug.2005

AUG 29 2005 MTM
017

RECEIVED

AUG 24 2005

999553H

lines 1-33

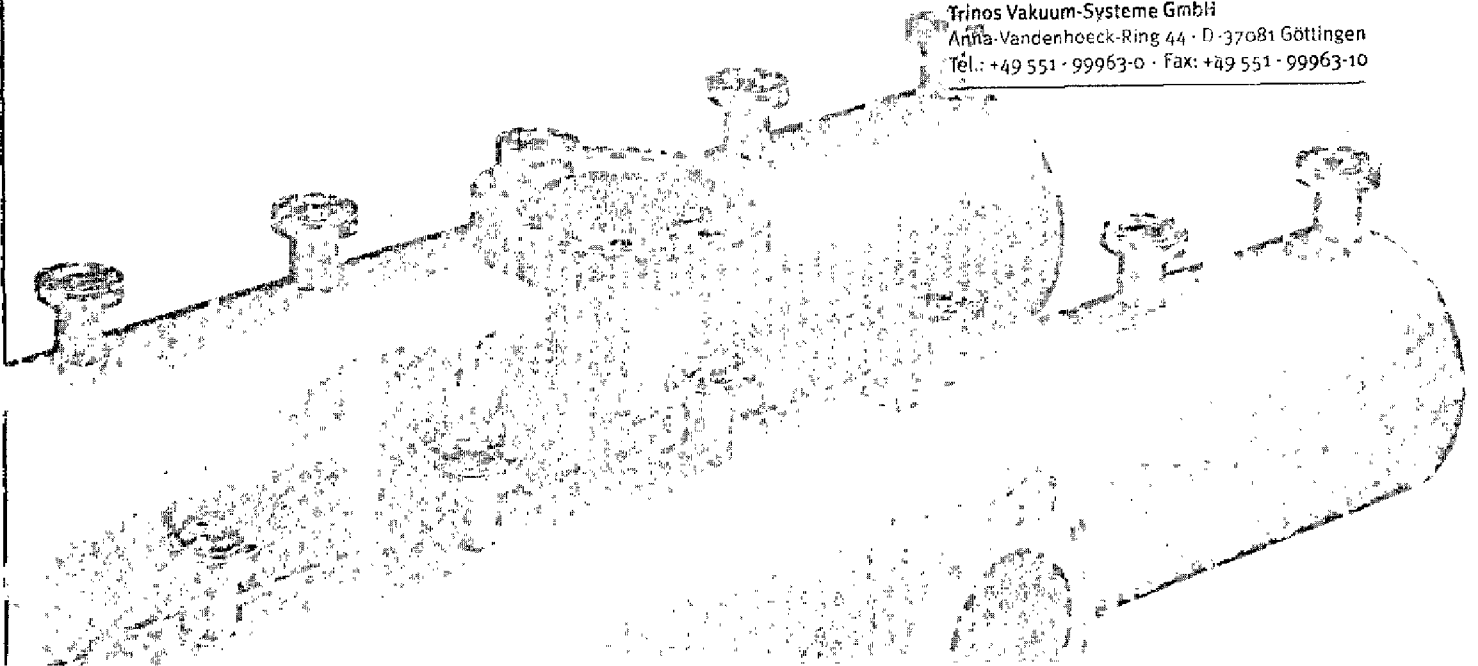
Geschäftsführende Gesellschafter: Betriebswirt Peter Spreitz Dipl.-Phys. Marcus Weinhausen	Bankverbindungen: Sparkasse Göttingen BLZ: 260 500 01 Konto-Nr670 59 41 Kreis-Sparkasse Northeim BLZ: 262 500 01 Konto-Nr.: 6 36 36 Dresdner Bank BLZ 260 800 24 Konto-Nr.: 9 238 232 00	Ust.-IDNr.: DE 188 544 351 Amtsgericht Göttingen HRB 3008
--	---	--

Erzeugnisform Product		Stab, rund, geschmiedet, geschält Round bars, forged, peeled									
Werkstoff / Quality		1.4429 X2CrNiMoN17-13-3 ESU									
Anforderungen Requirements		Kundenbestellung / customer order 1.4429 X 2 CrNiMoN 17-13-3 ESU ,DIN 17440 09/96 1.4429 X2CrNiMoN17-13-3 "ESU" ,SL-LV 4429ESU 01/05									
Besichtigung und Maßnachprüfung Inspection and dimensional control Inspection et contrôle de dimension ohne Beanstandung without objection				Erschmelzung/Nachbehandlung Melting process/Secondary refining Mode d'élaboration/traitement ultérieur ESU				Verwacklungsprüfung (spektralanalytisch) Identification test (spectral-analysis) examination of identification (analyse spectrale) ohne Beanstandung without objection			
Pos. Item	Anzahl Quantity	Abmessung Dimension						Gewicht kg Weight kg	Schmelz-Nr. Heat-No.		
1	2	155 mm rd. x 4880 - 5510 mm						1586	920183		
Schmelz- Heat %	C	Si	Mn	P	S	Cr	Mo	Ni	N2	Co	
920183	0,018	0,20	1,62	0,031	0,002	16,61	2,51	12,00	0,2180	0,046	
Der N2-Gehalt wurde toleriert. / The N2 content was tolerated.											
Wärmebehandlungszustand Condition of heat treatment		Lösungsgeglüht / solution annealed 1050°C 1h Wasser/water									
Probe-Nr. Test-No.	Lage Loc.	Temp. °C	Rp0,2 N/mm ²	Rp1,0 N/mm ²	Rm N/mm ²	A5 %	Z %	Kerbschlagarbeit Impact value J	Probenform Shape of test piece Charpy-V	Härte HB Hardness	
Soll/Req.	L	RT	>=300	>=330	>=600	>=40		>=85	RT		
614J1	L	RT	371	427	689	49	82	296 298 298	RT	164-167	
Stückanalyse / Check analysis:											
C	Si	Mn	P	S	Cr	Mo	Ni	N2	Co	(N2 wurde toleriert/ N2 was tolerated)	
0,015	0,19	1,62	0,026	0,001	16,45	2,52	12,20	0,2150	0,036	N2 was tolerated)	
Korngröße nach / Grain size acc. ASTM E 112: 4											
Reinheitsgrad nach / Degree of purity acc. DIN 50602: K1 = 1,30											
Reinheitsgrad nach / Degree of purity acc. ASTM E 45, method D:											
Dünn/thin - Type A: 0,5 Type B: 0,6 Type C: 0,4 Type D: 1,0											
Dick/heavy - Type A: 0,5 Type B: 0,5 Type C: 0,4 Type D: 0,5											
Gefüge: / Microstructure: Austenit / austenitic											
Permeabilität / Permeability: max. 1,007 µr											
Die US-Prüfung nach SEP 1921 - 12/84, Prüfgruppe 3, Größenklasse D, Häufigkeitsklasse d wurde durchgeführt: ohne Beanstandung The UT examination acc. SEP 1921 - 12/84, examination class 3, dimension class D, frequency class d was done: without objection											
Anlagen End. Annexe US-Zeugnis / UT cert.						Lieu et date 21.07.2005			Abnahmebeauftragter Third Party Inspector Inspecteur de réception Langer		
Das Zeugnis wurde maschinell erstellt und ist auch ohne Unterschrift gültig.						This certificate was generated by data system it must not be signed for validity as well. Ce certificat a été établi sur système informatique et est valable sans signature aussi.					

I, the undersigned, exporter of the goods covered by this document declare that except where otherwise indicated, the goods meet the conditions to obtain originating status in preferential trade with: United States of America
And that the country of origin of the goods is: THE EUROPEAN COMMUNITY

Göttingen, 17.08.2005, Anne Schulte
Place, Date, full name signature, official stamp

Anne Schulte





Trinos Vakuum-Systeme GmbH · Anne-Vanderhoeck-Ring 44 · 37081 Göttingen

Major Tool & Machine, Inc.
1458 E. 19th Street
Indianapolis, IN 46218
USA

Certificate / Werksbescheinigung DIN EN ISO 10204 2.2:

Item: 12 x 480 FBL 160-G-E, Weld Flange CF 8", thread
Bezeichnung:

We hereby confirm that the above described items are from:
Hiermit bestätigen wir Ihnen, dass die Teile aus:

Order Number: P.O. 5-04027 , AB-05-02356, RG 05-04280
Auftrags-Nr.:

Date: ----- / 2. Aug. 2005 / 17. Aug 2005
Datum:

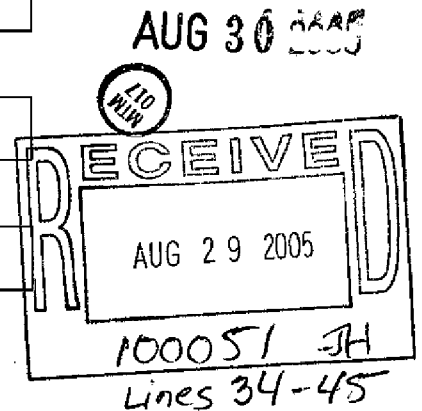
Material: 316 LN ESR , CERN SPECS
Werkstoff:

Supplier ID: K10386
Lieferanten Nr.:

Batch ID : 920 135
Chargen Nr.:

Other Specs: Magnetic permeability better than 1.01 mμ
Andere Kennziffer:

Göttingen, 19.Aug.2005



Geschäftsführende Gesellschafter:
Betriebswirt Peter Spreitz
Dipl.-Phys. Marcus Weinhausen

Bankverbindungen:

Sparkasse Göttingen

Kreis-Sparkasse Northeim

Dresdner Bank

BLZ: 260 500 01

BLZ: 262 500 01

BLZ 260 800 24

Konto-Nr670 59 41

Konto-Nr.: 6 36 36

Konto-Nr.: 9 238 232 00

Ust.-IDNr.:

DE 188 544 351

Amtsgericht Göttingen

HRB 3008

POS-04027

Erzeugnisform Product		Stab, rund, geschmiedet, geschält Round bars, forged, peeled									
Werkstoff / Quality		1.4429 X2CrNiMoN17-13-3 ESU									
Anforderungen Requirements		Kundenbestellung / customer order 1.4429 X 2 CrNiMoN 17-13- 3 ESU ,DIN 17440 09/98									
Besichtigung und Maßnacheprüfung Inspection and dimensional control Inspection et contrôle de dimension ohne Beanstandung without objection		Erschmelzung/Nachbehandlung Melting process/secondary refining Mode d'élaboration/traitement ultérieur ESU		Verwechslungsprüfung (spektroskopisch) Identification test (spectral-analyse) examen d'identification (analyse spectrale) ohne Beanstandung without objection							
Pos. Item	Anzahl Quantity	Abmessung Dimension		Gewicht kg Weight kg	Schmelz-Nr. Heat-No.						
3	4	210 mm rd. x 3200 - 3546 mm		3756	920135						
Schmelz- Heat %	C	Si	Mn	P	S	Cr	Mo	Ni	N2	Co	
920135	0,017	0,21	1,59	0,027	0,003	16,81	2,56	12,10	0,1510	0,051	
Wärmebehandlungszustand Condition of heat treatment Traitement thermique		Lösungsgelüht solution annealed 1050°C Wasser/water									
Probe-Nr. Test-No.	Lage Loc.	Temp. °C	Rp0,2 N/mm ²	Rp1,0 N/mm ²	Rm N/mm ²	A5 %	Z %	Kerbschlagarbeit Impact value J	Prübanform Shape of test piece Charpy-V		Härte HB Hardness
Soll/Req.	Q	RT	>=295	>=330	>=580	>=30		>=55	RT		
430T1	Q	RT	355	446	664	45	75	296 296	294 RT		177-181
430T2	Q	RT	349	442	658	45	74	298 295	297 RT		
Korngröße nach ASTM E 112 : 4 Grain size acc. ASTM E 112: 4											
Reinheitssgrad nach DIN 50602 : K1 = 1,01 Degree of purity acc. DIN 50602: K1 = 1.01											
Permeabilität: 1,006 G/Oe Permeability : 1.006 G/Oe											
Die US-Prüfung nach SEP 1921 - 12/84, Prüfgruppe 3, Größenklasse D, Häufigkeiteklasse d wurde durchgeführt: ohne Beanstandung The UT-examination acc. SEP 1921 - 12/84, examination class 3, dimension class D, frequency class d was done: without objection											
Anlagen End Annex	[Redacted]				Fluss und Date Lieu et date 05 11 2004		Der Werkstoffverantwortliche Werkstoffprüfer L'expert de l'usine Langer				
Das Zeugnis wurde maschinell erstellt und ist auch ohne Unterschrift gültig.						This certificate was generated by data system it must not be signed for validity as well. Ce certificat a été établi sur système informatique et est valable sans signature aussi.					



AUG 30 2005

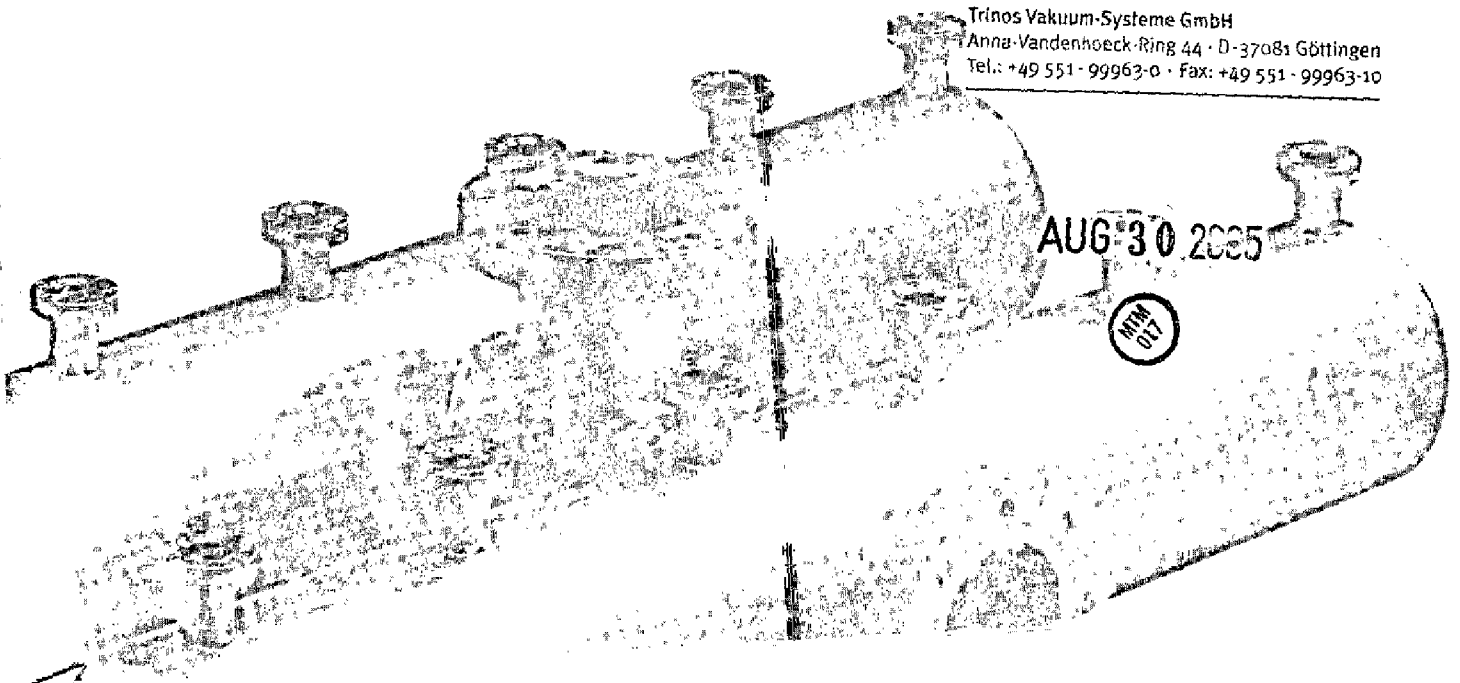


I, the undersigned, exporter of the goods covered by this document declare that except where otherwise indicated, the goods meet the conditions to obtain originating status in preferential trade with: United States of America
And that the country of origin of the goods is: THE EUROPEAN COMMUNITY

Göttingen, 19.08.2005, Anne Schütze Anne Schütze
(Place, date, full name signature, official stamp)



Trinos Vakuum-Systeme GmbH
Anna-Vandenhoeck-Ring 44 · D-37081 Göttingen
Tel.: +49 551-99963-0 · Fax: +49 551-99963-10





Trinos Vakuum-Systeme GmbH · Anna-Vandenhoeck-Ring 44 · 37081 Göttingen

Major Tool & Machine, Inc.
 1458 E. 19th Street
 Indianapolis, IN 46218
 USA

Certificate / Werksbescheinigung DIN EN ISO 10204 2.2:

Item:
Bezeichnung: 6 x 480 FBL 200-G-E, Weld Flange CF 10", thread

We hereby confirm that the above described items are from:
Hiermit bestätigen wir Ihnen, dass die Teile aus:

Order Number:
Auftrags-Nr.: P.O. 5-04027 , AB-05-02356, RG 05-04280

Date:
Datum: ----- / 2. Aug. 2005 / 17. Aug 2005

Material:
Werkstoff: 316 LN ESR , CERN SPECS

Supplier ID:
Lieferanten Nr: K10386

Batch ID :
Chargen Nr: 920 014

Other Specs:
Andere Kennziffer: Magnetic permeability better than 1.01 mu

Göttingen, 19.Aug.2005

AUG 29 2005

RECEIVED
 AUG 25 2005
 99988 JH

Geschäftsführende Gesellschafter:	Bankverbindungen:	Ust.-IDNr. Lines 46-51
Betriebswirt Peter Spreitz	Sparkasse Göttingen	DE 188 544 351
Dipl.-Phys. Marcus Weinhausen	Kreis-Sparkasse Northeim	Amtsgericht Göttingen
	Dresdner Bank	HRB 3008
	BLZ: 260 500 01	
	Konto-Nr670 59 41	
	BLZ: 262 500 01	
	Konto-Nr.: 6 36 36	
	BLZ 260 800 24	
	Konto-Nr.: 9 238 232 00	




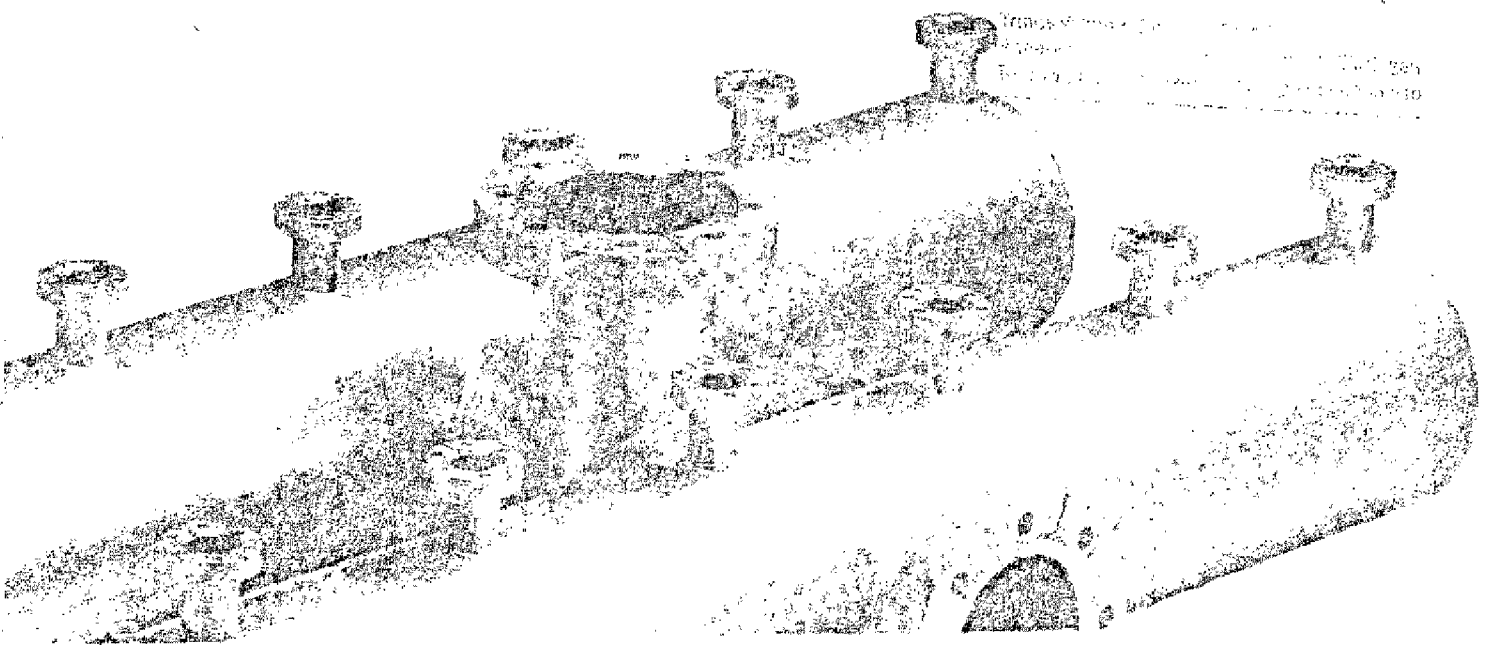
Erzeugnisform Produit		Stab, rund, geschmiedet, gedreht Round bars, forged, turned										
Werkstoff / Quality		1.4429 X2CrNiMoN17-13-3 ESU										
Anforderungen Requirements		Kundenbestellung / customer order 1.4429 X2CrNiMoN17-13-3 ESU, DIN 17440 - 09/96										
Besichtigung und Maßprüfung Inspection and dimensional control Inspection et contrôle de dimension ohne Beanstandung without objection				Erschmelzung/Nachbehandlung Melting process/secondary refining Mode d'élaboration/traitement ultérieur ESU				Verwechslungsprüfung (spektralanalytisch) Identification test (spectral analysis) examen de confirmation (analyse spectrale) ohne Beanstandung without objection				
Pos. Item	Anzahl Quantity	Abmessung Dimension								Gewicht kg Weight kg	Schmelz-Nr. Heat-No.	
2	1	310 mm rd. x 4215 mm								2550	920014	
Schmelze Heat %	C	Si	Mn	P	S	Cr	Mo	Ni	N2	Co		
920014	0,020	0,30	1,89	0,023	0,002	16,80	2,53	11,75	0,1400	0,061		
Ni-Gehalt wurde akzeptiert. / Ni content was accepted.												
Wärmebehandlungszustand Condition of heat treatment Traitement thermique		Lösungsgeglüht solution annealed 1050°C Wasser/water										
Probe-Nr. Test-No. Soll/Req.	Lage Loc.	Temp. °C	Rp0,2 N/mm²	Rp1,0 N/mm²	Rm N/mm²	A5 %	Z %	Kerbschlagarbeit Impact value J	Probentform Shape of test piece Charpy-V		Härte HB Hardness	
	Q	+20	>=295	>=330	>=580	>=30		>=55			+20°C	
983C1	Q	+20	340	370	610	40	75	294 294	298	+20°C	175-180	
<p>Korngröße nach ASTM E 112 : 3 Grain size acc. ASTM E 112: 3</p> <p>Reinheitsgrad nach DIN 50602 : K1 = 1,13 Degree of purity acc. DIN 50602: K1 = 1.13</p> <p>Permeabilität: 1,007 G/Oe Permeability : 1.007 G/Oe</p> <p>Die US-Prüfung nach SEP 1921 - 12/84, Prüfgruppe 3, Größenklasse D, Häufigkeitsklasse d wurde durchgeführt: ohne Beanstandung The UT-examination acc. SEP 1921 - 12/84, examination class 3, dimension class D, frequency class d was done: without objection</p>												
Anlagen Encl. Annexe				Lieu of date 20.04.2004				Der Werkstoffverständige Works-inspector L'expert de fusine Langer				
Das Zeugnis wurde maschinell erstellt und ist auch ohne Unterschrift gültig.						This certificate was generated by data system it must not be signed for validity as well. Ce certificat a été établi sur système informatique et est valable sans signature aussi.						

I, the undersigned, exporter of the goods covered by this document declare that except where otherwise indicated, the goods meet the conditions to obtain originating status in preferential trade with: United States of America
And that the country of origin of the goods is: THE EUROPEAN COMMUNITY

Gölküngen, 17.08.2005, Anne Schütze
(Place, Date, full name signature, official stamp)

Anne Schütze

TRINOS 
VAKUUM





Trinos Vakuum-Systeme GmbH · Anna-Vandenhoeck-Ring 44 · 37081 Göttingen

Major Tool & Machine, Inc.
1458 E. 19th Street
Indianapolis, IN 46218
USA

Certificate / Werksbescheinigung DIN EN ISO 10204 2.2:

Item:
Bezeichnung: 15 x 480 FBL 250-G-E, Weld Flange CF 12",thread

We hereby confirm that the above described items are from:
Hiermit bestätigen wir Ihnen, dass die Teile aus:

Order Number:
Auftrags-Nr.: P.O. 5-04027 , AB-05-02356, RG 05-04280

Date:
Datum: ----- / 2. Aug. 2005 / 17. Aug 2005

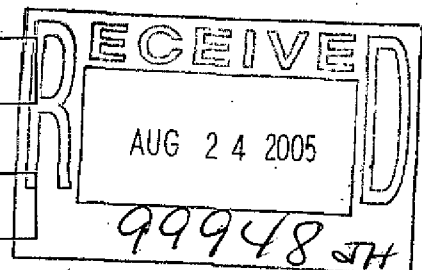
Material:
Werkstoff: 316 LN ESR , CERN SPECS

Supplier ID:
Lieferanten Nr: K10386

Batch ID :
Chargen Nr: 920 014

Other Specs:
Andere Kennziffer: Magnetic permeability better than 1.01 mμ

AUG 29 2005



Lines 52-66

Göttingen, 19.Aug.2005

Geschäftsführende Gesellschafter:	Bankverbindungen:		Ust.-IDNr.:
Betriebswirt Peter Spreitz	Sparkasse Göttingen	BLZ: 260 500 01	DE 188 544 351
Dipl.-Phys. Marcus Weinhausen	Kreis-Sparkasse Northeim	BLZ: 262 500 01	Amtsgericht Göttingen
	Dresdner Bank	BLZ 260 800 24	HRB 3008
		Konto-Nr: 670 59 41	
		Konto-Nr.: 6 36 36	
		Konto-Nr.: 9 238 232 00	



Erzeugnisform Product		Stab, rund, geschmiedet, gedreht Round bars, forged, turned									
Werkstoff / Quality		1.4429 X2CrNiMoN17-13-3 ESU									
Anforderungen Requirements		Kundenbestellung / customer order 1.4429 X2CrNiMoN17-13-3 ESU, DIN 17440 - 09/96									
Besichtigung und Maßprüfung Inspection and dimensional control Inspection et contrôle de dimension ohne Beanstandung without objection				Erschmelzung/Nachbehandlung Melting process/secondary refining Mode d'élaboration/traitement ultérieur RSU				Verwechslungsprüfung (Spektroskopisch) Identification test (spectral-analysis) examination d'identification (analyse spectrale) ohne Beanstandung without objection			
Pos. Nr.	Anzahl Quantity	Abmessung dimension							Gewicht kg Weight kg	Schmelz-Nr. Heat-No.	
2	1	310 mm rd. x 4215 mm							2550	920014	
Schmelze Heat %	C	Si	Mn	P	S	Cr	Mo	Ni	N2	Co	
920014	0,020	0,30	1,89	0,023	0,002	16,80	2,53	11,75	0,1400	0,061	
Ni-Gehalt wurde akzeptiert. / Ni content was accepted.											
Wärmebehandlungszustand Condition of heat treatment		Lösungsgeglüht solution annealed									
Traitement thermique		1050°C Wasser/water									
Probe-Nr. Test-No.	Lage Loc.	Temp. °C	Rp0,2 N/mm²	Rp1,0 N/mm²	Rm N/mm²	A5 %	Z %	Kerbschlagarbeit Impact value J	Probenform Shape of test piece Charpy-V	Härte HB Hardness	
Soll/Req.	Q	+20	>=295	>=330	>=580	>=30		>=55		+20°C	
383C1	Q	+20	340	370	610	40	75	294 294 298		+20°C 175-180	
<p>Korngröße nach ASTM E 112 : 3 Grain size acc. ASTM E 112: 3</p> <p>Reinheitsgrad nach DIN 50602 : K1 = 1,13 Degree of purity acc. DIN 50602: K1 = 1.13</p> <p>Permeabilität: 1,007 G/Oe Permeability : 1.007 G/Oe</p> <p>Die US-Prüfung nach SEP 1921 - 12/84, Prüfgruppe 3, Größenklasse D, Häufigkeitsklasse d wurde durchgeführt: ohne Beanstandung The UT-examination acc. SEP 1921 - 12/84, examination class 3, dimension class D, frequency class d was done: without objection</p>											
Anlagen Encl. Annexe		 Lieu et date 20.04.2004					Der Werksechterschließende Works-inspector L'expert de fusine Langer				
Das Zeugnis wurde maschinell erstellt und ist auch ohne Unterschrift gültig.						This certificate was generated by data system it must not be signed for validity as well. Ce certificat a été établi sur système informatique et est valable sans signature aussi.					



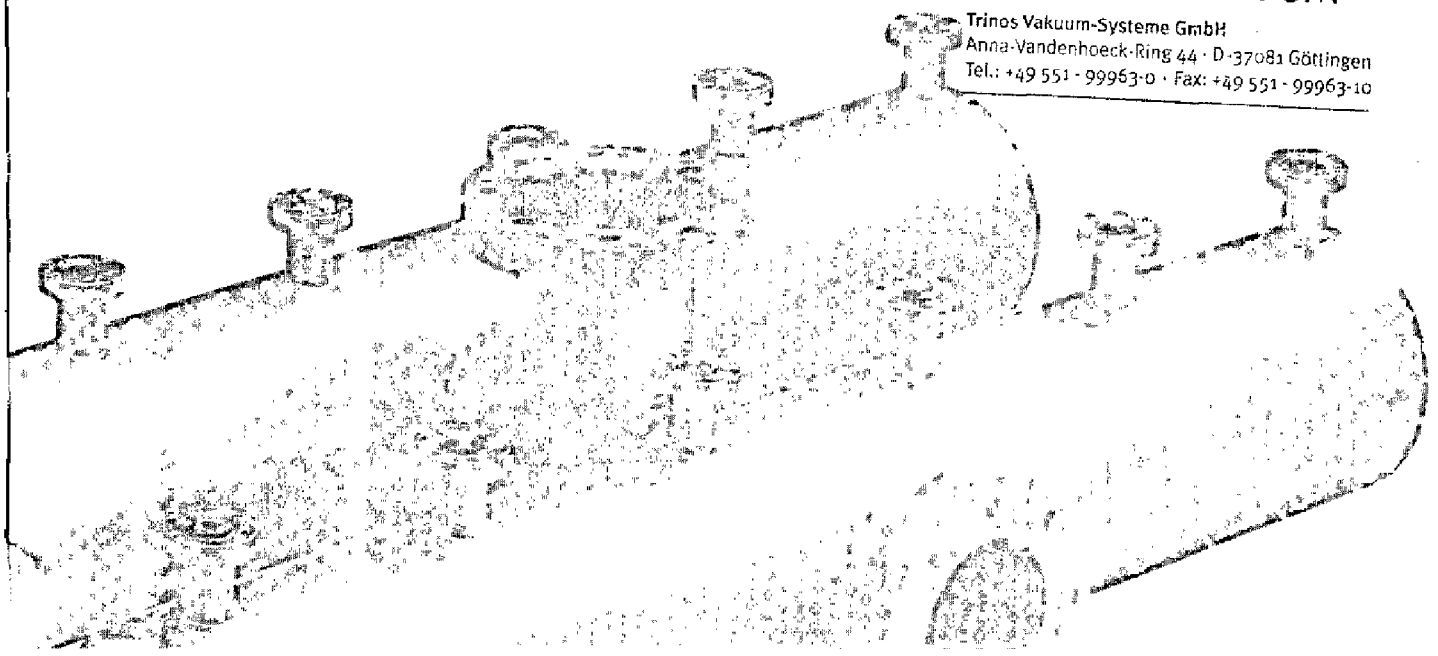
I, the undersigned, exporter of the goods covered by this document declare that except where otherwise indicated, the goods meet the conditions to obtain originating status in preferential trade with: United States of America
And that the country of origin of the goods is: THE EUROPEAN COMMUNITY

Göttingen, 17.08.2005, Anne Schürze
(Place, Date, full name signature, official stamp)

Anne Schürze



Trinos Vakuum-Systeme GmbH
Anna-Vandenhoeck-Ring 44 · D-37081 Göttingen
Tel.: +49 551-99963-0 · Fax: +49 551-99963-10



TRINOS VAKUUM

Trinos Vakuum-Systeme GmbH · Anna-Vanderhoeck-Ring 44 · 37081 Göttingen

Major Tool & Machine, Inc.
1458 E. 19th Street
Indianapolis, IN 46218
USA

Certificate / Werksbescheinigung DIN EN ISO 10204 2.2:

Item:
Bezeichnung: 6 x 480 FBL 080, Blank Flange CF 4 5/8"

We hereby confirm that the above described items are from:
Hiermit bestätigen wir Ihnen, dass die Teile aus:

Order Number:
Auftrags-Nr.: P.O. 5-04027 , AB-05-02356, RG 05-04280

Date:
Datum: ----- / 2. Aug. 2005 / 17. Aug 2005

Material:
Werkstoff: 316 LN ESR , CERN SPECS

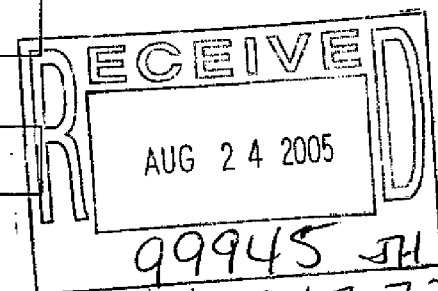
Supplier ID:
Lieferanten Nr.: K10386

Batch ID :
Chargen Nr.: 920 135

Other Specs:
Andere Kennziffer: Magnetic permeability better than 1.01 mμ

Göttingen, 19.Aug.2005

AUG 29 2005



Geschäftsführende Gesellschafter:
Betriebswirt Peter Spreitz
Dipl.-Phys. Marcus Weinhausen

Bankverbindungen:
Sparkasse Göttingen
Kreis-Sparkasse Northeim
Dresdner Bank

BLZ: 260 500 01
BLZ: 262 500 01
BLZ 260 800 24

Konto-Nr:670 59 41
Konto-Nr.: 6 36 36
Konto-Nr.: 9 238 232 00

Ust.-IDNr.:
DE 188 544 351
Amtsgericht Göttingen
HRB 3008



I, the undersigned, exporter of the goods covered by this document declare that except where otherwise indicated, the goods meet the conditions to obtain originating status in preferential trade with: United States of America

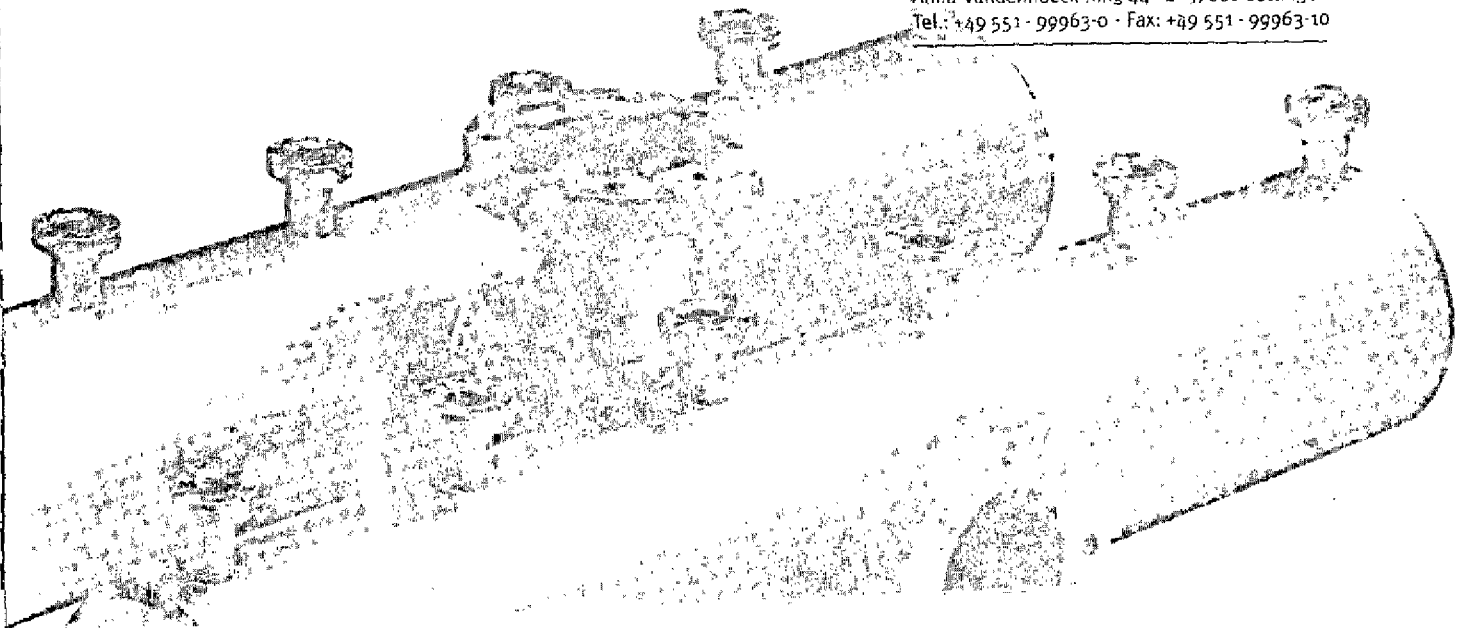
And that the country of origin of the goods is: THE EUROPEAN COMMUNITY

Göttingen, 17.08.2005, Anne Schulze
(Place, Date, full name signature, official stamp)

Anne Schulze



Trinos Vakuum-Systeme GmbH
Anna-Vandenhoeck-Ring 44 · D-37081 Göttingen
Tel.: +49 551-99963-0 · Fax: +49 551-99963-10





Erzeugnisform Product		Stab, rund, geschmiedet, geschält Round bars, forged, peeled									
Werkstoff / Quality		1.4429 X2CrNiMoN17-13-3 ESU									
Anforderungen Requirements		Kundenbestellung / customer order 1.4429 X 2 CrNiMoN 17-13-3 ESU ,DIN 17440 09/96									
Beschichtung und Maßnachprüfung Inspection and dimensional control Inspection et contrôle de dimension ohne Beanstandung without objection				Erschmelzung/Nachbelschmelzung Melting process/secondary refining Mode d'élaboration/traitement ultérieur ESU				Verwechslungsprüfung (spektralanalytisch) Identification test (spectral-analysis) examination of identification (analyse spectrale) ohne Beanstandung without objection			
Fos. Item	Anzahl Quantity	Abmessung Dimension							Gewicht kg Weight kg	Schmelz-Nr. Heat-No. II	
3	4	210 mm rd. x 3200 - 3546 mm							3756	920135	
Schmelz-Heat %	C	Si	Mn	P	S	Cu	Mo	Ni	N2	Co	
920135	0,017	0,21	1,59	0,027	0,003	16,81	2,56	12,10	0,1510	0,051	
Wärmebehandlungszustand Condition of heat treatment		Lösungsgeglüht solution annealed									
Traitement thermique		1050°C Wasser/water									
Probe-Nr. Test-No.	Lage Loc.	Temp. °C	Rp0,2 N/mm²	Rp1,0 N/mm²	Rm N/mm²	A5 %	Z %	Kerbschlagarbeit impact value J	Probenform Shape of test piece Charpy-V	Härte HB Hardness	
Soll/Req.	Q	RT	>=295	>=330	>=580	>=30		>=55	RT		
430T1	Q	RT	355	446	664	45	75	296	294	RT	
430T2	Q	RT	349	442	658	45	74	296	295	297	
<p>Korngröße nach ASTM E 112 : 4 Grain size acc. ASTM E 112: 4</p> <p>Reinheitsgrad nach DIN 50602 : K1 = 1,01 Degree of purity acc. DIN 50602: K1 = 1.01</p> <p>Permeabilität: 1,006 G/Oe Permeability : 1.006 G/Oe</p> <p>Die US-Prüfung nach SEP 1921 - 12/84, Prüfgruppe 3, Größenklasse D, Häufigkeitsklasse d wurde durchgeführt: ohne Beanstandung The UT-examination acc. SEP 1921 - 12/84, examination class 3, dimension class D, frequency class d was done: without objection</p>											
Anlagen End. Annexe		 Lieu et date 05.11.2004							Der Werkssachverständige Works-Inspector L'expert de fusine Langer		
Das Zeugnis wurde maschinell erstellt und ist auch ohne Unterschrift gültig.						This certificate was generated by data system II, must not be signed for validity as well. Ce certificat a été créé sur système informatique et est valable sans signature aussi.					

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Sales Order No Reference Commande Bestellungs Nr 449646001-0	Date Entered Date De Commande Bestelldatum 09/13/05	Customer Reference Reference Client Kundenbestelldaten P05-05307	Report No. Rapport No Zeugnis Nr 20050915019	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

CUSTOMER COPY

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 7 x 70 DOME SKIRT MATERIAL HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100
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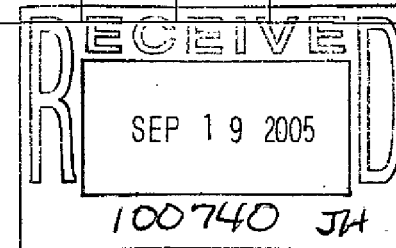
Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 4 PC	Quantity Shipped Quantite Expediee Liefermenge 4 PC
--	---	--

Heat Number Numero De Coque Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cr+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6771	0.213		0.021	3.4	0.2638	21.67	0.0581	4.8419	0.2641	8.53	59.82	0.0072	0.003	0.137	0.3317			BUTT END *02
2650 4 6771	3.3944	Ta -0.05	Zr	Bi	Se	La	Cr+Cu	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

9/15/2005

Amanda Aguirre



MC111853.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Sales Order No Reference Commande Bestellungs Nr 449646001-0	Date Entered Date De Commande Bestelldatum 09/13/05	Customer Reference Reference Client Kundenbestelldaten P05-05307	Report No. Rapport No Zeugnis Nr 20050915019	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4	<p align="center">HAYNES International</p>		<p align="center">CUSTOMER COPY</p> <p align="center">Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902</p>											
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA			Ship To • Destinataire • Bestelldmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 7 x 70 DOME SKIRT MATERIAL HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100													
Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantite Commandee Bestelldmenge 4 PC	Quantity Shipped Quantite Expediee Liefermenge 4 PC														
Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch					Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch								
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	%Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	%Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constraainte Spannung	Hours Heures Stunden	%Elong In % Allong EN % Dehnung	% RA	
125000 PSI		60500 PSI	54 %	(1)(A)														
Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre Certification Technician <i>Amanda Aguirre</i>					9/15/2005	(1) 2742656901												

MC111853.TIF2

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATION(S), MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

CUSTOMER COPY

Sales Order No Reference Commande Bestellungs Nr 449646001-0	Date Entered Date De Commande Bestelldatum 09/13/05	Customer Reference Reference Client Kundenbestelldaten P05-05307	Report No. Rapport No Zeugnis Nr 20050915019	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
--	--

Product Description • Description Produit • Material Beschreibung
0.375 x 7 x 70
DOME SKIRT MATERIAL
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E, S1000 1/3/2005, EN 10204 3.1, AS9100

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellemenge 4 PC	Quantity Shipped Quantité Expédiée Liefermenge 4 PC
--	---	--

Annealed Hardness Dureté Recuit Geglüht Haerte	Aged Hardness Dureté Vieilli Gealtert Haerte	Grain Size Grosseur De Grain Korngrösse							IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture														
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number	Attack Depth			Corrosion	Test Method		Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% Elong @ 15 Hrs										
96 HRB	(1)(A)	5.5									MPY																					

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

9/15/2005 (1) 2742656901

Amanda Aguirre

MC111853.TIF3

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATION(S), MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Sales Order No Reference Commande Bestellungs Nr 449646001-0	Date Entered Date De Commande Bestelldatum 09/13/05	Customer Reference Reference Client Kundenbestelldaten P05-05307	Report No. Rapport No Zeugnis Nr 20050915019	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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HAYNES
International

CUSTOMER COPY

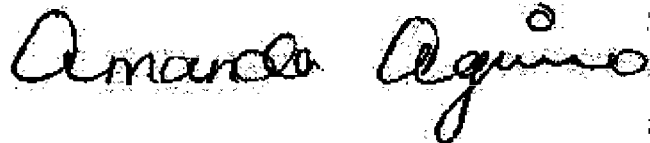
Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 7 x 70 DOME SKIRT MATERIAL HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100
Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 4 PC	Quantity Shipped Quantite Expediee Liefermenge 4 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE UNITED STATES.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656901 (4 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

9/15/2005



Quality Assurance Documentation for Part ID: DOME SKIRT - Item: 78

Workorder: 65678/9-0 Sub:288 Op:30

Part: DOME SKIRT - - DOME SKIRT

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI ROOT PASS WELD DSA		MFG		VISUAL	GOOD	358-D.M	933-D.L	A
(10)				CWI				11-03-05	11-03-05	
*		VWI EXTERIOR COVER PASS WELD DS		MFG		VISUAL	OK	358-D.M	933-D.L	A
(40)				CWI				11-04-05	11-04-05	
*		VWI INTERIOR COVER PASS WELD DS		MFG		VISUAL	OK	358-D.M	933-D.L	A
(50)				CWI				11-04-05	11-04-05	

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: DOME SKIRT - Item: 80

Workorder: 65678/9-0 Sub:289 Op:30

Part: DOME SKIRT - - DOME SKIRT

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*				MFG		VISUAL	ACCEPT PER CUSTOM	709-K.A	933-D.L		A
(10)		VWI ROOT PASS WELD DSB		CWI			DRAWINGS AND SPE	11-04-05	11-04-05		
*				MFG		VISUAL	OK	307-D.J	933-D.L		A
(40)		VWI EXTERIOR COVER PASS WELD DS		CWI				11-04-05	11-04-05		
*				MFG		VISUAL	OK	307-D.J	933-D.L		A
(50)		VWI INTERIOR COVER PASS WELD DSB		CWI				11-04-05	11-04-05		

Quality Assurance Documentation for Part ID: PORT DOME - Item: 81

Workorder: 65678/9-0 Sub:4 Op:22

Part: PORT DOME - -

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(10)		VWI ROOT PASS WELD DA		CWI				11-21-05	11-21-05	A
*				MFG		VISUAL	OK PER SPEC. CWI A	840-G.M	840-G.M	
(40)		VWI EXTERIOR COVER PASS WELD DA		CWI			CCEPTABLE	11-25-05	11-25-05	A
*				MFG		VISUAL	OK PER SPEC. CWI AC	840-G.M	840-G.M	
(50)		VWI INTERIOR COVER PASS WELD DA		CWI			CEPTABLE	11-25-05	11-25-05	A



COOPERHEAT

MQS

MO: 1497-1111

4959

10520 Chester Road
Woodlawn, Ohio 45215

CLIENT <i>Major Tool & Machine</i>		INTERPRETER/LEVEL <i>John Ballard II</i>		RADIOGRAPHER <i>John Ballard</i>		JOB NO. <i>13950291</i>		P.O. NO.		DATE <i>12/2/05</i>	
ISOTOPE/X-RAY <i>IR-192</i>	DIA. X LENS/VV <i>0.18" x 0.79"</i>	CURIES/MA <i>57</i>	FOCAL SPOT SIZE <i>.142"</i>	SFD <i>9"</i>	SOD <i>8.625"</i>	TIME <i>:25</i>	FILM PROCESSING <i>AUTO</i>	FILM TYPE <i>Kodak RA</i>	FILM TECHNIQUE <i>Double</i>	PB SCREENS <i>1010</i>	
WELD PROCESS <i>G-Taw</i>		MATERIAL SPEC. <i>Inconel 625</i>		MATERIAL DIAMETER <i>18"</i>	MATERIAL THICKNESS <i>.375"</i>	PENETRATOR <i>ASTM IB</i>	SHIM <i>N/A</i>	ACCEPTANCE STANDARD <i>ASME VIII, Div. 1, UW-51</i>			

DESCRIPTION
*65678/9.0/4124/818
Pont Dome A
Pg 1 of 2*

REMARKS
Densitometer 12105 cal due 2/21/06

FITTING, SEAM OR FITTING	FILM INTERVAL NUMBER	WELDER IDENTIFICATION	PENETRATOR		SLAG	POROSITY	POROSITY WITH TAIL	CRACK	LACK OF PEN	LACK OF FUSION	INTERNAL CONVEXITY	INTERNAL CONCAVITY	TUNGSTEN	MELT-THROUGH	BURN-THROUGH	CRATER-PIT	OXIDATION	INTERNAL UNDERCUT	EXTERNAL UNDERCUT	ALIGNED INDICATIONS	WELD CONTOUR	MIS-MATCH	FILM ARTIFACT	VISUAL CONCERNS	FILM DENSITY	SEE REMARKS	ACCEPT	REJECT
			SIZE	QUALITY LEVEL																								
<i>Circ</i>	<i>0-14</i>	<i>N/A</i>	<i>IB</i>	<i>1010"</i>																						<input checked="" type="checkbox"/>		

End View | Side View

SINGLE WALL

DOUBLE WALL

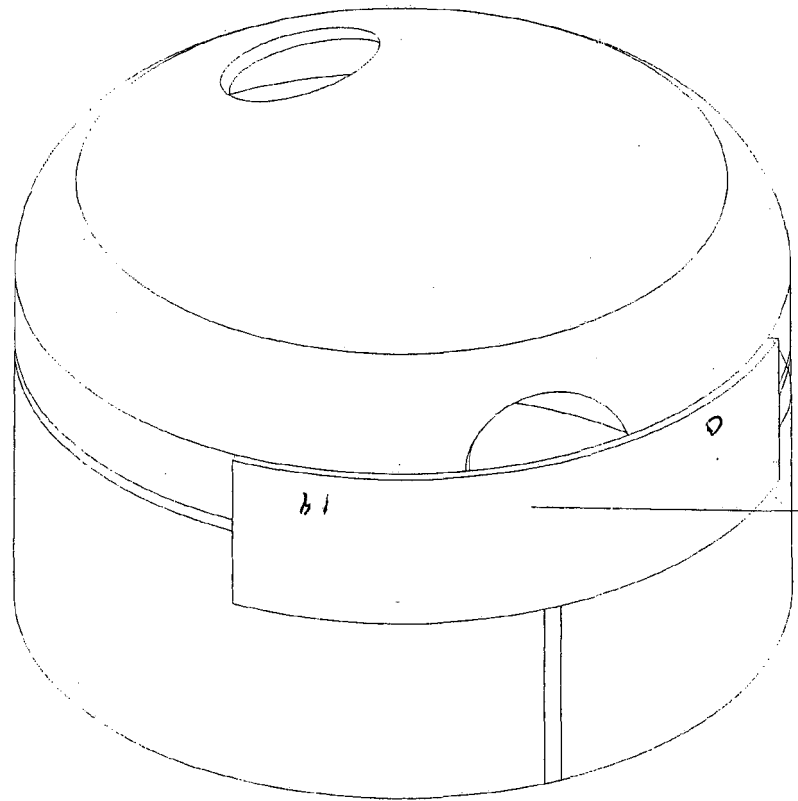
P Penetrator
 S Shim
 L Location Marker
 () OTHER

John Ballard II
Cooperheat-MQS Signature

[Signature]
Customer Representative Signature

12/2/05
Date

Rev	By	Date	Description
01	LAK	12.2.05	First Issued



b1

1

625678/9-0/4/24/818
Part Dome A

12/2/05

PS 2 of 2

Item No.	Film Number	Location	Comment
1			

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Unless Otherwise Specified:		Units	Drawn
Dimensions are in inches	Tolerances:	Drawn	LAK
Angular: 1/32" 1/64"	Bends:	Checked	3-Dec-05
1/4" Face Dimension	Free Face Dimension	Approved	
Picture		Comment:	

CDSCP, Inc. 1814 Hubbard St. #200
Chicago, IL 60614

Title: Dome XRay Map

Size Dwg. No. Rev
C SE120-004-047X-mfm 01

Scale: 1:2 Weight: Sheet off

Quality Assurance Documentation for Part ID: PORT DOME - Item: 83

Workorder: 65678/9-0 Sub:5 Op:22

Part: PORT DOME - -

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(10)		VWI ROOT PASS WELD DB		CWI				11-28-05	11-28-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(40)		VWI EXTERIOR COVER PASS WELD DB		CWI				11-29-05	11-29-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(50)		VWI INTERIOR COVER PASS WELD DB		CWI				11-29-05	11-29-05	A

4959

10520 Chester Road
Woodlawn, Ohio 45215



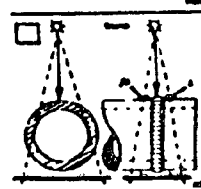
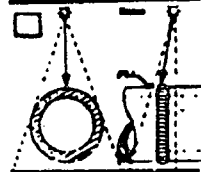
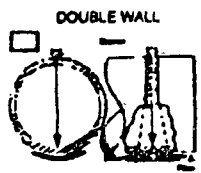
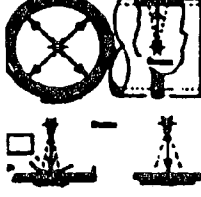
CLIENT <i>Major Tool & Machine</i>		INTERPRETER/LEVEL <i>John Ballard II</i>		RADIOGRAPHER <i>John Ballard</i>		JOB NO. <i>13850291</i>	P.O. NO.	DATE <i>12/2/05</i>		
ISOTOPE/X-RAY <i>IR-192</i>	DIA. X LEN/KV <i>118x079</i>	CURIES/MA <i>57</i>	FOCAL SPOT SIZE <i>.142"</i>	SFD <i>9"</i>	SOD <i>8.625"</i>	TIME <i>125</i>	FILM PROCESSING <i>AUTO</i>	FILM TYPE <i>Kodak AA</i>	FILM TECHNIQUE <i>Double</i>	PB SCREENS <i>.010"</i>
WELD PROCESS <i>GTAW</i>	MATERIAL SPEC. <i>Inconel 625</i>		MATERIAL DIAMETER <i>18"</i>		MATERIAL THICKNESS <i>.375"</i>	PENETRATOR <i>ASTM B</i>	SHIM <i>N/A</i>	ACCEPTANCE STANDARD <i>ASME VIII, DIV. 1, UW-51</i>		

DESCRIPTION
*65678/9.0/5/24/818
Port Dome B
Pg 1 of 2*

REMARKS
Densitometer 12105 cal due 2/2/06

FITTING, SEAM OR FITTING	FILM INTERVAL NUMBER	WELDER IDENTIFICATION	PENETRATOR		SLAG	POROSITY	POROSITY WITH TAIL	CRACK	LACK OF PEN	LACK FUSION	INTERNAL CONVEXITY	INTERNAL CONCAVITY	TUNGSTEN	MELT-THROUGH	BURN-THROUGH	CRATER/FIT	OXIDATION	INTERNAL UNDERCUT	EXTERNAL UNDERCUT	ALIGNED INDICATIONS	WELD CONTOUR	MIS-MATCH	FILM ARTIFACT	VISUAL CONCERNS	FILM DENSITY	SEE REMARKS	ACCEPT	REJECT				
			SIZE	QUALITY LEVEL																												
<i>circ</i>	<i>0-14</i>	<i>N/A</i>	<i>LB</i>	<i>.010</i>																												

End View | Side View
SINGLE WALL



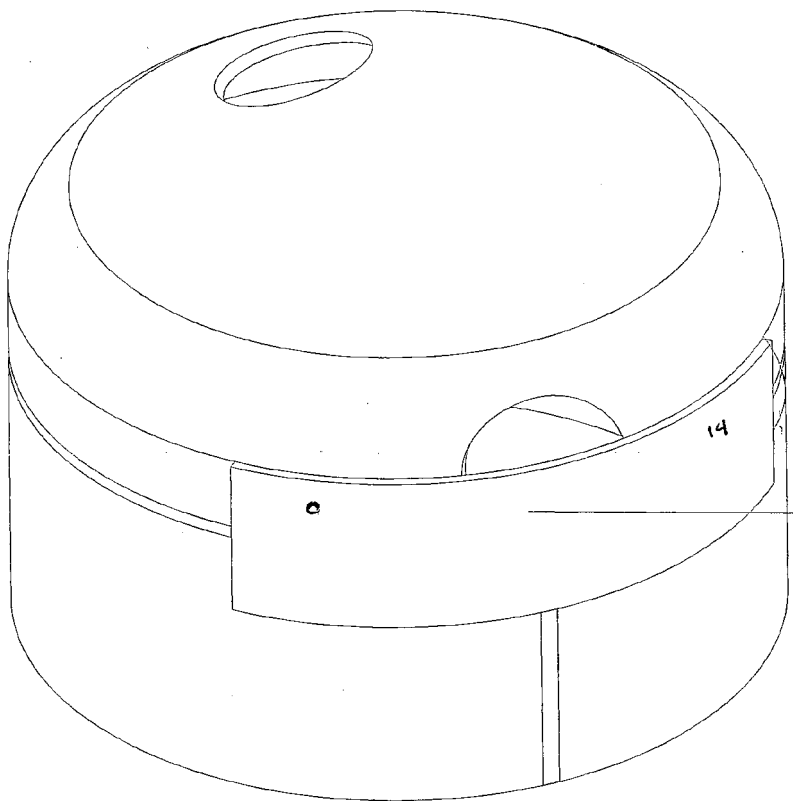
P Penetrator
S Shim
L Location Marker
() OTHER

John Ballard II
Cooperheat-MQS Signature

[Signature]
Customer Representative Signature

12/2/05
Date

Rev	By	Date	Description
01	LAK	12.2.05	First Issued



6567819.015124/818
PORT DOME B

PG 2 of 2
12/2/05

Item No.	Film Number	Location	Comment
1			

Unless Otherwise Specified: Dimensions are in inches Tolerances: Angular: Fractions Two Place Decimals Three Place Decimals		Inches Date Drawn Checked Approved	LAK 12/2/05	Title: Dome XRay Map
Property and Confidentiality The information contained in this drawing is the sole property of Cassini Design Concepts and Polyspring, Inc. Any reproduction in part or in whole without the written consent of CDCP Inc is prohibited.		Author: Title: DO NOT SCALE DRAWING	Comment: Size Dwg. No. Scale: 1:2 Weight:	Rev SEI120-004-047X-mfr 01 01 SH1 of 1

© CDCP, Inc. (CDP Numbered Part)
 2nd Fl., 100 3rd St.

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: Frank Malinowski

E-Mail: fmalinowski@pppl.gov

Telephone: 609-243-2441

Fax: 609-243-2021

Part: /SE120-004-23 (CF 6" Flange)

Drawing ID: SE120-004

Revision: 1

Customer P.O.: S005243-F

Serial No./Qty: N/A

Reported By: DOUG MCCORKLE

E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433

Fax: 317-634-9420

Problem: Magnetic Permeability required to be 1.02 Max
Parts Check >1.05 but < 1.1

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: 0

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

CUSTOMER COPY

Invoice No No. De Facture Rechnungs Nr 437960001-0	Date Entered Date De Commaude Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01369	Report No. Rapport No Zeugnis Nr 20050525089	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 38 x 52 SE120-004 REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC

Heat Number Numero De Coolee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6805	0.21		0.028	3.3	0.2066	21.97	0.1637	4.7452	0.2713	8.67	59.49	0.007	0.004	0.21	0.3211			BUTT END *02
2650 5 6805	^{Cr+Nb} 3.2994	^{Ta} <0.05	Zr	Bi	Se	La	^{Cr+Cu}	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: **Tammy Shepherd**
Certification Technician

5/25/2005

T. Shepherd

JUN 15 2005

97115 DJ

lines 1-6



JUN 15 2005

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MC109051.TIF1

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**HAYNES
International**

Haynes International
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PO Box 9013
Kokomo, Indiana, 46902

Invoice No No. De Facture Rechnungs Nr 437960001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01369	Report No. Rapport No Zeugnis Nr 20050525089	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Sold To • Client • Bestellarnschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 38 x 52 SE120-004 REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
---	---	--

Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgraeze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgraeze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgraeze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgraeze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
127000 PSI		61000 PSI	53 %		(1)(A)												

Certified By • Certifie Par • Bescheinigt Durch: **Tammy Shepherd** 5/25/2005 (1) 2742657051
Certification Technician

T. Shepherd
JUN 15 2005



THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109051.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 437960001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01369	Report No. Rapport No Zeugnis Nr 20050525089	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
International

Haynes International
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PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 38 x 52 SE120-004 REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	--	---

Annealed Hardness Durete Recuit Geglacht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosneur De Grain Korngrösse							IGA	Uniformity	Corrosion Rate	Oxidation Rate	Charpy Impact Test				Creep Rupture				
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number	Attack Depth					Corrosion	Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden
93 HRB	(1)(A)	6								MPY											

Certified By • Certifie Par • Bescheinigt Durch: **Tammy Shepherd**
Certification Technician

5/25/2005 (1) 2742657051

T. Shepherd
JUN 15 2005



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MC109051.TIF3

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 437960001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01369	Report No. Rapport No Zeugnis Nr 20050525089	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	HAYNES International	CUSTOMER COPY Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902
Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 38 x 52 SE120-004 REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100		
Specification • Specification • Spezifikation PS-489, E; PS-489, E			Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC		

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2742657051 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Tammy Shepherd** 5/25/2005
 Certification Technician




JUN 15 2005

JUN 15 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-5-6801
2650-5-6796
2650-5-6805
2650-5-6808
2650-5-6820

Purchase Order Numbers

P05-01369
P05-01372
P05-01373
P05-01374
P05-01377
P05-01378
P05-01379

Best Regards,

Marlin C. Losch III

FIRST METALS & PLASTICS TECHNOLOGIES, INC.

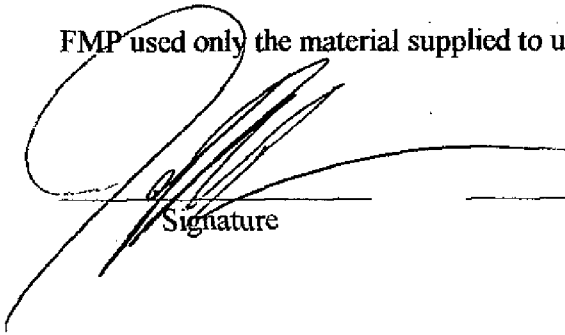

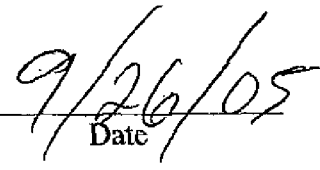
CERTIFICATE OF CONFORMANCE

Part Number _____ Port 12 _____

We do hereby certify that the material shipped on Purchase Order PO5-04709 conforms to all specification requirements called out or referenced on the above purchase order.

The above items were processed and/or manufactured in accordance with the template and/or gauge, which has supplied to FMP by the customer.

FMP used only the material supplied to us by the customer.

 Signature Title Date

9.27.05
100997 WA
Line 37.48



OCT 05 2005

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

CUSTOMER COPY

Invoice No No. De Facture Rechnungs Nr 437972001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01372	Report No. Rapport No Zeugnis Nr 20050525093	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

Haynes International
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PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 26 x 52 SE120-004-36MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	--	--

Heat Number Numero De Coulée Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6805	0.21		0.028	3.3	0.2066	21.97	0.1637	4.7452	0.2713	8.67	59.49	0.007	0.004	0.21	0.3211			BUTT END *02
	(Cb+Ni)	Ta	Zr	Bi	Sc	La	(V+Nb)	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		
2650 5 6805	3.2994	<0.05																BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: **Tammy Shepherd** 5/25/2005
Certification Technician

T. Shepherd
JUN 15 2005



JUN 15 2005
97113 DA
line 1-6

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MC109052.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 437972001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01372	Report No. Rapport No Zeugnis Nr 20050525093	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constraicte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
127000 PSI		61000 PSI	53 %		(1)(A)														

Certified By • Certifie Par • Bescheinigt Durch: Tammy Shepherd Certification Technician	5/25/2005	(1) 2742657051
--	-----------	----------------

T. Shepherd
7/1/05 15 2005



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MC109052.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 437972001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01372	Report No. Rapport No Zeugnis Nr 20050525093	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <u>HAYNES</u> <u>International</u> </div> <div style="text-align: right;"> Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902 </div> </div>
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 26 x 52 SE120-004-36MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellemenge 6 PC		Quantity Shipped Quantite Expediee Liefermenge 6 PC	

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2742657051 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Tammy Shepherd
 Certification Technician

5/25/2005




JUN 15 2005

MC109052.TIF4



JUN 15 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-5-6801

2650-5-6796

2650-5-6805

2650-5-6808

2650-5-6820

Purchase Order Numbers

P05-01369

P05-01372

P05-01373

P05-01374

P05-01377

P05-01378

P05-01379

Best Regards,

Martin C. Losch III

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 437985001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01373	Report No. Rapport No Zeugnis Nr 20050526077	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
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Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 32 x 43 SE120-004-10MTM REF:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	--	--

Heat Number Numero De Cotelec Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6805	0.21		0.028	3.3	0.2066	21.97	0.1637	4.7452	0.2713	8.67	59.49	0.007	0.004	0.21	0.3211			BUTT END *02
2650 5 6805	3.2994	<0.05																BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician
Amanda Aguirre
5/26/2005

JUN 15 2005
97110 DJ
Line 1-6


MTM 016 JUN 15 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109053.T1F1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 437985001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01373	Report No. Rapport No Zeugnis Nr 20050526077	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4		Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902
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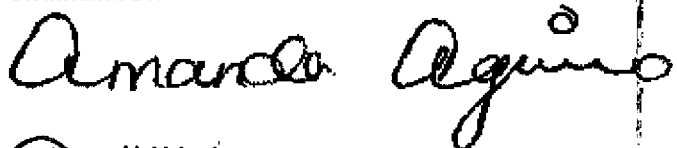

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 32 x 43 SE120-004-10MTM REF:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
---	---	--

Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantité Commandée Bestelmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
--	---	--

Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
130000 PSI		61000 PSI	48 %		(1)(A)												

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005 (1) 2743540351

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109053.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 437985001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01373	Report No. Rapport No Zeugnis Nr 20050526077	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 32 x 43 SE120-004-10MTM REF:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	--	--

Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	---	--

Annened Hardness Durete Recuit Geglucht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngroesse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture				
		Grain Size	Preliminary Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung
94 HRB	(1)(A)	5								MPY											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005 (1) 2743540351

Amanda Aguirre

MTM 016 JUN 15 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 49. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109053.TIF3

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 437985001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01373	Report No. Rapport No Zeugnis Nr 20050526077	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> HAYNES <u>International</u> </div> <div style="text-align: right;"> Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902 </div> </div>
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 32 x 43 SE120-004-10MTM REF:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC		

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2743540351 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
 Certification Technician

5/26/2005

Amanda Aguirre

JUN 15 2005

MTM
016

MC109053.TIF4

FIRST METALS & PLASTICS TECHNOLOGIES, INC.

CERTIFICATE OF CONFORMANCE

Part Numbers :

SE120-004 65678-124/8 & 124/9

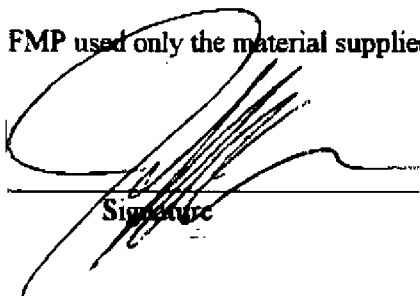
SE120-004 65678-139/8 & 139/9

SE120-004 65678-140/9

We do hereby certify that the material shipped on Purchase Order 5-04709 conforms to all specification requirements called out or referenced on the above purchase order.

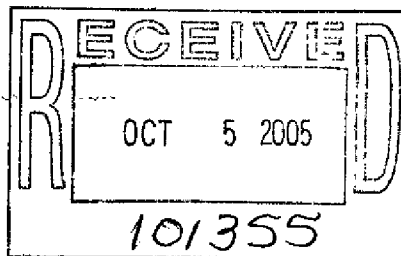
The above items were processed and/or manufactured in accordance with the template and/or gauge, which have been supplied to FMP by the customer.

FMP used only the material supplied to us by the customer.


Signature

Q.A.
Title

10/05/2005
Date



Lines 2, 3, 6, 20, 21



OCT 05 2005

FIRST METALS & PLASTICS TECHNOLOGIES, INC.

CERTIFICATE OF CONFORMANCE

Part Number N/A Neutral Port Fitting

We do hereby certify that the parts shipped on 09-02-2005

conforms to all specification requirements requested by Major Tool.

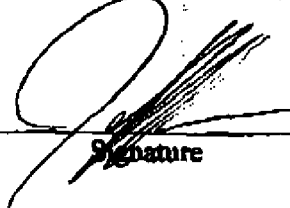
The above items were processed and/or manufactured in accordance with applicable drawings

And/or specifications unless otherwise noted. See the following insert;

There were no drawings supplied for the individual parts. Therefore First Metals used the weld fixture as a template and the request of Major Tool to fit the parts within 0.090 inches to the contour of the fixture.

3 pairs, or 6 parts were made to fit the fixture shown on the attached print. The parts conform to the tolerance of .090 inches gap or less after being clamped to the fixture.

Major Tool & Machine, Inc supplied the material used.

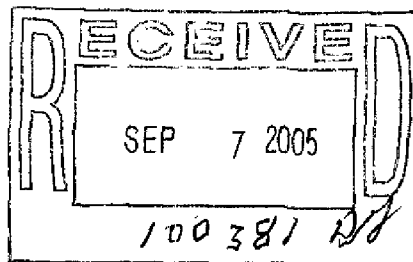

Signature

QA
Title

9/7/05
Date



SEP 12 2005



less 1.6

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Invoice No No. De Facture Rechnungs Nr 437974001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01374	Report No. Rapport No. Zeugnis Nr 20050610030	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 29 x 44 SE120-004-11MTM-REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E			Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC

Heat Number Numero De Coutee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb-Ta (Nb-Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6805	0.21		0.028	3.3	0.2066	21.97	0.1637	4.7452	0.2713	8.67	59.49	0.007	0.004	0.21	0.3211			BUTT END *02
	(ONS)	Ta	Zr	Bi	Se	La	C+N+O ₂	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02
2650 5 6805	3.2994	<0.05																


Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

6/10/2005

JUN 15 2005

Amanda Aguirre

97109 PJ

 JUN 15 2005

Linea 1.6

MC109057.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Invoice No No. De Facture Rechnungs Nr 437974001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01374	Report No. Rapport No Zeugnis Nr 20050610030	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 29 x 44 SE120-004-11MTM-REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hic.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
130000 PSI		61000 PSI	48 %		(1)(A)														

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

6/10/2005 (1) 2743540351

Amanda Aguirre

MTM 016 JUN 15 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATION(S), MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 49. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109057.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 437974001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01374	Report No. Rapport No Zeugnis Nr 20050610030	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <u>HAYNES</u> <u>International</u> </div> <div style="text-align: right;"> Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902 </div> </div>
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 29 x 44 SE120-004-11MTM-REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC		

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2743540351 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
 Certification Technician 6/10/2005

Amanda Aguirre



JUN 15 2005

JUN 15 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-5-6801
2650-5-6796
2650-5-6805
2650-5-6808
2650-5-6820

Purchase Order Numbers

P05-01369
P05-01372
P05-01373
P05-01374
P05-01377
P05-01378
P05-01379

Best Regards,

Marlin C. Losch III

FIRST METALS & PLASTICS TECHNOLOGIES, INC.

CERTIFICATE OF CONFORMANCE

Part Number Port 12

We do hereby certify that the material shipped on Purchase Order 5-04709 conforms to all specification requirements called out or referenced on the above purchase order.

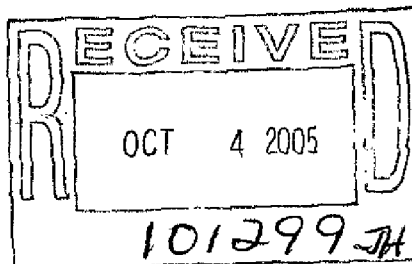
The above items were processed and/or manufactured in accordance with the template and/or gauge, which have been supplied to FMP by the customer.

FMP used only the material supplied to us by the customer.

[Signature] QA 10/04/2005
Signature Title Date



OCT 06 2005



Lines 1,4,5,7,8,9,10,11,12, 19,22,23,24,25,26,27,28,29,30

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 437987001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01375	Report No. Rapport No Zeugnis Nr 20050525041	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

CUSTOMER COPY

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 20 x 44 SE120-004-12MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expedie Liefermenge 6 PC
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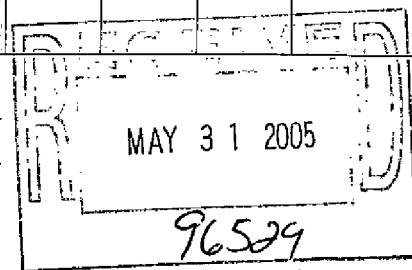
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb-Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6737	0.22		0.03	3.62	0.46	22.06	0.13	3.94	0.26	8.72	59.8	0.006	0.003	0.17	0.26			BUTT END *03
2650 4 6737	3.61	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/25/2005

Amanda Aguirre

MAY 31 2005



1-6 B.I.

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC108540.T1F1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

CUSTOMER COPY

Invoice No No. De Facture Rechnungs Nr 437987001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01375	Report No. Rapport No Zeugnis Nr 20050525041	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 20 x 44 SE120-004-12MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch					Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong in % Allong EN % Dehnung	%RA	Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong in % Allong EN % Dehnung	%RA	Test Essai Versuch	Stress Constraite Spannung	Hours Heures Stunden	% Elong in % Allong EN % Dehnung	% RA
133000 PSI		67000 PSI	50 %	(1)(A)											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/25/2005 (1) 2741771301

Amanda Aguirre



MAY 31 2005

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MC108540.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 437987001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01375	Report No. Rapport No Zeugnis Nr 20050525041	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 20 x 44 SE120-004-12MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC	

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International

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 1020 West Park Avenue
 PO Box 9013
 Kokomo, Indiana, 46902

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2741771301 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
 Certification Technician

5/25/2005

Amanda Aguirre



MAY 31 2005

MCI08540.TIF4

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 437998001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01376	Report No. Rapport No Zeugnis Nr 20050525044	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 17 x 44 SE120-004-13MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	---	--

Heat Number Numero De Coolee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6737	0.22		0.03	3.62	0.46	22.06	0.13	3.94	0.26	8.72	59.8	0.006	0.003	0.17	0.26			BUTT END *03
	(CNb)	Ta	Zr	Bi	Se	La	(SNCb)	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *03
2650 4 6737	3.61	<0.05																BUTT END *03

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Certification Technician

5/25/2005

Amanda Aguirre

MAY 31 2005



MAY 31 2005
96530
1-6 B-1

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MC108539.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 437998001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01376	Report No. Rapport No Zeugnis Nr 20050525044	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 17 x 44 SE120-004-13MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bel Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Stress Constrained Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
133000 PSI		67000 PSI	50 %	(1)(A)	Temp:						Temp:				

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Certification Technician

5/25/2005

(1) 2741771301

Amanda Aguirre

MAY 31 2005



MC108539.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 437998001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01376	Report No. Rapport No Zeugnis Nr 20050525044	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 17 x 44 SE120-004-13MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Annealed Hardness Durete Recuit Geglueht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grasseur De Grain Korngruesse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden
97 HRB	(1)(A)	8.5								MPY										

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Certification Technician

5/25/2005 (1) 2741771301

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 437998001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01376	Report No. Rapport No Zeugnis Nr 20050525044	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2741771301 (6 PC)
(A) 1750 °F to 1950 °F

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Certification Technician

5/25/2005

Amanda Aguirre

MAY 31 2005



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
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Heat Number Numero De Cauce Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																		
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W		
2650 5 6796	0.23		0.032	3.72	0.1655	21.78	0.0551	3.9177	0.2854	8.77	59.93	0.007	0.002	0.3	0.3282			BUTT END *03	
	Ch(Nb)	Ta	Zr	Bi	Se	La	C+N+O ₂	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo			
2650 5 6796	3.7198	<0.05																	BUTT END *03

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Certification Technician

6/10/2005

Amanda Aguirre



JUN 15 2005

JUN 15 2005

97108 *AS*
Series 1-6

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MC109056.T1F1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No. No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hie.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		64000 PSI	46 %		(I)(A)	Temp:							Temp:				

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

6/10/2005 (1) 2743702401

Amanda Aguirre

MTM 016 JUN 15 2005

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Annealed Hardness Durette Reçut Gegleht Haerte	Aged Hardness Durette Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constraint Spannung	Hours Heures Stunden
99 HRB	(1)(A)	6								MPY										

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Certification Technician
6/10/2005 (1) 2743702401

Amanda Aguirre

MTM 016 JUN 15 2005

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2743702401 (6 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
Certification Technician

6/10/2005

Amanda Aguirre



JUN 15 2005

JUN 13 2005



JUN 15 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were < 1.01 magnetic permeability.

Heats Tested

2650-5-6801

2650-5-6796

2650-5-6805

2650-5-6808

2650-5-6820

Purchase Order Numbers

POS-01369

POS-01372

POS-01373

POS-01374

POS-01377

POS-01378

POS-01379

Best Regards,

Marlin C. Losch III

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten POS-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R).625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specifications • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC

Heat Number Numero De Caste Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																		
	Al	B	C	Cr+Ni (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W		
2650 5 6796	0.23		0.032	3.72	0.1655	21.78	0.0551	3.9177	0.2854	8.77	59.93	0.007	0.002	0.3	0.3282				BUTT END *03
	FROM	Ta	Zr	Bi	Se	La	Cb+Ta	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo			BUTT END *03
2650 5 6796	3.7198	<0.05																	

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

6/10/2005

Amanda Aguirre



JUN 15 2005

JUN 15 2005
97108
Line 1-6

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MCI18206.TIF

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 439603001-0	Date Entered Date De Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

FILE COPY 2

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	---	---


Specification • Specification • Spezifikation S-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hie.Temp. Warm Zugversuch					Stress Rupture Temperature • Essai A Charge De Rupture Zeltstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Temp:	Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Temp:	Test Essai Versuch	Stress Constrainte Spannung	Hours Heure Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		64000 PSI	46 %		(1)(A)												

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
 Certification Technician

6/10/2005 (1) 2743702401

Amanda Aguirre

 JUN 15 2005

MC118206.TIF2
 Zmc109056.TIF

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. de Facture Rechnungs Nr 439603001-0	Date Entered Date de Commande Bestelldatum 04/25/05	Customer Reference Reference Client Kundenbestelldaten P05-01377	Report No. Rapport No Zeugnis Nr 20050610028	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellanachricht MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 0/0 x 0/0 SE120-004-14MTM REV: 1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC	
All tests and inspections have been performed and results meet specification requirements. THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION. Material conforms to PS-483 Revision H as applicable. Mill Orders Used: 2743702401 (6 PC) (A) 1750 °F to 1950 °F				

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1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
Certification Technician

6/10/2005

Amanda Aguirre



JUN 15 2005

JUN 13 2005

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MC118206.TIF4



JUN 15 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Items Tested

2650-5-6801

2650-5-6796

2650-5-6805

2650-5-6808

2650-5-6820

Purchase Order Numbers

P05-01369

P05-01372

P05-01373

P05-01374

P05-01377

P05-01378

P05-01379

Best Regards,

Marlin C. Losch III

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 438000001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01379	Report No. Rapport No Zeugnis Nr 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	---	--

Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6820	0.2		0.027	3.44	0.3649	22.33	0.0685	4.9097	0.3096	8.54	59.05	0.008	0.003	0.14	0.2713			BUTT END *02
	CHN	Ta	Zr	Bi	Se	La	C+N+Cu	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		
2650 5 6820	3.4331	<0.05																BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005

Amanda Aguirre

MTM 016 JUN 16 2005

JUN 16 2005

97148 NY

Area 1-6

MC109033.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 438000001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01379	Report No. Rapport No Zeugnis Nr 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanrschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
--	--	--

Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hie.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strickgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strickgrenze	% Elong in % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strickgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strickgrenze	% Elong in % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Stress Constraite Spannung	Hours Heures Stunden	% Elong in % Allong EN % Dehnung	% RA
133000 PSI		66000 PSI	45 %	(1)(A)											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005

(1) 2043612691

Amanda Aguirre

MTM 016 JUN 16 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109033.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 438000001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01379	Report No. Rapport No Zeugnis Nr 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E,EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Annealed Hardness Durete Recuit Gegleht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture				
		Grain Size	Predominant Grain Size	Reery. Grain	Unrecry. Grain %	ALA	PRW Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constrainat Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung
98 HRB	(1)(A)	7.5								MPY											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005 (1) 2043612691

Amanda Aguirre


MTM 016 JUN 16 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC109033.TIF3

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 438000001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01379	Report No. Rapport No Zeugnis Nr 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<div style="text-align: center;">  </div> Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902
Sold To • Client • Bestellanrschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation PS-489, E			Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC	

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2043612691 (6 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
 Certification Technician

5/26/2005

Amanda Aguirre

MTM 016 JUN 16 2005

MC109033.TIF4

JUN 16 2005



Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on June 10, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-5-6801

2650-5-6796

2650-5-6805

~~2650-5-6808~~

2650-5-6820

Purchase Order Numbers

P05-01369

P05-01372

P05-01373

P05-01374

P05-01377

P05-01378

P05-01379

Best Regards,

Marlin C. Losch III

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 43800001-0	Date Entered Date De Commande Bestelldatum 04/04/05	Customer Reference Reference Client Kundenbestelldaten P05-01379	Report No. Rapport No Zeugnis Nr 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902


Sold To • Client • Bestellanrschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestimmung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC

Heat Number Nombres de Corder Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6820	0.2		0.027	3.44	0.3649	22.33	0.0685	4.9097	0.3096	8.54	59.05	0.008	0.003	0.14	0.2713			BUTT END *02
	UNO	Ta	Zr	Bi	Se	La	CHCOF	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02
2650 5 6820	3.4331	<0.05																BUTT END *02

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005

JUN 16 2005

Amanda Aguirre
 JUN 16 2005

97148 219
linea 1-6

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MC118207.TIF

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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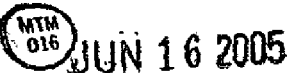
HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Invoice No. No. De Facture Rechnungs Nr 438000001-0		Date Entered Date De Commande Bestelldatum 04/04/05		Customer Reference Reference Client Kundenbestelldaten P05-01379			Report No. Rapport No Zweignr Nr 20050526076		Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4													
Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA				Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA				Product Description • Description Produit • Material Bezeichnung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100														
Specification • Spécification • Spezifikation PS-489, E						Quantity Ordered Quantité Commandée Bestellmenge 6 PC		Quantity Shipped Quantité Expédiée Liefermenge 6 PC														
Annealed Hardness Dureté Recuit Gehtucht Härte		Aged Hardness Dureté Vieilli Gehtucht Härte		Grain Size Grosseur De Grains Korngrösse				IGA	Uniformity	Corrosion Rate	Oxidation Rate	Charpy Impact Test			Creep Rupture							
				Grain Size	Predominant Grain Size	Av. Grain	Univ. Grain %	ALA	PAW Figure Number	Anneal Depth	Corrosion	Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Equip	Stress Concentration	Hours	% Elong in % Along EN	% Elong @ (5 lbs)	
98 HRB		(1)(A)		7.5							MPY		Fl. Lb.	Fl. Lb.	Fl. Lb.	Fl. Lb.	Time	PSI				

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005 (1) 2043612691

Amanda Aguirre


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TTC/CAV/ATM

MC118207.TIF3

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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HAYNES
International

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1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Invoice No. No. de Facture Rechnungs Nr. 43800001-0	Date Entered Date de Commande Bestelldatum 04/04/05	Customer Reference Reference Clients Kundenbestelldaten P05-01379	Report No. Rapport No. Zeugnis Nr. 20050526076	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellanwärter MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Bezeichnung 0.500 x 12 x 50 SE120-004-4MTM REV:1A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2043612691 (6 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/26/2005

Amanda Aguirre

MTM
016
JUN 16 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SPECIFICATION. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATION UNLESS INDICATED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FATAL, FALSIFIED OR FRAUDULENT STATEMENTS OR ERRORS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW TITLE 18, CHAPTER 49. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS MARKING MUST MEET MATERIAL SPECIFICATIONS.

MC118207.TIF4

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No. No. de Facture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P0500904	Report No. Rapport No Zengals Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestimmung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestimmung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0889 S400E,SI000E, EN 10204 3.1.B, AS9100
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Specification • Spécification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00c1, UNS# N06625, Gr. 1; PS-489, B	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
---	--	--

Heat Number Numero De Charge Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cu-Ta (Cu-Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6730	0.21		0.03	3.61	0.24	21.69	0.07	4.07	0.3	8.49	60.78	0.007	0.002	0.16	0.27			BUTT END *03
2650 4 6731	0.21		0.02	3.54	0.23	21.51	0.08	4.68	0.26	8.59	59.88	0.008	<0.002	0.2	0.29			BUTT END *03
2650 4 6769	0.13		0.026		0.2535	22.32	0.0631	4.499	0.2755	8.75	59.77	0.0072	0.004	0.246	0.2595			BUTT END *01
		Ta	Zr	U	Se	La	Cu-Ta	Pb	Mg	Y	Ag	N	Ci	Al+Ti	Ni+Co	Ni+Mo		
2650 4 6730	3.56	<0.05																BUTT END *03
2650 4 6731	3.43	<0.05																BUTT END *03
2650 4 6769	3.5399	<0.05																BUTT END *01

Certified By • Certifié Par • Bescheinigt Durch: **Troy Reynolds** 4/29/2005
Certification / Certification

Troy Reynolds



5/2/05
95764
1-12

B-A

THE HAYNES COMPANY HAS BEEN ADOPTED AS A SOURCE OF SUPPLY FOR THE UNITED STATES GOVERNMENT. THIS MATERIAL IS THE PROPERTY OF HAYNES INTERNATIONAL, INC. IT IS TO BE USED ONLY FOR THE PURPOSES AUTHORIZED BY THE GOVERNMENT. IT IS TO BE RETURNED TO HAYNES INTERNATIONAL, INC. AT THE END OF THE TERM OF USE. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. HAYNES INTERNATIONAL, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS MATERIAL. HAYNES INTERNATIONAL, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS MATERIAL.

MC107793.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No. No. De Facture Rechnungs Nr 436927001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestellnummer P0500964	Report No. Rapport No Zeugnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Beställerauschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	--	--

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch					Stress Rupture Temperature • Essai A Charge De Rupture Zeistandversuch						
Ultimate Zugbrustkraft	0.2% Yield Lim. Elast. A 0.2% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % A Bruch LN % Dehnung	% RA	Temp.	Tensile Zugkraft	0.2% Yield Lim. Elast. A 0.2% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % A Bruch EN % Dehnung	% RA	Temp.	Tensile Versuch	Stress Controlled Spanning	Hours Holding Steady	% Elong In % A Bruch EN % Dehnung	% RA
123000 PSI		63000 PSI	51 %		(1)(A)											
126000 PSI		64000 PSI	49 %		(2)(A)											
132000 PSI		64000 PSI	45 %		(3)(A)											

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician
4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds

MTM 09
5/2/05

MC107793.TIF2

THE DATA CONTAINED HEREIN IS AN ABSTRACT FROM SOURCE INFORMATION THAT HAS BEEN REPRODUCED FROM THE ORIGINAL SOURCE. IT IS NOT TO BE USED FOR THE PURPOSES OF REPRODUCING OR TRANSMITTING INFORMATION IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HAYNES INTERNATIONAL, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HAYNES INTERNATIONAL, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Référence Client Kundenbestelldaten 20500964	Report No. Rapport No Zeugnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
International

ORIGINAL

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902


Sold To • Client • Bestellungsanrichter MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellempfänger MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Spécification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1, ASTM-B-443, 00e1, UNS# N06625, Gr. 1, PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
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Annealed Hardness Dureté Révêt Gelegheit Härte	Aged Hardness Dureté Vieilli Gealtert Härte	Grain Size Grosseur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Preferential Area Size	Recry Grain	Grain %	A1 A	Peak Figure Number			Attack Type	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Equip	Specimen	Hours
97 HRB 100 HRB 93 HRB	(1)(A) (2)(A) (3)(A)	5 5 6								MPY		Ft. Lbs	Ft. Lbs	Ft. Lbs	Ft. Lbs	Yield	PSI			

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician

4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501


 5/2/05

THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SAMPLES TESTED AND PRESENTS ONE OF THE PROPERTIES OF THE SAMPLE SUBMITTED. THIS MATERIAL DOES NOT REPRESENT THE PERFORMANCE OF ANY SPECIFIC PRODUCT OR SERVICE. THE INFORMATION CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A WARRANTY OR ENDORSEMENT OF THE PRODUCT OR SERVICE. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED AS A BASIS FOR ANY CLAIMS OR DAMAGES. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED AS A BASIS FOR ANY CLAIMS OR DAMAGES. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED AS A BASIS FOR ANY CLAIMS OR DAMAGES.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De l'acture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldatum P0500964	Report No. Rapport No Zangnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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HAYNES
International

ORIGINAL

Haynes International
1620 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellausschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00c1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
--	---	--

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2741306701 (1 PC), 2741680501 (3 PC), 2941844501 (2 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Troy Reynolds** 4/29/2005
Certification Technician

Troy Reynolds

MTM
09
5/2/05

THE DATA AND SPECIFICATIONS WERE OBTAINED FROM ANALYSES PERFORMED BY THE COMPANY AND THE RESULTS OF THESE TESTS ARE THE PROPERTY OF HAYNES INTERNATIONAL. HAYNES INTERNATIONAL IS NOT RESPONSIBLE FOR THE USE OF THIS MATERIAL IN ANY MANNER THAT MAY BE IN VIOLATION OF ANY APPLICABLE LAWS OR REGULATIONS. THE INFORMATION CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE AN OFFER OF ANY PRODUCT OR SERVICE. HAYNES INTERNATIONAL, INC. IS NOT RESPONSIBLE FOR THE USE OF THIS MATERIAL IN ANY MANNER THAT MAY BE IN VIOLATION OF ANY APPLICABLE LAWS OR REGULATIONS.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P0500964	Report No. Rapport No Zeugnis Nr 20050429108	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelldung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 32.500 VVSA PORT 10 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commande Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Tension A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Dehnung	%RA	Temp.	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Dehnung	%RA	Temp.	Stress Constatant Spannung	Time Heures Stunden	% Elong In % Dehnung	% RA
123000 PSI		63000 PSI	51 %												
126000 PSI		64000 PSI	49 %	(1)(A)											
132000 PSI		64000 PSI	45 %	(2)(A)											
				(3)(A)											

Certified By • Certifie Par • Bescheinigt Durch: Troy Reynolds
Certification Technician

4/29/2005

(1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds



5/2/05

MC107793.TIF6

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No. No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten 70500964	Report No. Rapport No Zeugnis Nr 20050429168	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
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1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanrschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 32.500 VVSA PORT 10 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Annealed Hardness Durete Result Gelegthe Haerte	Ased Hardness Durete Vitelli Gealter Haerte	Grain Size Grosser De Grain Korngrosse							IGA	Uniformity	Corrosion Rate		Oxidation Rate		Charpy Impact Test				Creep Rupture							
		Grain Size	Preferential Grain Size	Excess Grain	Upper Grain %	ALA	B&W Figure Number	Attack Depth			Corrosion	Test Method			Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Limit Voucher	Stress Concentration	Hours	Stress	Strain	% Elong in 10 Along EN 8. Dehoug	% Elong in 50 Elong	
97 HRB 100 HRB 93 HRB	(1)(A) (2)(A) (3)(A)	5 5 6																								

Certified By • Certifie Par • Bescheinigt Durch: Troy Reynolds
Certification Technician
4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds

MTM 09
5/2/05

THE BUYER AGREES TO HOLD HAYNES INTERNATIONAL RESPONSIBLE FOR SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCT IN THE ORDER'S SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE SPECIFICATION AT THE TIME OF TESTING AND IS NOT SUBJECT TO ANY EXEMPTIONS OR MODIFICATIONS. HAYNES INTERNATIONAL IS NOT RESPONSIBLE FOR THE BUYER'S USE OF THE MATERIAL. THE BUYER'S USE OF THE MATERIAL IS AT HIS OWN RISK. HAYNES INTERNATIONAL IS NOT RESPONSIBLE FOR THE BUYER'S USE OF THE MATERIAL. THE BUYER'S USE OF THE MATERIAL IS AT HIS OWN RISK. HAYNES INTERNATIONAL IS NOT RESPONSIBLE FOR THE BUYER'S USE OF THE MATERIAL. THE BUYER'S USE OF THE MATERIAL IS AT HIS OWN RISK.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P05G0064	Report No. Rapport No Zeugnis Nr 20050429108	Pages of Page Page de Page Anzahl der Seiten 4 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellausschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelleunge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
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Product Description • Description Produit • Material Beschreibung

**0.250 x 31.375 x 32.500
VVSA PORT 10 TUBE
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr 1; ASTM-B-443, 00e1, UNS# N06625, Gr 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Lieferrmenge 6 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2741306701 (1 PC), 2741680501 (3 PC), 2941844501 (2 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician 4/29/2005

Troy Reynolds



5/2/05

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 10 - Item: 121

Workorder: 65678/9-0 Sub:225 Op:20

Part: SE120-004 PORT 10 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL INSPECTION	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			F COMPLETED WELD	06-22-05	06-22-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 10 - Item: 123

Workorder: 65678/9-0 Sub:225 Op:34

Part: SE120-004 PORT 10 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M 08-17-05			A
(10)											
*		ROUNDNESS WITHIN .060"	CALIPER	QA		J-1103	.040	840-G.M 08-17-05			A
(20)											

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No. No. de Facture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Référence Client Kundenbestelldaten P0500904	Report No. Rapport No Zengals Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestimmung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestimmung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0889 S400E,SI000E, EN 10204 3.1.B, AS9100
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Specification • Spécification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00c1, UNS# N06625, Gr. 1; PS-489, B	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
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Heat Number Numero De Cooche Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cu-Ta (Cu-Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6730	0.21		0.03	3.61	0.24	21.69	0.07	4.07	0.3	8.49	60.78	0.007	0.002	0.16	0.27			BUTT END *03
2650 4 6731	0.21		0.02	3.54	0.23	21.51	0.08	4.68	0.26	8.59	59.88	0.008	<0.002	0.2	0.29			BUTT END *03
2650 4 6769	0.13		0.026		0.2535	22.32	0.0631	4.499	0.2755	8.75	59.77	0.0072	0.004	0.246	0.2595			BUTT END *01
		Ta	Zr	U	Se	La	Cu-Ta	Pb	Mg	Y	Ag	N	Ci	Al+Ti	Ni+Co	Ni+Mo		
2650 4 6730	3.56	<0.05																BUTT END *03
2650 4 6731	3.43	<0.05																BUTT END *03
2650 4 6769	3.5399	<0.05																BUTT END *01

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification / Certification 4/29/2005

Troy Reynolds



5/2/05
95764
1-12

B-A

THE HAYNES COMPANY HAS BEEN AWARE OF THE FACT THAT THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE HAYNES COMPANY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE HAYNES COMPANY.

MC107793.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No. No. De Facture Rechnungs Nr 436927001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestellnr P0500964	Report No. Rapport No Zeugnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Beställerauschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch					Stress Rupture Temperature • Essai A Charge De Rupture Zeistandversuch						
Ultimate Zugbrüchigkeit	0.2% Yield Lim. Elast. A 0.2% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 1.2% Streckgrenze	% Elong In % A Bruch LN % Dehnung	% RA	Temp.	Tensile Zugbrüchigkeit	0.2% Yield Lim. Elast. A 0.2% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 1.2% Streckgrenze	% Elong In % A Bruch EN % Dehnung	% RA	Temp.	Tensile Versuch	Stress Controlled Spanning	Hours Holding Studen	% Elong In % A Bruch EN % Dehnung	% RA
123000 PSI		63000 PSI	51 %	(1)(A)												
126000 PSI		64000 PSI	49 %	(2)(A)												
132000 PSI		64000 PSI	45 %	(3)(A)												

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician
4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds

MTM 09
5/2/05

MC107793.TIF2

THE DATA CONTAINED HEREIN IS AN ABSTRACT FROM SOURCE INFORMATION THAT HAS BEEN REPRODUCED FROM THE ORIGINAL SOURCE. IT IS NOT TO BE USED FOR THE PURPOSES OF REPRODUCING OR TRANSMITTING INFORMATION IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT IS THE PROPERTY OF THE NATIONAL BUREAU OF STANDARDS AND IS LOANED TO YOUR ORGANIZATION. IT IS TO BE RETURNED TO THE NATIONAL BUREAU OF STANDARDS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT IS THE PROPERTY OF THE NATIONAL BUREAU OF STANDARDS AND IS LOANED TO YOUR ORGANIZATION. IT IS TO BE RETURNED TO THE NATIONAL BUREAU OF STANDARDS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P05U0964	Report No. Rapport No Zeugnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902


Sold To • Client • Bestellungsanr./Id MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellempfänger MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VYSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
---	---	--

Specification • Spécification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1, ASTM-B-443, 00e1, UNS# N06625, Gr. 1, PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
---	--	--

Annealed Hardness Dureté Recuit Gelegheit Härte	Aged Hardness Dureté Vieilli Gealtert Härte	Grain Size Grosseur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Preferential Area Size	Recry Grain	Grain %	A1 A	Peak Figure Number			Attack Type	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Equip	Stress	Hours
97 HRB 100 HRB 93 HRB	(1)(A) (2)(A) (3)(A)	5 5 6								MPY										

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician

4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501


 5/2/05

THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SAMPLES TESTED AND PRESENTS ONE OF THE PROPERTIES OF THE SAMPLE SUBMITTED. THIS MATERIAL DOES NOT REPRESENT THE PERFORMANCE OF ANY SPECIFIC PRODUCT OR SERVICE. HAYNES INTERNATIONAL IS NOT RESPONSIBLE FOR THE REPRODUCTION OF THIS INFORMATION IN ANY MANNER. THE REPRODUCTION OF THIS INFORMATION IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF HAYNES INTERNATIONAL IS PROHIBITED. THE REPRODUCTION OF THIS INFORMATION IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF HAYNES INTERNATIONAL IS PROHIBITED.

MC107793.TIF3

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De l'acture Rechnungs Nr 436027001-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundensbestelldatum P0500964	Report No. Rapport No Zangnis Nr 20050429106	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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HAYNES
International

ORIGINAL

Haynes International
1620 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellausschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelldatum MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 28.500 VVSA PORT 6 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	---	--

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00c1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2741306701 (1 PC), 2741680501 (3 PC), 2941844501 (2 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Troy Reynolds** 4/29/2005
Certification Technician

Troy Reynolds

MTM
09
5/2/05

THE DATA AND SPECIFICATIONS WERE OBTAINED FROM ANALYSES PERFORMED BY THE COMPANY AND THE RESULTS OF THESE ANALYSES WERE USED TO DETERMINE THE CERTIFICATION STATUS. THE COMPANY MAKES NO WARRANTY AS TO THE ACCURACY OF THE DATA AND SPECIFICATIONS. THE RESPONSIBILITY FOR THE USE OF THIS INFORMATION IS SOLELY THAT OF THE USER. THE COMPANY IS NOT RESPONSIBLE FOR ANY DAMAGE OR LOSS OF PROFITS OR BUSINESS INTERRUPTIONS RESULTING FROM THE USE OF THIS INFORMATION. THE COMPANY IS NOT RESPONSIBLE FOR ANY DAMAGE OR LOSS OF PROFITS OR BUSINESS INTERRUPTIONS RESULTING FROM THE USE OF THIS INFORMATION. THE COMPANY IS NOT RESPONSIBLE FOR ANY DAMAGE OR LOSS OF PROFITS OR BUSINESS INTERRUPTIONS RESULTING FROM THE USE OF THIS INFORMATION.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZKUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027002-1	Date Entered Date de Commande Bestelldatum 03/11/05	Customer Reference Référence Client Kundenbestellblatt P0500964	Report No. Rapport No Zeugnis Nr 20050429108	Pages of Pages Page de Pages Anzahl der Seiten 1 OF 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaufschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 32.500 VYSA PORT 10 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
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Heat Number Numero de Caudes Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cr ₁₂ (0.5-1%)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6730	0.21		0.03	3.61	0.24	21.69	0.07	4.07	0.3	8.49	60.78	0.007	0.002	0.16	0.27			BUTT END *03
2650 4 6731	0.21		0.02	3.54	0.23	21.51	0.08	4.68	0.26	8.59	59.88	0.008	<0.002	0.2	0.29			BUTT END *03
2650 4 6769	0.13		0.026		0.2535	22.32	0.0631	4.499	0.2755	8.75	59.77	0.0072	0.004	0.246	0.2595			BUTT END *01
	BASE	Y ₂	Zr	Bi	Se	La	IN-100	Pb	Mg	V	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		
2650 4 6730	3.56	<0.05																BUTT END *03
2650 4 6731	3.43	<0.05																BUTT END *03
2650 4 6769	3.5399	<0.05																BUTT END *01

Certified By • Certifié Par • Bescheinigt Durch: **Troy Reynolds**
Certification Technician
4/29/2005

Troy Reynolds

NTM
09
5/2/05

THESE ANALYSES (ANALYSES) SONT LE RESULTAT D'UNE ANALYSE REPRESENTATIVE DE LA MOYENNE DE LA MOYENNE. CES ANALYSES NE SONT PAS NECESSAIREMENT CONFORMES A LA SPECIFICATION. LES RESULTATS SONT LE RESULTAT D'UNE ANALYSE REPRESENTATIVE DE LA MOYENNE DE LA MOYENNE. CES ANALYSES NE SONT PAS NECESSAIREMENT CONFORMES A LA SPECIFICATION. LES RESULTATS SONT LE RESULTAT D'UNE ANALYSE REPRESENTATIVE DE LA MOYENNE DE LA MOYENNE. CES ANALYSES NE SONT PAS NECESSAIREMENT CONFORMES A LA SPECIFICATION.

MC107793.TIF5

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P0500964	Report No. Rapport No Zeugnis Nr 20050429108	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelldung MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 32.500 VVSA PORT 10 TUBE HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commande Bestelmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Tension A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elong. A 1% 1% Streckgrenze	0.2% Yield Lim. Elong. A 0.2% 0.2% Streckgrenze	% Elong In % Allong IN % Dehnung	%RA	Temp.	Ultimate Zugfestigkeit	1% Yield Lim. Elong. A 1% 1% Streckgrenze	0.2% Yield Lim. Elong. A 0.2% 0.2% Streckgrenze	% Elong In % Allong IN % Dehnung	%RA	Temp.	Test Easi Versuch	SRM Condition Spannung	Time Heures Stunden	% Elong In % Allong IN % Dehnung	% RA
123000 PSI		63000 PSI	51 %													
126000 PSI		64000 PSI	49 %													
132000 PSI		64000 PSI	45 %													
				(1)(A)												
				(2)(A)												
				(3)(A)												

Certified By • Certifie Par • Bescheinigt Durch: Troy Reynolds
Certification Technician
4/29/2005 (1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds

MTM 09
5/21/05

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MC107793.TIF6

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No. No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten 70500964	Report No. Rapport No Zeugnis Nr 20050429168	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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HAYNES
International

ORIGINAL
Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanrchrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.250 x 31.375 x 32.500 VVSA PORT 10 TUBE HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME SB-443, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
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Annealed Hardness Durete Result Gelegte Haerte	Ased Hardness Durete Vitelli Gealterte Haerte	Grain Size Grosser De Grain Korngrosse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture				
		Grain Size	Predominant Grain Size	Excess Grain	Upper Grain %	ALA	B&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Limit Voucher	Stress Corrosion Spreading	Heave Heave Soudon	50 Hour in 50 Alloys EN 8. Dehoug
97 HRB	(1)(A)	5								MPY											
100 HRB	(2)(A)	5																			
93 HRB	(3)(A)	6																			

Certified By • Certifie Par • Bescheinigt Durch: Troy Reynolds
Certification Technician
4/29/2005
(1) 2741306701 (2) 2741680501 (3) 2941844501

Troy Reynolds

MTM 09 5/2/05

ALL DATA ARE BASED ON SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCT IN THE ORDER'S SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE STANDARD OR OTHER SPECIFICATION, AS SHOWN BY ANY EXCEPTIONS OR REQUIREMENTS. CUSTOMER'S SPECIFICATIONS AND REQUIREMENTS MAY BE FOUND IN A LATEST EDITION OF THE STANDARD OR OTHER SPECIFICATION. THIS DOCUMENT IS THE PROPERTY OF HAYNES INTERNATIONAL, INC. AND IS LOANED TO YOU FOR YOUR USE ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. HAYNES INTERNATIONAL, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF DATA OR INFORMATION THAT MAY OCCUR AS A RESULT OF USING THIS DOCUMENT. HAYNES INTERNATIONAL, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF DATA OR INFORMATION THAT MAY OCCUR AS A RESULT OF USING THIS DOCUMENT.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

ORIGINAL

Invoice No No. De Facture Rechnungs Nr 436027002-1	Date Entered Date De Commande Bestelldatum 03/11/05	Customer Reference Reference Client Kundenbestelldaten P05G0064	Report No. Rapport No Zeugnis Nr 20050429108	Pages of Page Page de Page Anzahl der Seiten 4 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellausschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelleunge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
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Product Description • Description Produit • Material Beschreibung

**0.250 x 31.375 x 32.500
VVSA PORT 10 TUBE
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr 1; ASTM-B-443, 00e1, UNS# N06625, Gr 1; PS-489, E	Quantity Ordered Quantité Commandée Bestelmenge 6 PC	Quantity Shipped Quantité Expédiée Liefmengen 6 PC
--	---	---

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2741306701 (1 PC), 2741680501 (3 PC), 2941844501 (2 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifié Par • Bescheinigt Durch: Troy Reynolds
Certification Technician 4/29/2005

Troy Reynolds



5/2/05

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 10 - Item: 125

Workorder: 65678/9-0 Sub:230 Op:34

Part: SE120-004 PORT 10 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)		Mag. Perm: 1.02 Mu Max						08-17-05			
*			CALIPER	QA		J-1103	.055	840-G.M			A
(20)		ROUNDNESS WITHIN .060"						08-17-05			

Quality Assurance Documentation for Part ID: SE120-004 PORT 10A - Item: 126

Workorder: 65678/9-0 Sub:20 Op:10

Part: SE120-004 PORT 10A - PORT 10A SUB-ASSEMBLY - PORT 10A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P10AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-29-05	09-29-05		
*		VWI - EXTERIOR FILLETS P10AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-29-05	09-29-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 10B - Item: 132

Workorder: 65678/9-0 Sub:21 Op:10

Part: SE120-004 PORT 10B - PORT 10B SUB-ASSEMBLY - PORT 10B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P10BF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-29-05	09-29-05		
*		VWI - EXTERIOR FILLETS P1B0F		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-29-05	09-29-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 11A - Item: 138

Workorder: 65678/9-0 Sub:22 Op:10

Part: SE120-004 PORT 11A - PORT 11A SUB-ASSEMBLY - PORT 11A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P11AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI					12-13-05	
*		VWI - EXTERIOR FILLETS P11AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI					12-13-05	



Eagle Alloys Corporation

117 West Park Ct. Talbott, TN 37877
Ph: (423) 586-8738 Fx: (423) 586-7456
E-Mail: eaglealloys@aol.com

CERTIFICATE OF COMPLIANCE

CUSTOMER
Major Tool & Machine, Inc.

DATE
5-23-05

PURCHASE ORDER NUMBER
P05-02476

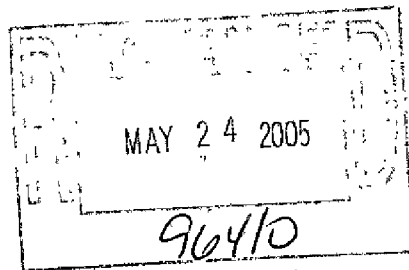
OUR ORDER NUMBER
5-1337

MATERIAL **SIZE**
Alloy 625 welded pipe 2-1/2" sch 10

QTY
20 ft

CONFORMS TO:
ASTM-B-705, PS483, PS 489

RM ID: A8519



*Line 1
B.7*

Certified By:

Rodney Bawlin

5/24/05

BRISTOL METALS L.P.
BRISTOL TN. U.S.A.
MILL TEST REPORT

TO: EAGLE ALLOYS CORPORATION
117 WEST PARK CT
TALBOTT, TN 37277

CUST NO: 557512
ORDER NO: 14762
PO NO: 8294
DATE: 01/21/2005

HEAT NO.: 26504674 2.5" WELDED PIPE SCH. 10S ALLOY 1625 UNS#N06625 ASTM
RM ID: AD519 B705-03 / ASME SB705-01, 03 ADD. CLASS 2, FULL FINISHED.

ALUMINUM	.2	CARBON	.033
CHROMIUM	22.0024	COBALT	.1849
IRON	4.5278	MANGANESE	.2605
MOLYBDENUM	0.8153	NB+TA	3.5003
NICKEL	59.3567	PHOSPHORUS	.007
SILICON	.19	SULFUR	.002
TITANIUM	.2644		
ELONG %	47	HARD RB	93
TENSILE	131000	YIELD	64000
ANNEALED	YES	EDDY CURRENT	OK
FLATTENING	OK	TENSION	OK
HYDRO PRSSURE	1000 PSI		

Annealed at 1925 Deg. F. and water quenched to
below 800 Deg. F. in less than 3 minutes

Bristol Metals has a Quality Management System that is in
compliance with ISO 9001:2000

Hardness in accordance with NACE MR0175
Bristol Metals does not add Mercury during any manufacturing process.
Chemical content is % by weight.
Mechanical test results are in English units (inches and pounds).
Certification is in accordance with EN10204 (DIN 58049) 3.1.B.
We certify this report to be true and accurate, according to our records on file
No weld repairs have been performed on the base material.

Bristol Metals L.P.

Daniel Singleton
Representative

MIBR



Quality Assurance Documentation for Part ID: SE120-004 PORT 11B - Item: 140

Workorder: 65678/9-0 Sub:23 Op:10

Part: SE120-004 PORT 11B - PORT 11B SUB-ASSEMBLY - PORT 11B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P11BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI					12-13-05	
*		VWI - EXTERIOR FILLETS P11BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI					12-13-05	

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 12A - Item: 142

Workorder: 65678/9-0 Sub:2 Op:30

Part: SE120-004 PORT 12A - PORT 12A SUB-ASSEMBLY - PORT 12A SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

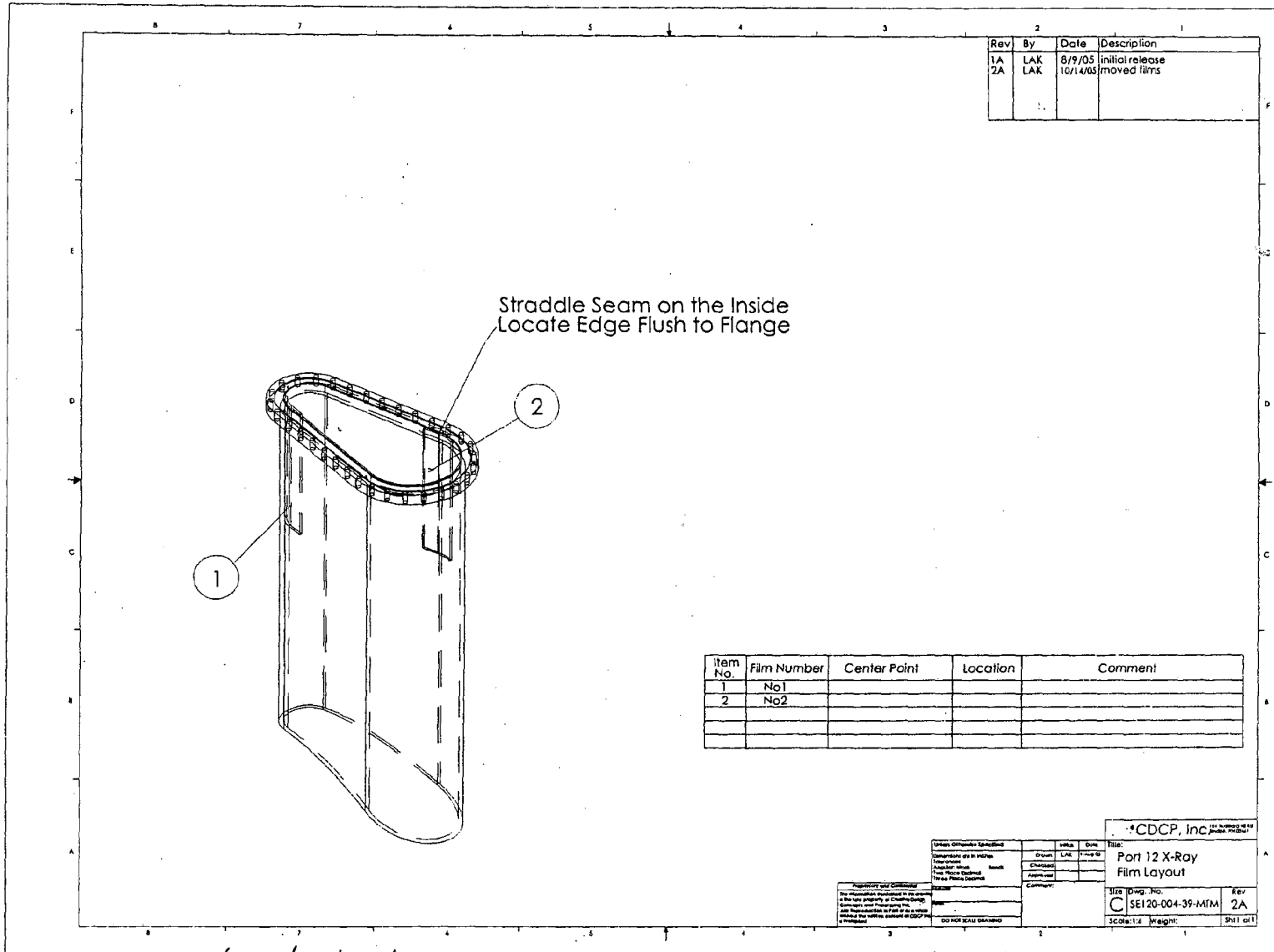
Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	ACCEPTABLE PER CU	581-D.E	581-D.E	
(10)		VWI ROOT PASS WELD P12A1		CWI			OMER REQUIREMENT	12-07-05	12-07-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(50)		VWI COVER PASS WELD P12A1		CWI				12-09-05	12-15-05	A
*				MFG			ROOT PASS WELD OK	763-R.M	581-D.E	
(60)		VWI ROOT PASS WELD P12A2		CWI				12-07-05	12-07-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(100)		VWI COVER PASS WELD P12A2		CWI				12-09-05	12-15-05	A

Quality Assurance Documentation for Part ID: SE120-004 PORT 12A - Item: 143

Workorder: 65678/9-0 Sub:2 Op:40

Part: SE120-004 PORT 12A - PORT 12A SUB-ASSEMBLY - PORT 12A SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*				MFG		VISUAL	MEETS ALL CUSTOMER	197-T.FI	933-D.L		A
(20)		VWI - ROOT PASS P12AF		CWI			REQUIREMENTS	12-15-05	12-15-05		
*				MFG		VISUAL	OK	197-T.FI	933-D.L		
(50)		VWI - COVER PASS P12AF		CWI				12-15-05	12-20-05		A
*				MFG		VISUAL	ACCEPTABLE	197-T.FI	933-D.L		A
(60)		VWI - FILLET WELDS P12AF		CWI				12-20-05	12-20-05		



Rev	By	Date	Description
1A	LAK	8/9/05	initial release
2A	LAK	10/14/05	moved films

Straddle Seam on the Inside
Locate Edge Flush to Flange

Item No.	Film Number	Center Point	Location	Comment
1	No1			
2	No2			

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Design: <input type="checkbox"/> Checked: <input type="checkbox"/> Approved: <input type="checkbox"/> Date: <input type="text"/>	Drawn: LAK Title: Port 12 X-Ray Film Layout
Project: <input type="text"/> Description: <input type="text"/> Scale: 1:1 Date: <input type="text"/>	Site: <input type="text"/> Dwg. No.: SE120-004-39-MIM Rev: 2A Scale: 1:1 Weight: <input type="text"/> Sheet: 1 of 1


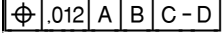
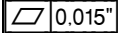
DO NOT SCALE DRAWING

65678/9.0/9/70/818
SE120-004 port 12A
Page 2 of 2
12/23/05

Quality Assurance Documentation for Part ID: SE120-004 PORT 12A - Item: 146

Workorder: 65678/9-0 Sub:2 Op:80


Part: SE120-004 PORT 12A - PORT 12A SUB-ASSEMBLY - PORT 12A SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE122-018 Rev: 1				INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC		GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G6	 DIA. 0.531 THRU +/- 0.005" (32X)		CALIPER	MFG QA		P-193	.528--.531	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (20)	G7	 DIA. .136 +/- .005 X .38 DP +/- .010" 8-32 UNC .25 DP +/- .010" (8X)		THREAD PLUG GA	MFG QA		A-74	ACCEPT	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (30)	D2			INDICATOR	MFG QA		P-4101	.003	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (40)	D3	.149 +.000/-.008"		DEPTH MICROMET	MFG QA		P-200	.144--.145	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (50)	D3	1.25 +/- .010"		OD MICROMETER	MFG QA		P-196	1.255--1.256	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (60)	C3	R .03 (tool radius) (2X)		RADIUS GAGE	MFG QA		P-4511	.030	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (70)	D3	.94 +/- .010"		CALIPER	MFG QA		P-193	.941--.943	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (90)	G7	.471 +/- .005" (2X)		CALIPER	MFG QA		P-193	.471--.473	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (100)	G8	R 2.875 (verify tool path)			MFG QA		PGRM.#29203	ACCEPT	506-R.LI 01-11-06	503-B.H 01-11-06	A
1* (150)	E3	BREAK CORNERS R .005 MIN (2X) (visual verification)			MFG		VISUAL	ACCEPT	506-R.LI 01-11-06		A
1* (160)	G5	R 5.563 (verify tool path)			MFG		PGRM.#29203	ACCEPT	506-R.LI 01-11-06		A

Quality Assurance Documentation for Part ID: SE120-004 PORT 12A - Item: 147

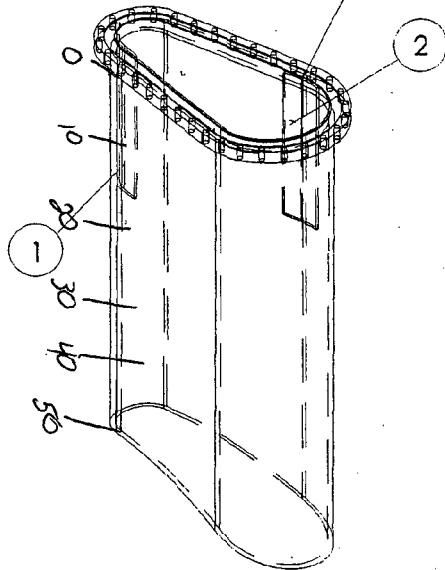
Workorder: 65678/9-0 Sub:2 Op:120

Part: SE120-004 PORT 12A - PORT 12A SUB-ASSEMBLY - PORT 12A SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375 PROFILE VERIFICATION	LASER	QA		J-1280	.351	854-R.U 08-22-06			A
*		Magnetic Permeability 1.02 Max	MASTER GAGE	QA		J-1165	<1.02	854-R.U 08-22-06			A
*		Interior Surface Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1152	28	854-R.U 08-22-06			A
*		Material Thickness: .500 +.04 / -.01"	CALIPER	QA		J-1099	.521	854-R.U 08-22-06			A
*		CLEANLINESS PER PS483		QA		VISUAL	VISUALLY ACCEPTAB	854-R.U 08-22-06			A
*		Flange face Finish 125 Micro-Inch RA	PROFILOMETER	QA		J-1152	80	854-R.U 08-22-06			A
*		Magnetic Permeability 1.2 Max (at flange we	MASTER GAGE	QA		J-1165	<1.02	854-R.U 08-22-06			A

Rev	By	Date	Description
1A	LAK	8/9/05	initial release
2A	LAK	10/14/05	moved films

Straddle Seam on the Inside
Locate Edge Flush to Flange



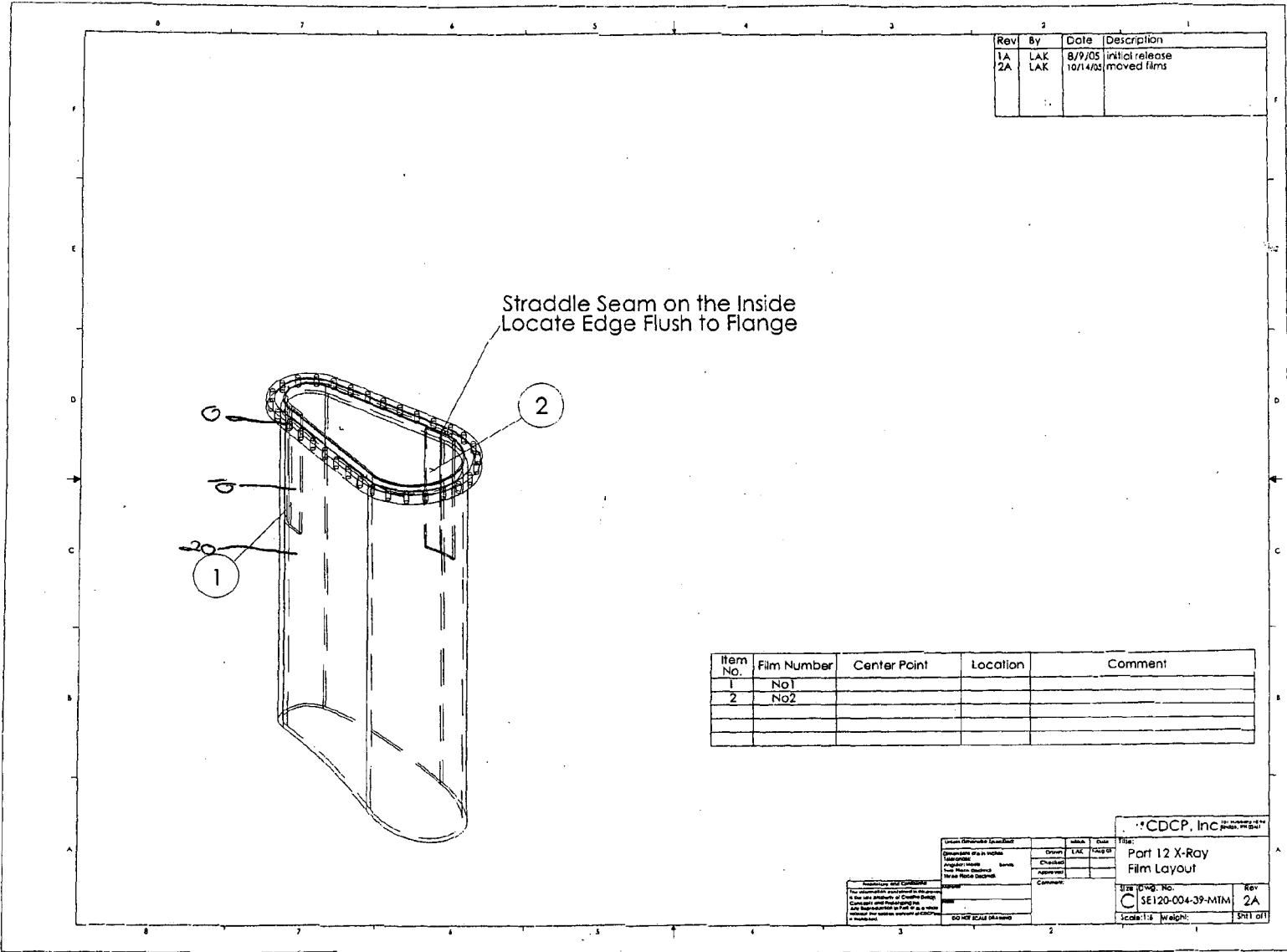
Item No.	Film Number	Center Point	Location	Comment
1	No1			
2	No2			

**CDCP, Inc. (12) 11/2004/01/01

Design Order/Order Specification Description: as per drawing Temperature: Exposure: Time: 10/14/05 Film: 10/14/05		Date: Time: Location: Operator: Checked: Approved:	THIS IS: Port 12 X-Ray Film Layout
Report/RFM/Control: The information contained herein is intended for the use and only for the use of the customer. It is not to be distributed outside the customer's organization.	Scale: 1:1 Weight:	Use Drawing No.: SE120-004-39-MTM	Rev: 2A

3 of 1

65678/9.0/313/10/818
 SE120-004 part 12A
 12/27/05
 Page 2 of 2



Rev	By	Date	Description
1A	LAK	8/9/05	initial release
2A	LAK	10/14/05	moved films

Straddle Seam on the Inside
Locate Edge Flush to Flange

Item No.	Film Number	Center Point	Location	Comment
1	No1			
2	No2			

CDCP, Inc.

Drawn	Checked	Scale	Date	File:
LAK	LAK	1:1	10/14/05	Part 12 X-Ray Film Layout
Approved	Approved			
Scale: 1:1	Weight:	Sheet:	Rev:	
			2A	

65678/9.0/313/30/818
SE 120-004 port 12A
1/4/06
Page 2 of 2

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 152

Workorder: 65678/9-0 Sub:3 Op:30

Part: SE120-004 PORT 12B - PORT 12B SUB-ASSEMBLY - PORT 12B SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

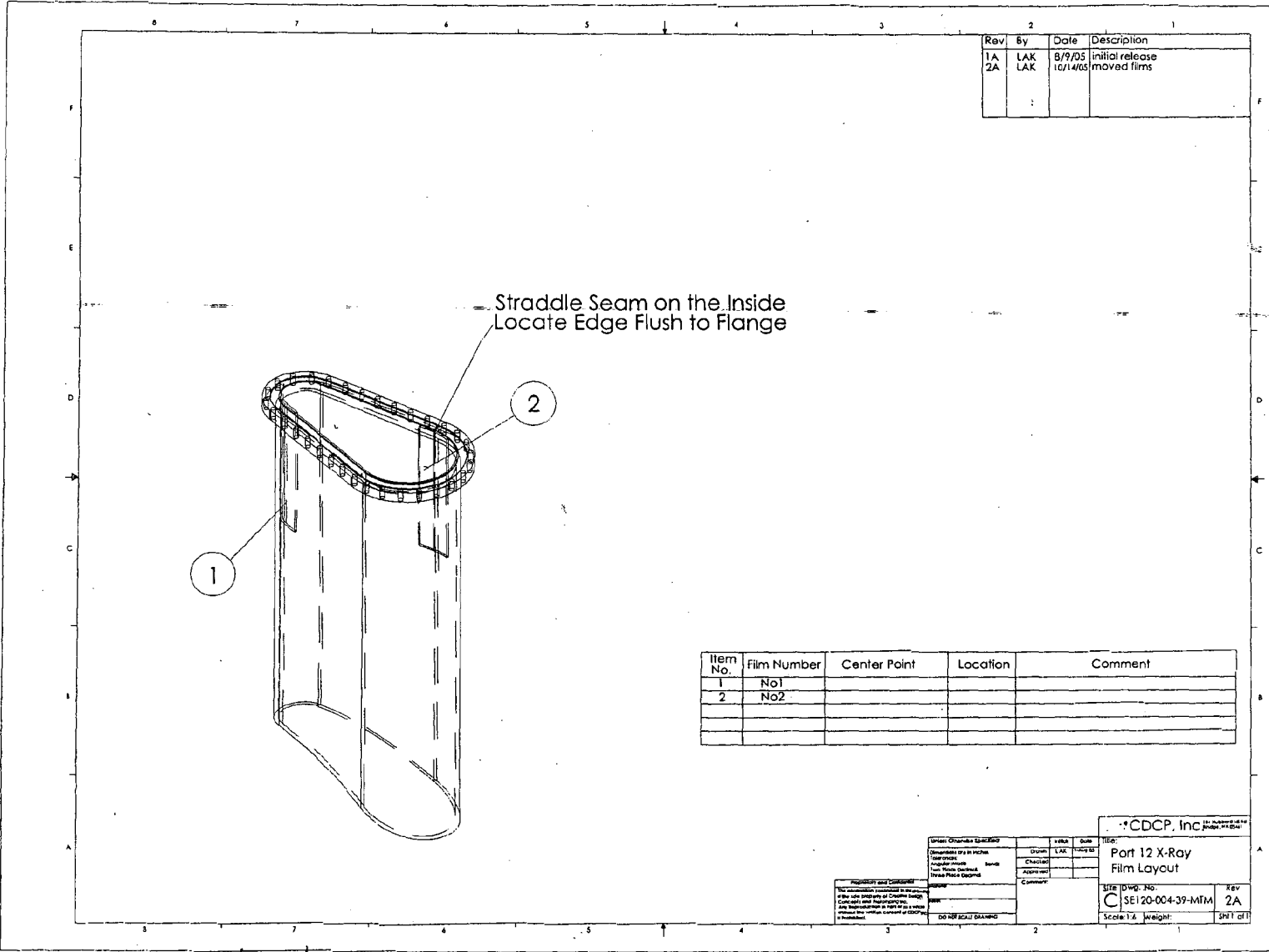
Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*				MFG		VISUAL	ACCEPTABLE PER CUMER DRAWING/SPECIFICATION REQUIREMENTS.	683-K.M	933-D.L		A
(10)		VWI ROOT PASS WELD P12B1		CWI				12-21-05	12-21-05		
*				MFG		VISUAL	ACCEPT	197-T.FI	933-D.L		A
(50)		VWI COVER PASS WELD P12B1		CWI				01-03-06	01-03-06		
*				MFG		VISUAL	ACCEPTABLE PER CUMER DRAWING/SPECIFICATION REQUIREMENTS.	791-D.W	933-D.L		A
(60)		VWI ROOT PASS WELD P12B2		CWI				12-22-05	12-21-05		
*				MFG		VISUAL	ACCEPTABLE	197-T.FI	933-D.L		A
(100)		VWI COVER PASS WELD P12B2		CWI				01-03-06	01-03-06		

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 153

Workorder: 65678/9-0 Sub:3 Op:40

Part: SE120-004 PORT 12B - PORT 12B SUB-ASSEMBLY - PORT 12B SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE120-004 Rev: 2		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	OK PER SPEC.	197-T.FI	840-G.M	
(20)		VWI - ROOT PASS P12BF		CWI				01-05-06	01-05-06	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(50)		VWI - COVER PASS P12BF		CWI				01-06-06	01-06-06	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	
(60)		VWI - FILLET WELDS P12BF		CWI				01-06-06	01-06-06	A



Rev	By	Date	Description
1A	LAK	8/9/05	initial release
2A	LAK	10/14/05	moved films

Straddle Seam on the Inside
Locate Edge Flush to Flange

Item No.	Film Number	Center Point	Location	Comment
1	No1			
2	No2			

*CDCP, Inc.

Drawn	Checked	Appr'd	Date
LAK	LAK	LAK	10/14/05


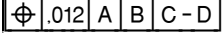
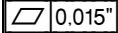
Port 12 X-Ray
Film Layout
SITE DWG. No.
SEI20-004-39-MFM
Scale 1:1 Weight: 2A
SHEET 1 of 1

65678/9.0/3/70/818
SEI20-004 part 12B
Page 2 of 2
1/9/06

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 156

Workorder: 65678/9-0 Sub:3 Op:80


Part: SE120-004 PORT 12B - PORT 12B SUB-ASSEMBLY - PORT 12B SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE122-018 Rev: 1				INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC		GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G6	 DIA. 0.531 THRU +/- 0.005" (32X)			MFG QA		PINS	.528	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (20)	G7	 DIA. .136 +/- .005 X .38 DP +/- .010" 8-32 UNC .25 DP +/- .010" (8X)		THREAD PLUG GA	MFG QA		A-74	ACCEPT	506-R.LI 01-12-06	503-B.H	A
1* (30)	D2			INDICATOR	MFG QA		P-920	.002	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (40)	D3	.149 +.000/-.008"		DEPTH MICROMET	MFG QA		P-926	.144	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (50)	D3	1.25 +/- .010"		OD MICROMETER	MFG QA		P-914	1.247	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (60)	C3	R .03 (tool radius) (2X)			MFG QA		GAGE	.03	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (70)	D3	.94 +/- .010"		CALIPER	MFG QA		P-925	.938 .940	234-E.B 01-11-06	503-B.H 01-12-06	A
1* (90)	G7	.471 +/- .005" (2X)		CALIPER	MFG QA		P-193	.467--.476	506-R.LI 01-12-06	503-B.H 01-12-06	A
1* (100)	G8	R 2.875 (verify tool path)			MFG QA		PGRM. #29203	ACCEPT	234-E.B 01-12-06	503-B.H 01-12-06	A
1* (150)	E3	BREAK CORNERS R .005 MIN (2X) (visual verification)			MFG		VISUAL	ACCEPT	506-R.LI 01-12-06		A
1* (160)	G5	R 5.563 (verify tool path)			MFG		PGRM.#29203	ACCEPT	234-E.B 01-12-06		A

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 157

Workorder: 65678/9-0 Sub:3 Op:120

Part: SE120-004 PORT 12B - PORT 12B SUB-ASSEMBLY - PORT 12B SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375 PROFILE VERIFICATION	LASER	QA		J-1280	.320	854-R.U 08-22-06			A
*		Magnetic Permeability 1.02 Max	MASTER GAGE	QA		J-1165	<1.02	854-R.U 08-22-06			A
*		Interior Surface Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1152	25	854-R.U 08-22-06			A
*		Material Thickness: .500 +.04 / -.01"	CALIPER	QA		J-1099	.511	854-R.U 08-22-06			A
*		CLEANLINESS PER PS483		QA		VISUAL	VISUALLY ACCEPTAB	854-R.U 08-22-06			A
*		Flange face Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1152	25	854-R.U 08-22-06			A
*		Magnetic Permeability 1.2 Max (at flange we	MASTER GAGE	QA		J-1165	<1.02	854-R.U 08-22-06			A

INSPECTION DATA CHECKLIST

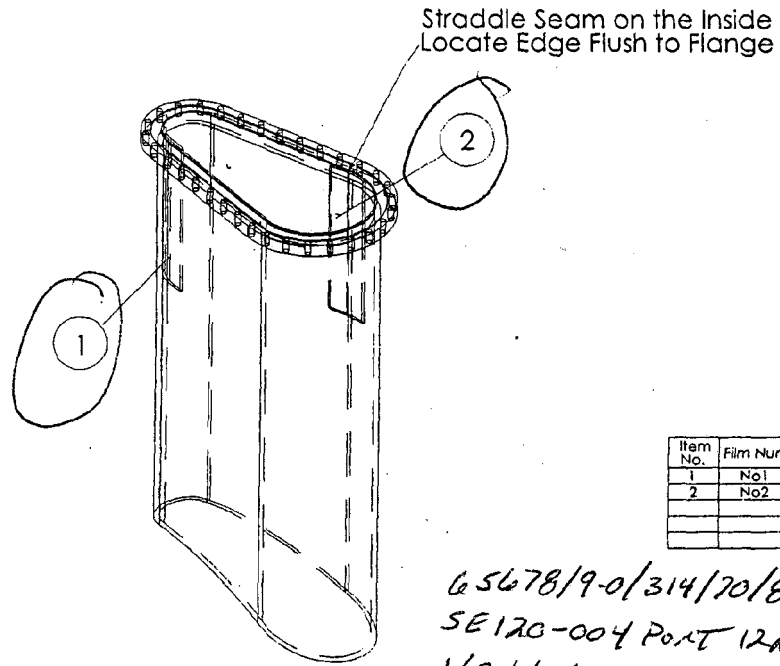
Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 158

Workorder: 65678/9-0 Sub:314 Op:40

Part: SE120-004 PORT 12B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	ACCEPT	837-J.D	933-D.L	
(20)		VWI - ROOT PASS P12BF		CWI				01-24-06	01-23-06	A
*				MFG		VISUAL	ACCEPT	837-J.D	933-D.L	
(50)		VWI - COVER PASS P12BF		CWI				01-24-06	01-25-06	A
*				MFG		VISUAL	O.K. PER CUSTOMER	771-B.S	933-D.L	
(60)		VWI - FILLET WELDS P12BF		CWI			EQUIREMENTS	01-25-06	01-25-06	A

Rev	By	Date	Description
1A	LAK	8/9/05	initial release
2A	LAK	10/1/06	moved films



Item No.	Film Number	Center Point	Location	Comment
1	No1			
2	No2			

65678/9-0/314/70/818
 SE120-004 Port 12B
 1/24/06
 Pg 2 of 2

<small>United States District Court Southern District of New York Eastern District of New York Southern District of New York Western District of New York New York County New York State New York State</small>		<small>FILED</small> <small>DATE</small> <small>CLERK</small>	<small>FILED</small> <small>DATE</small> <small>CLERK</small>	<small>CDCCP, Inc.</small> <small>1100 Avenue of the Americas New York, NY 10020-1097</small>
<small>The information contained in this document is the property of CDCCP, Inc. and is confidential. It is to be used only for the purposes stated herein. It is not to be disseminated outside of CDCCP, Inc. without the prior written consent of CDCCP, Inc.</small>		<small>DO NOT SCALE DRAWING</small>		<small>Scale: 1:4</small>
<small>CDCCP, Inc.</small>		<small>Port 12 X-Ray Film Layout</small>		<small>Rev 2A</small>
<small>SE120-004-39-MTM</small>		<small>Scale: 1:4</small>		<small>Sheet 1 of 1</small>

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 161

Workorder: 65678/9-0 Sub:314 Op:80


Part: SE120-004 PORT 12B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-018 Rev: 1				INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC		GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G6	\varnothing .030 A B C - D DIA. 0.531 THRU +/- 0.005" (32X)		CALIPER	MFG		P-925	.530X32 .005 ABC D	234-E.B	854-R.U	A
				INDICATOR	QA		P-920		01-25-06	01-25-06	
1* (20)	G7	\varnothing .012 A B C - D DIA. .136 +/- .005 X .38 DP +/- .010" 8-32 UNC .25 DP +/- .010" (8X)		THREAD PLUG GA	MFG		A-74	ACCEPT X.250 DP.X.3 80 DP. .010 TO A-B C-D	506-R.LI	503-B.H	A
				INDICATOR	QA		P-4101		01-26-06	01-26-06	
1* (30)	D2	\sphericalangle 0.015"		INDICATOR	MFG		P-920	.001	234-E.B	854-R.U	A
					QA				01-25-06	01-25-06	
1* (40)	D3	.149 +.000/-.008"		DEPTH MICROMET	MFG		P-200	.143	506-R.LI	503-B.H	A
					QA				01-26-06	01-26-06	
1* (50)	D3	1.25 +/- .010"		OD MICROMETER	MFG		P-914	1.254 TO 1.257	234-E.B	854-R.U	A
					QA				01-25-06	01-25-06	
1* (60)	C3	R .03 (tool radius) (2X)		RADIUS GAGE	MFG		P-4511	.03	506-R.LI	503-B.H	A
					QA				01-26-06	01-26-06	
1* (70)	D3	.94 +/- .010"		CALIPER	MFG		P-193	.939 TO .942	506-R.LI	503-B.H	A
					QA				01-26-06	01-26-06	
1* (90)	G7	.471 +/- .005" (2X)		CALIPER	MFG		P-193	.472--.476	506-R.LI	503-B.H	A
					QA				01-26-06	01-26-06	
1* (100)	G8	R 2.875 (verify tool path)			MFG		PGRM.29203	ACCEPT	506-R.LI	503-B.H	A
					QA				01-26-06	01-26-06	
1* (150)	E3	BREAK CORNERS R .005 MIN (2X) (visual verification)			MFG		VISUAL	ACCEPT	506-R.LI		A
									01-26-06		
1* (160)	G5	R 5.563 (verify tool path)			MFG		PGRM. 29203	ACCEPT	506-R.LI		A
									01-26-06		

Quality Assurance Documentation for Part ID: SE120-004 PORT 12B - Item: 162

Workorder: 65678/9-0 Sub:314 Op:120

Part: SE120-004 PORT 12B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375	LASER	QA		1444	-0.112 / +0.201 (ACCEPT PER N.C. 19172)	854-R.U			A
(10)		PROFILE VERIFICATION) [N/C:19172]	08-22-06			
*			MASTER GAGE	QA		J-1165	<1.02	854-R.U			A
(20)		Magnetic Permeability 1.02 Max						08-22-06			
*			PROFILOMETER	QA		J-1152	28	854-R.U			A
(30)		Interior Surface Finish 32 Micro-Inch RA						08-22-06			
*			CALIPER	QA		J-1099	.525	854-R.U			A
(40)		Material Thickness: .500 +.04 / -.01"						08-22-06			
*				QA		VISUAL	VISUALLY ACCEPTAB	854-R.U			A
(50)		CLEANLINESS PER PS483						08-22-06			
*			PROFILOMETER	QA		J-1152	26	854-R.U			A
(60)		Flange face Finish 32 Micro-Inch RA						08-22-06			
*			MASTER GAGE	QA		J-1165	<1.02	854-R.U			A
(70)		Magnetic Permeability 1.2 Max (at flange we						08-22-06			



4119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250675

 *** SHIPPING DEPT ***

CUSTOMER #: 38800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: P05-03984
 DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
 IN 46218
 BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

PREPAID/CHE: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
1	9	9pc. 34"lg	4"OD .250AW PIPE X 34"LG (-0+1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 6PCS PART# SE120-004 PORT 15 TAG: 3PCS PART# SE120-004 PORT FJS	EA 132793	81404C
				99716	
				99715	
2	6	6pc. 42"lg	4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT 17	EA 132793	81404C
				99721	

Re: 08.17.05 WX



6119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 38800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: POS-03984
 DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
 IN 46218
 BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QUANTITY	SHIP	DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
3	18	18 pcs. 52"lg		4"OD .250AW PIPE X 52"LG (-0,+1/2) FORM & TACK 625 58443 NO LONG SEAM BEVEL TAG: 1PC PART# SE120-004 PORT 17 5PC PART# SE120-004 PORT 18 4PC PART# SE120-004 PORT 2 6PC PART# SE120-004 PORT 8	EA 132793	81404C
4	1			CONTACT MAJOR TOOL TRANS. LT DEPT FOR SHIPPING INSTRUCTIONS 317-917-2604. REFERENCE PRIME CONTACT #0E-AC02-76-CH03073		
5	1			BAND PIPE TO WOODEN PALLETS LT & SHRINK WRAP COMPLETELY		

*9976A see last page for customer/
 vendor revision.*
 _____ 99726
 _____ 99723
 _____ 99724



4119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
7/21/05 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QUANTITY	B/O	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
6	1			MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT RECV. 31,500 8/9/05 CIC# 60160	
FORWARD INVOICE TO BOB JOACHIM @ BJOACHIM@MAJORTOOL.COM BALANCE OF FUNDS DUE NET 30 DAYS.						

RECEIVED BY [Signature]

DATE 8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fulton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in black ink that reads "Denise Hernandez". The signature is written in a cursive style with a large, looping "D" and "H".

Denise Hernandez
Sales Department

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 15 - Item: 164

Workorder: 65678/9-0 Sub:241 Op:20

Part: SE120-004 PORT 15 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40


Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-30-05	08-30-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 15 - Item: 166

Workorder: 65678/9-0 Sub:241 Op:50

Part: SE120-004 PORT 15 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	INDICATOR	QA		J-1294	.027	085-D.G 10-15-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 15 - Item: 168

Workorder: 65678/9-0 Sub:244 Op:20

Part: SE120-004 PORT 15 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40


Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-30-05	08-30-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 15 - Item: 170

Workorder: 65678/9-0 Sub:244 Op:50

Part: SE120-004 PORT 15 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		 0.06	INDICATOR	QA		J-1294	.035	085-D.G		
(40)								10-15-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 15A - Item: 171

Workorder: 65678/9-0 Sub:24 Op:10

Part: SE120-004 PORT 15A - PORT 15A SUB-ASSEMBLY - PORT 15A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P15AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI					12-13-05	
*		VWI - EXTERIOR FILLETS P15AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI					12-13-05	

Date: 5/3/2005

CERTIFICATE OF CONFORMANCE

I hereby certify that the products provided to **MAJOR TOOL & MACH.**

on Purchase Order **P05-00920**

and Varian Sales Order **319315350**

have been manufactured in accordance with all applicable Varian drawings and Varian specifications.

<u>ITEM</u>	<u>QTY.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
001	31	fa06000133	6.00" ADAPTER

27
05.06.05
95987 WX
line 2-33



5.9.05

Varian, Inc.

Mark L. Baribeault

Mark L. Baribeault
Quality Manager

Quality Assurance Documentation for Part ID: SE120-004 PORT 15B - Item: 174

Workorder: 65678/9-0 Sub:25 Op:10

Part: SE120-004 PORT 15B - PORT 15B SUB-ASSEMBLY - PORT 15B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P15BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI					12-13-05	
*		VWI - EXTERIOR FILLETS P15BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI					12-13-05	



4119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 36800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET
 INDIANAPOLIS
 IN 46218
 BUYER: BOB

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: P05-03984
 DEL ACT: DEL EST: 8/04/05
 SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET
 INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW
 MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP	DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
1	9	9pc. 34"lg		FORM & TACK PER APPLI. SECTIONS OF PS-489 REV# E BEST EFFORT ON DIM TOL AIM FOR A530 TACK USING ERNICRMO-3 (625). USE FEWEST TACKS POSSIBLE DEBURR EDGES PRIOR TO FORM	EA 132793	81404C
				NO LONG SEAM BEVEL TAG: 4PCS PART# SE120-004 PORT 15	99716	
				TAG: 3PCS PART# SE120-004 PORT FJS	99715	
2	6	6pc. 42"lg		4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT 17	EA 132793	81404C
					99721	

Rel: 08.17.05 wx



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 696-6000
(713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05
MACH S/O NUMBER 250875
*** SHIPPING DEPT ***

CUSTOMER #: 38800000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

GLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

Table with columns: ITEM, ORDER, QUANTITY, SHIP, DESCRIPTION, HEAT U/M NUMBER, MACH P.O. #. Includes handwritten notes like '18 pcs 52"lg', '9976A see last page for customer/vendor revision', and 'VJW'.



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
7/21/05 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS.
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QUANTITY	SHIP	DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
------	-------	----------	------	-------------	-----------------	-------------

6	1			MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT	
---	---	--	--	--	----	--

RECV. 31,500 8/9/05
CHK# 60160

FORWARD INVOICE TO
BOB JOACHIM @
BJOACHIM@MAJORTOOL.COM
BALANCE OF FUNDS DUE
NET 30 DAYS.

RECEIVED BY

DATE

8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fulton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in black ink that reads "Denise Hernandez". The signature is written in a cursive style with a large, looping "z" at the end.

Denise Hernandez
Sales Department

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 17 - Item: 178

Workorder: 65678/9-0 Sub:166 Op:20

Part: SE120-004 PORT 17 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-30-05	08-30-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 17 - Item: 180

Workorder: 65678/9-0 Sub:166 Op:50

Part: SE120-004 PORT 17 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		○ 0.06	HEIGHT GAGE	QA		J-530	.022	131-W.A 10-17-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 17 - Item: 182

Workorder: 65678/9-0 Sub:174 Op:20

Part: SE120-004 PORT 17 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-31-05	08-31-05	


A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 17 - Item: 184

Workorder: 65678/9-0 Sub:174 Op:50

Part: SE120-004 PORT 17 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	HEIGHT GAGE	QA		J-530	TOTAL .029	131-W.A 10-17-05		

A

Quality Assurance Documentation for Part ID: SE120-004 PORT 17A - Item: 185

Workorder: 65678/9-0 Sub:162 Op:10

Part: SE120-004 PORT 17A - PORT 17A SUB-ASSEMBLY - PORT 17A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P17AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI					12-13-05	
*		VWI - EXTERIOR FILLETS P17AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI					12-13-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 17B - Item: 186

Workorder: 65678/9-0 Sub:164 Op:10

Part: SE120-004 PORT 17B - PORT 17B SUB-ASSEMBLY - PORT 17B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P17BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI				12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P17BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI				12-13-05	12-14-05	



4119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 693-6000
 (713) 694-6725 FAX NUMBER

ORDER DATE: 7/21/05
 MACH S/O NUMBER: 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 38800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET
 INDIANAPOLIS, IN 46218
 BUYER: BOB

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: F05-03984
 DEL ACT: DEL EST: 8/04/05

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET
 INDIANAPOLIS, IN 46218
 ATTENTION:
 TAG #:
 TAG #:

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP DESCRIPTION	U/M	HEAT NUMBER	MACH P.O. #
1	9	9pc. 34"lg	4"OD .250AW PIPE X 34"LG (-0+1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 2PCS PART# SE120-004 PORT 15 TAG: 3PCS PART# SE120-004 PORT FJS	EA	132793	81404C
					99716	
					99715	
2	6	6pc. 42"lg	4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT '17	EA	132793	81404C
					99721	

REL: 08.17.05 WX



6119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
 7/21/05 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 38900000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: POS-03984
 DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
 IN 46218
 BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	QUANTITY	ORDER	S/O	SHIP	DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
3	18				4"OD .250AW PIPE X 52"LG (-0,+1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 1PC PART# SE120-004 PORT 17 5PC PART# SE120-004 PORT 18 4PC PART# SE120-004 PORT 2 5PC PART# SE120-004 PORT 8	EA 132793	81404C
					18 pcs. 52"lg 9976A see last page for customer/ vendor revision. 99726 99723 99724		
4	1				CONTACT MAJOR TOOL TRANS. LT DEPT FOR SHIPPING INSTRUCTIONS 317-917-2404. REFERENCE PRIME CONTACT *0E-AC02-76-CH03073		
5	1				BAND PIPE TO WOODEN PALLETS LT & SHRINK WRAP COMPLETELY		



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
7/21/05 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET
INDIANAPOLIS
IN 46218
BUYER: BOB

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: P05-0398A
DEL ACT: DEL EST: 8/04/05
SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET
INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QUANTITY	B/O	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
6	1			MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT	
FORWARD INVOICE TO BOB JOACHIM @ E.JOACHIM@MAJORTOOL.COM					RECV. 31,500 8/9/05 C/K# 60160	
BALANCE OF FUNDS DUE NET 30 DAYS.						

RECEIVED BY [Signature]
DATE 8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fulton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in black ink that reads "Denise Hernandez". The signature is written in a cursive style with a large, looping flourish at the end.

Denise Hernandez
Sales Department

Quality Assurance Documentation for Part ID: SE120-004 PORT 18 - Item: 188

Workorder: 65678/9-0 Sub:171 Op:20

Part: SE120-004 PORT 18 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	WELD ACCEPTABLE P CUSTOMER DRAWIN PECIFICATION REQUI EMENTS.	933-D.L	933-D.L	
(20)		VWI - COMPLETED WELD		CWI				09-09-05	09-09-05	


A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 18 - Item: 190

Workorder: 65678/9-0 Sub:171 Op:50

Part: SE120-004 PORT 18 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	HEIGHT GAGE	QA		J-530	.050	854-R.U 10-20-05		

A



4119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 39800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: P05-03984
 DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS-
 IN 46218
 BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QUANTITY	SHIP DESCRIPTION	U/M	HEAT NUMBER	MACH P.O. #
1	9	9pc. 34"lg	4"OD .250AW PIPE X 34"LG (-0+1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 3PCS PART# SE120-004 PORT 15 TAG: 3PCS PART# SE120-004 PORT FJS	EA	132793	81404C
					99716	
					99715	
2	6	6pc. 42"lg	4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT 17	EA	132793	81404C
					99721	

Rel: 08.17.05 WX



6119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
 7/21/05 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 38900000 SLSPRSN #: 10000
 SOLD TO: MAJOR TOOL & MACHINE INC. CUSTOMER ORDER NUMBER: POS-03984
 1458 E. 19TH. STREET DEL ACT: DEL EST: 8/04/05
 INDIANAPOLIS SHIP VIA: AFB F.O.B.: OUR PLANT
 IN 46218 FREIGHT BILL NUMBER:
 BUYER: BOB

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 INDIANAPOLIS TERMS: SEE BELOW
 IN 46218
 ATTENTION: MILL TEST REPORTS:
 TAG #: X WITH SHIPMENT
 TAG #: X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP	DESCRIPTION	U/M	HEAT NUMBER	MACH P.O. #
3	18	18 pcs. 52"lg		4"OD .250AW PIPE X 52"LG (-0,+1/2) FORM & TACK 625 80443 NO LONG SEAM BEVEL TAG: 1PC PART# SE120-004 PORT 17 5PC PART# SE120-004 PORT 18 4PC PART# SE120-004 PORT 2 4PC PART# SE120-004 PORT 8	EA	132793	81404C
4	1			CONTACT MAJOR TOOL TRANS. DEPT FOR SHIPPING INSTRUCTIONS 317-917-2604. REFERENCE PRIME CONTACT #DE-AC02-76-CH03073			
5	1			BAND PIPE TO WOODEN PALLETS & SHRINK WRAP COMPLETELY			

*9976A see last page for customer/
 vendor revision.*
 99726
 99723
 99724



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
7/21/05 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	--- QUANTITY --- ORDER S/O SHIP	DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
6	1	MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT	

REC'D. 31,500 8/19/05
CHK# 60160

FORWARD INVOICE TO
BOB JOACHIM @
BJOACHIM@MAJORTOOL.COM
BALANCE OF FUNDS DUE
NET 30 DAYS.

RECEIVED BY *Frank Smith*

DATE 8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fuiton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in cursive script that reads "Denise Hernandez".

Denise Hernandez
Sales Department

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 18 - Item: 192

Workorder: 65678/9-0 Sub:177 Op:20

Part: SE120-004 PORT 18 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-30-05	08-30-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 18 - Item: 194

Workorder: 65678/9-0 Sub:177 Op:50

Part: SE120-004 PORT 18 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		○ 0.06	HEIGHT GAGE	QA		J-530	.045	854-R.U 10-20-05		

A

Quality Assurance Documentation for Part ID: SE120-004 PORT 18A - Item: 195

Workorder: 65678/9-0 Sub:163 Op:10

Part: SE120-004 PORT 18A - PORT 18A SUB-ASSEMBLY - PORT 18A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P18AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P18AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 18A - Item: 196

Workorder: 65678/9-0 Sub:165 Op:10

Part: SE120-004 PORT 18A - PORT 18B SUB-ASSEMBLY - PORT 18B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		VWI - INTERIOR COVER PASS / FILLET P18BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(30)				CWI				12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P18BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L	A
(40)				CWI				12-13-05	12-14-05	



6119 FULTON / 77022
 P.O. BOX 130630
 HOUSTON, TEXAS 77219-0630
 (713) 695-6000
 (713) 694-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250675

 *** SHIPPING DEPT ***

CUSTOMER #: 38800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

SLSPRSN #: 10000
 CUSTOMER ORDER NUMBER: P05-03984
 DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS-
 IN 46218
 BUYER: BOE

SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORTS:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
1	9	9pc. 34"lg	4"OD .250AW PIPE X 34"LG (-0+1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 3PCS PART# SE120-004 PORT 15 TAG: 3PCS PART# SE120-004 PORT 15	EA 132793	81404C
				99716	
				99715	
2	6	6pc. 42"lg	4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT 17	EA 132793	81404C
				99721	

Rel: 08.17.05 wx



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE: 7/21/05
MACH S/O NUMBER: 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QTY	SHIP	DESCRIPTION	HEAT U/M	NUMBER	MACH P.O. #
3	18	18 pcs. 52"lg		4"OD .250AW PIPE X 52"LG (-0,+1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 1PC PART# SE120-004 PORT 17 5PC PART# SE120-004 PORT 18 4PC PART# SE120-004 PORT 2 5PC PART# SE120-004 PORT 8	EA	132793	81404C
4	1			CONTACT MAJOR TOOL TRANS. DEPT FOR SHIPPING INSTRUCTIONS 317-917-2404. REFERENCE PRIME CONTACT #DE-AC02-76-CH03073			
5	1			BAND PIPE TO WOODEN PALLETS & SHRINK WRAP COMPLETELY			

*99764 see last page for customer/
VENDOR REVISION.*

*99726
99723
99724*

VJW.

VJW.



4119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET
INDIANAPOLIS
IN 46218
BUYER: BOB

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05
SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET
INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QUANTITY	B/O	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
6	1			MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT	
FORWARD INVOICE TO BOB JOACHIM @ BJOACHIM@MAJORTOOL.COM? BALANCE OF FUNDS DUE NET 30 DAYS.					RECV. 31,500 8/9/05 C/L# 60160	

RECEIVED BY Frank J. Smith

DATE 8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fulton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in black ink that reads "Denise Hernandez". The signature is written in a cursive style with a large, looping "z" at the end.

Denise Hernandez
Sales Department

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 2 - Item: 198

Workorder: 65678/9-0 Sub:180 Op:20

Part: SE120-004 PORT 2 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				09-02-05	09-02-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 2 - Item: 200

Workorder: 65678/9-0 Sub:180 Op:50

Part: SE120-004 PORT 2 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*		○ 0.06	HEIGHT GAGE	QA		J-530	.050	854-R.U		
(40)								10-20-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 2 - Item: 202

Workorder: 65678/9-0 Sub:183 Op:20

Part: SE120-004 PORT 2 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40


Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-31-05	08-31-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 2 - Item: 204

Workorder: 65678/9-0 Sub:183 Op:50

Part: SE120-004 PORT 2 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	HEIGHT GAGE	QA		J-530	.048	085-D.G 10-17-05		

A

Quality Assurance Documentation for Part ID: SE120-004 PORT 2A - Item: 205

Workorder: 65678/9-0 Sub:6 Op:10

Part: SE120-004 PORT 2A - PORT 2A SUB-ASSEMBLY - PORT 2A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P2AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P2AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 2B - Item: 206

Workorder: 65678/9-0 Sub:7 Op:10

Part: SE120-004 PORT 2B - PORT 2B SUB-ASSEMBLY - PORT 2B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P2BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIRMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P2BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 4A - Item: 207

Workorder: 65678/9-0 Sub:8 Op:30

Part: SE120-004 PORT 4A - PORT 4A SUB-ASSEMBLY - PORT 4A SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	GOOD	280-K.S	933-D.L	
(10)		VWI ROOT PASS WELD 4A1-4A5		CWI				12-05-05	12-05-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(50)		VWI COVER PASS WELD 4A1-4A5		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	GOOD	280-K.S	933-D.L	
(60)		VWI ROOT PASS WELD 4A2-4A5		CWI				12-05-05	12-05-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(100)		VWI COVER PASS WELD 4A2-4A5		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	GOOD	280-K.S	933-D.L	
(110)		VWI ROOT PASS WELD 4A1-4A6		CWI				12-05-05	12-05-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(150)		VWI COVER PASS WELD 4A1-4A6		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	GOOD	280-K.S	933-D.L	
(160)		VWI ROOT PASS WELD 4A2-4A6		CWI				12-05-05	12-05-05	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(200)		VWI COVER PASS WELD 4A2-4A6		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	ACCEPTABLE	840-G.M	840-G.M	
(210)		VWI ROOT PASS WELD 4A3-4A5		CWI				12-09-05	12-09-05	A
*				MFG		VISUAL	GOOD	358-D.M	933-D.L	
(250)		VWI COVER PASS WELD 4A3-4A5		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	840-G.M	
(260)		VWI ROOT PASS WELD 4A4-4A5		CWI				12-07-05	12-09-05	A
*				MFG		VISUAL	GOOD	358-D.M	933-D.L	
(300)		VWI COVER PASS WELD 4A4-4A5		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	840-G.M	
(310)		VWI ROOT PASS WELD 4A3-4A6		CWI				12-07-05	12-09-05	A
*				MFG		VISUAL	GOOD	358-D.M	933-D.L	
(350)		VWI COVER PASS WELD 4A3-4A6		CWI				12-07-05	12-16-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	840-G.M	
(360)		VWI ROOT PASS WELD 4A4-4A6		CWI				12-07-05	12-09-05	A

INSPECTION DATA CHECKLIST

*	(400)	VWI COVER PASS WELD 4A4-4A6	MFG CWI	VISUAL	GOOD	358-D.M 12-07-05	933-D.L 12-16-05		A
*	(410)	VWI ROOT PASS WELD 4A CIRCUMFER	MFG CWI	VISUAL	OK PER SPEC.	093-M.S 12-11-05	933-D.L 12-12-05		A
*	(450)	VWI COVER PASS WELD 4A CIRCUMFE	MFG CWI	VISUAL	GOOD	358-D.M 12-16-05	933-D.L 12-16-05		A
*	(460)	VWI ROOT PASS WELD 4A1X	MFG CWI	VISUAL	GOOD	280-K.S 12-05-05	933-D.L 12-05-05		A
*	(500)	VWI COVER PASS WELD 4A1X	MFG CWI	VISUAL	OK	197-T.FI 12-07-05	933-D.L 12-16-05		A
*	(510)	VWI ROOT PASS WELD 4A4X	MFG CWI	VISUAL	OK PER SPEC.	093-M.S 12-07-05	840-G.M 12-09-05		A
*	(550)	VWI COVER PASS WELD 4A4X	MFG CWI	VISUAL	GOOD	358-D.M 12-07-05	933-D.L 12-16-05		A

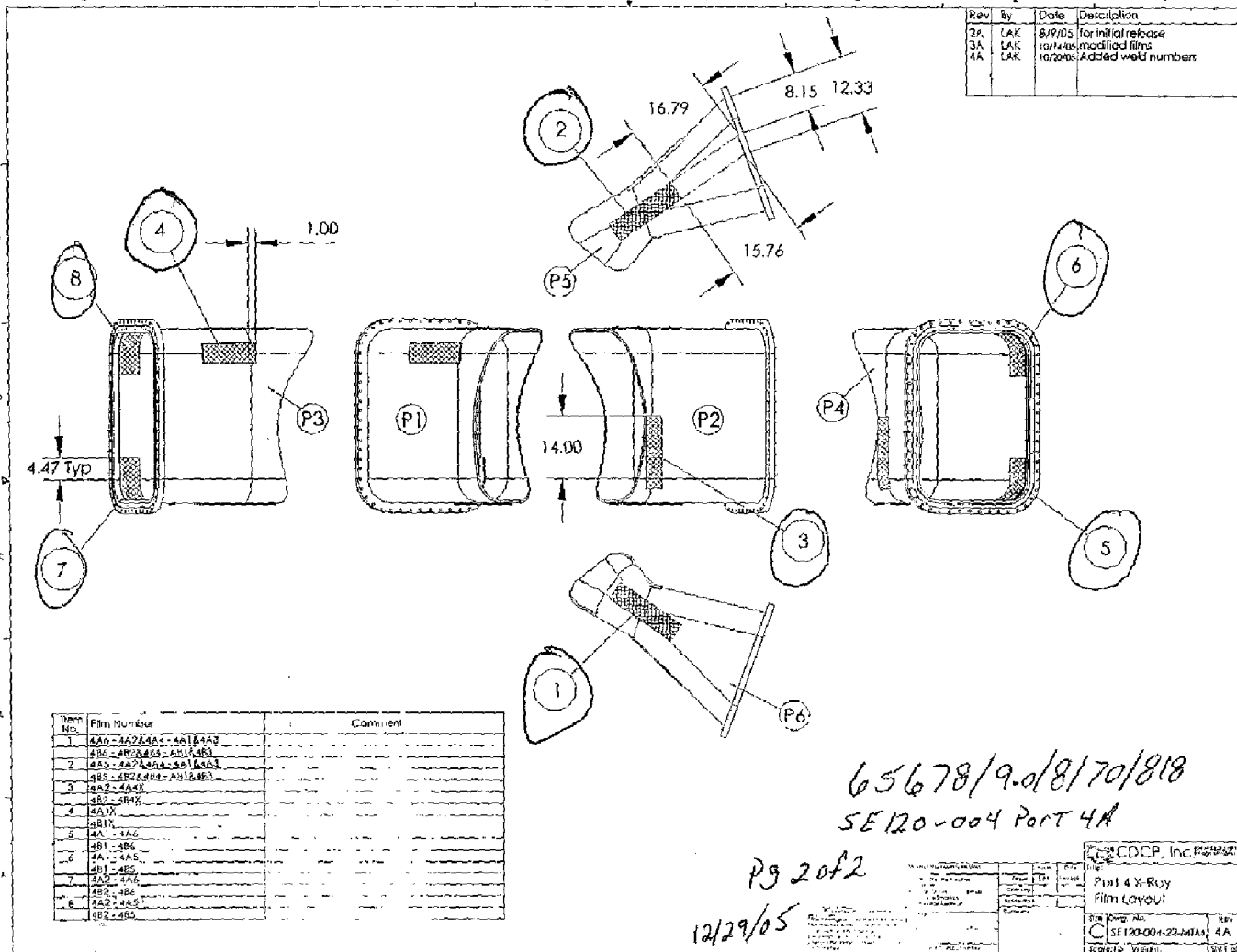
Quality Assurance Documentation for Part ID: SE120-004 PORT 4A - Item: 208

Workorder: 65678/9-0 Sub:8 Op:40

Part: SE120-004 PORT 4A - PORT 4A SUB-ASSEMBLY - PORT 4A SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	OK PER SPEC.	509-S.R	933-D.L	
(20)		VWI - ROOT PASS P4BF		CWI				12-22-05	12-22-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	581-D.E	
(50)		VWI - COVER PASS P4BF		CWI				12-27-05	12-27-05	A
*				MFG		VISUAL	OK PER SPEC.	093-M.S	581-D.E	
(60)		VWI - FILLET WELDS P4BF		CWI				12-27-05	12-27-05	A

MC114964.TIF2



Rev	By	Date	Description
2A	LAK	8/9/05	for initial release
3A	LAK	10/14/05	modified films
4A	LAK	10/20/05	Added weld number

Item No.	Film Number	Comment
1	4A6-4A24A4-4A16A3	
	4B6-4B24A4-4B16A3	
2	4A5-4A74A4-4A16A3	
	4B5-4B74A4-4B16A3	
3	4A2-4A4	
	4B2-4B4	
4	4A11	
	4B11	
5	4A5-4A6	
	4B1-4B6	
6	4A1-4A5	
	4B1-4B5	
7	4A5-4A6	
	4B5-4B6	
8	4A2-4A5	
	4B2-4B5	

65678/9.0/8/70/818
SE120-004 Part 4A

Pg 2 of 2
12/29/05

CDDP, Inc	
Part 4 X-Ray Film Layout	
File Name: SE120-004-22-MAX	Rev: 4A
Project: 12/29/05	Set of:

Quality Assurance Documentation for Part ID: SE120-004 PORT 4A - Item: 211

Workorder: 65678/9-0 Sub:8 Op:80


Part: SE120-004 PORT 4A - PORT 4A SUB-ASSEMBLY - PORT 4A SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	E5	$\varnothing .030$ A B C DIA. 0.531 THRU +/- 0.005" (60X)	INDICATOR	MFG QA		P-4101	.531----.533	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (20)	C7	1.18 +/- 0.010" (2x)	CALIPER	MFG QA		P-193	1.185---1.190 AFTER REWORK	854-R.U 08-19-06	503-B.H 01-09-06	A
1* (30)	H5	\sphericalangle 0.015"	INDICATOR	MFG QA		P-4101	.002	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (40)	C6	26.63 +/- 0.010"	INDICATOR	MFG QA		P-4101	26.628	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (50)	D7	37.63 +/- 0.010"	INDICATOR	MFG QA		P-4101	37.631	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (60)	B6	$\varnothing .012$ A B C 8-32 UNC .250DP	THREAD PLUG GA	MFG QA		A-74	ACCEPT	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (70)	G5	.94 +/-0.010" ALL AROUND	CALIPER	MFG QA		P-193	.940--.942	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (80)	H5	0.151 - 0.149 (0.153 +0/-0.003" on dwg) (leaves aprx 0.002" for polishing)	DEPTH MICROMET	MFG QA		P-200	.150--.1505	506-R.LI 01-09-06	503-B.H 01-09-06	A
1* (90)	H5	1.25 +/- .010"	OD MICROMETER	MFG QA		P-196	1.252---1.255	506-R.LI 01-09-06	503-B.H 01-09-06	A

Quality Assurance Documentation for Part ID: SE120-004 PORT 4A - Item: 212

Workorder: 65678/9-0 Sub:8 Op:120

Part: SE120-004 PORT 4A - PORT 4A SUB-ASSEMBLY - PORT 4A SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375 PROFILE VERIFICATION	CALIPER	QA		P-2056	ACC	503-B.H 01-24-06			A
*		Magnetic Permeability 1.02 Max	MASTER GAGE	QA		J-1270	1.05/1.10 (ACCEPT PER N.C. 17237)	854-R.U 08-19-06			A
*		Interior Surface Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1152	28	503-B.H 01-24-06			A
*		Material Thickness: .500 +.04 / -.01"	UT THICKNESS GA	QA		J-770-NDT	.510/.516	503-B.H 01-24-06			A
*		CLEANLINESS PER PS483		QA		VISUAL	ACCEPT	503-B.H 01-24-06			A
*		Magnetic Permeability 1.2 Max (at flange we	MASTER GAGE	QA		J-1270	LESS THAN 1.2	503-B.H 01-24-06			A

Quality Assurance Documentation for Part ID: SE120-004 PORT 4A - Item: 213

Workorder: 65678/9-0 Sub:9 Op:80

Part: SE120-004 PORT 4A - PORT 4B SUB-ASSEMBLY - PORT 4B SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	E5	$\varnothing .030$ A B C DIA. 0.531 THRU +/- 0.005" (60X)	CALIPER INDICATOR	MFG QA		P-193 P-4101	.530 .002 TO DATU M -A-	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (20)	C7	1.18 +/- 0.010" (2x)	CALIPER	MFG QA		P-925	1.178-.182	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (30)	H5	\sphericalangle 0.015"	INDICATOR	MFG QA		P-4101	.0015	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (40)	C6	26.63 +/- 0.010"	INDICATOR	MFG QA		P-4101	26.627	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (50)	D7	37.63 +/- 0.010"	INDICATOR	MFG QA		P-4101	37.631	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (60)	B6	$\varnothing 0.012$ A B C 8-32 UNC .250DP	THREAD PLUG GA	MFG QA		A-74	ACCEPT	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (70)	G5	.94 +/-0.010" ALL AROUND	CALIPER	MFG QA		P-193	.939 TO .940	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (80)	H5	0.151 - 0.149 (0.153 +0/-0.003" on dwg) (leaves aprx 0.002" for polishing)	DEPTH MICROMET	MFG QA		P-200	.150 TO .151	506-R.LI 01-14-06	854-R.U 01-14-06	A
1* (90)	H5	1.25 +/- .010"	OD MICROMETER	MFG QA		P-196	1.252 TO 1.259	506-R.LI 01-14-06	854-R.U 01-14-06	A

Quality Assurance Documentation for Part ID: SE120-004 PORT 4B - Item: 214

Workorder: 65678/9-0 Sub:9 Op:30

Part: SE120-004 PORT 4B - PORT 4B SUB-ASSEMBLY - PORT 4B SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(10)		VWI ROOT PASS WELD 4B1-4B5		CWI				12-20-05	12-20-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(50)		VWI COVER PASS WELD 4B1-4B5		CWI				12-23-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(60)		VWI ROOT PASS WELD 4B2-4B5		CWI				12-20-05	12-20-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(100)		VWI COVER PASS WELD 4B2-4B5		CWI				12-23-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(110)		VWI ROOT PASS WELD 4B1-4B6		CWI				12-20-05	12-20-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(150)		VWI COVER PASS WELD 4B1-4B6		CWI				12-23-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(160)		VWI ROOT PASS WELD 4B2-4B6		CWI				12-20-05	12-20-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(200)		VWI COVER PASS WELD 4B2-4B6		CWI				12-23-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(210)		VWI ROOT PASS WELD 4B3-4B5		CWI				12-21-05	12-21-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(250)		VWI COVER PASS WELD 4B3-4B5		CWI				12-22-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(260)		VWI ROOT PASS WELD 4B4-4B5		CWI				12-21-05	12-21-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(300)		VWI COVER PASS WELD 4B4-4B5		CWI				12-22-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(310)		VWI ROOT PASS WELD 4B3-4B6		CWI				12-21-05	12-21-05	
*				MFG		VISUAL	OK	197-T.FI	933-D.L	A
(350)		VWI COVER PASS WELD 4B3-4B6		CWI				12-22-05	01-07-06	
*				MFG		VISUAL	OK PER SPEC.	093-M.S	933-D.L	A
(360)		VWI ROOT PASS WELD 4B4-4B6		CWI				12-21-05	12-21-05	

INSPECTION DATA CHECKLIST

*	(400)	VWI COVER PASS WELD 4B4-4B6	MFG CWI	VISUAL	OK	197-T.FI 12-22-05	933-D.L 01-07-06		A
*	(410)	VWI ROOT PASS WELD 4B CIRCUMFER	MFG CWI	VISUAL	ACCEPTABLE TO CUS MER REQUIRERMENT	197-T.FI 01-03-06	933-D.L 01-04-06		A
*	(450)	VWI COVER PASS WELD 4B CIRCUMFE	MFG CWI	VISUAL	ACCEPTABLE	197-T.FI 01-06-06	933-D.L 01-07-06		A
*	(460)	VWI ROOT PASS WELD 4B1X	MFG		WELD NOT NEEDED	771-B.S 01-09-06			A
*	(500)	VWI COVER PASS WELD 4B1X	MFG		WELD NOT NEEDED	771-B.S 01-09-06			A
*	(510)	VWI ROOT PASS WELD 4B4X	MFG CWI	VISUAL	OK PER SPEC.	093-M.S 12-21-05	933-D.L 12-21-05		A
*	(550)	VWI COVER PASS WELD 4B4X	MFG CWI	VISUAL	OK	197-T.FI 12-22-05	933-D.L 01-07-06		A

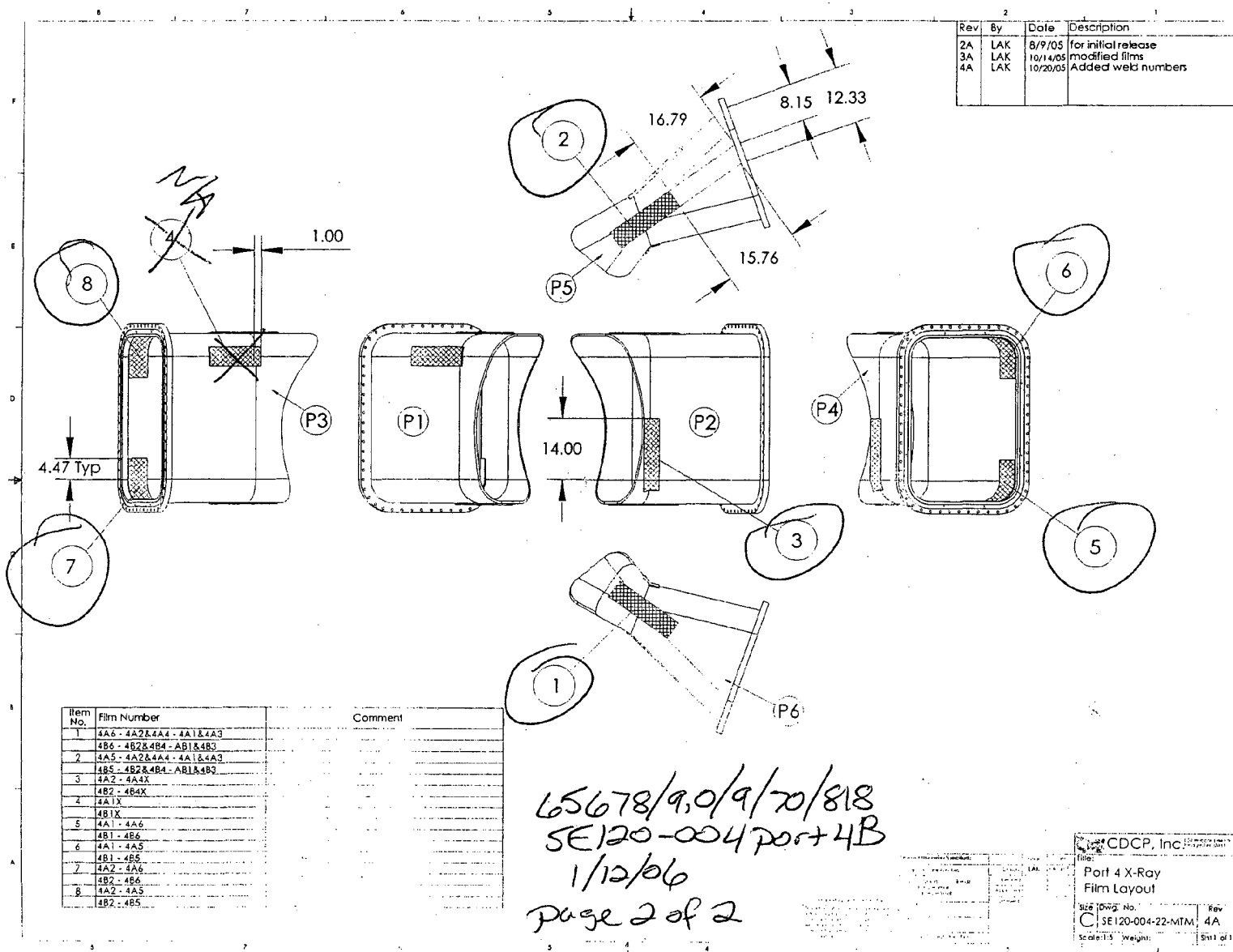
INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 4B - Item: 215

Workorder: 65678/9-0 Sub:9 Op:40

Part: SE120-004 PORT 4B - PORT 4B SUB-ASSEMBLY - PORT 4B SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	ACCEPTABLE TO SPE	197-T.FI	933-D.L	
(20)		VWI - ROOT PASS P4BF		CWI				01-07-06	01-09-06	A
*				MFG		VISUAL	ACCEPT	197-T.FI	933-D.L	
(50)		VWI - COVER PASS P4BF		CWI				01-09-06	01-09-06	A
*				MFG		VISUAL	OK	197-T.FI	933-D.L	
(60)		VWI - FILLET WELDS P4BF		CWI				01-10-06	01-09-06	A



Rev	By	Date	Description
2A	LAK	8/9/05	for initial release
3A	LAK	10/14/05	modified films
4A	LAK	10/20/05	Added weld numbers

Item No.	Film Number	Comment
1	4A6 - 4A2&4A4 - 4A1&4A3	
	4B6 - 4B2&4B4 - 4B1&4B3	
2	4A5 - 4A2&4A4 - 4A1&4A3	
	4B5 - 4B2&4B4 - 4B1&4B3	
3	4A2 - 4A1X	
	4B2 - 4B1X	
4	4A1X	
	4B1X	
5	4A1 - 4A6	
	4B1 - 4B6	
6	4A1 - 4A5	
	4B1 - 4B5	
7	4A2 - 4A6	
	4B2 - 4B6	
8	4A2 - 4A3	
	4B2 - 4B3	


65678/9.0/9/70/818
 SE120-004 port 4B
 1/12/06
 Page 2 of 2

CDCP, Inc.	
Port 4 X-Ray Film Layout	
Size DWG No.	Rev
SE120-004-22-MTM	4A
Scale: 1:1	Sheet 1 of 1

Quality Assurance Documentation for Part ID: SE120-004 PORT 4B - Item: 217

Workorder: 65678/9-0 Sub:9 Op:120

Part: SE120-004 PORT 4B - PORT 4B SUB-ASSEMBLY - PORT 4B SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375	HEIGHT GAGE	QA		J-55	.250	854-R.U			A
(10)		PROFILE VERIFICATION	INDICATOR			J-1035		01-30-06			
*			MASTER GAGE	QA		J-1165	WALL<1.02, FLANGE > 1.02 AND <1.03, GROOVE >1.03 AND < 1.04 (REF. 18097 SUB 1 45)	854-R.U			A
(20)		Magnetic Permeability 1.02 Max						01-30-06			
*			PROFILOMETER	QA		J-825	30	854-R.U			A
(30)		Interior Surface Finish 32 Micro-Inch RA						01-30-06			
*			CALIPER	QA		J-1099	.524	854-R.U			A
(40)		Material Thickness: 0.500 +.04 / -.01"						01-30-06			
*				QA		VISUAL	VISUALLY ACCEPTAB	854-R.U			A
(50)		CLEANLINESS PER PS483						01-30-06			
*			MASTER GAGE	QA		J-1165	<1.2	854-R.U			A
(60)		Magnetic Permeability 1.2 Max (at flange we						01-30-06			



6119 FULTON
P.O. BOX 120630
HOUSTON, TEXAS 77219
713/495-6000
FAX 713/496-6725
S/O NUMBER 250332

SOLD TO: HAYNES INTERNATIONAL
NORTHWOODS IND. PARK
12241 FM 529
HOUSTON,
TX 77041
P.O. NUMBER 1552

SHIP TO: HAYNES INTERNATIONAL
12241 FM 529
HOUSTON,
TX 77041
TAG #:

METALLURGICA
TEST REPORT
DATE 3/28/0
PAGE

ITEM	DESCRIPTION	FORM & TACK ENDS	MATERIAL	SPEC	BASE SPEC	PIECES
001	8"OD, 188AW PIPE X 28"LG	SQUARE &	625	8443	S8443	
004	6"OD, 188AW PIPE X 28"LG	SQ & DEBURRED	625	8443	S8443	
005	4"OD, 188AW PIPE X 34"LG FORM	& TACK ENDS SQ & DEBURRED	625	8443	S8443	

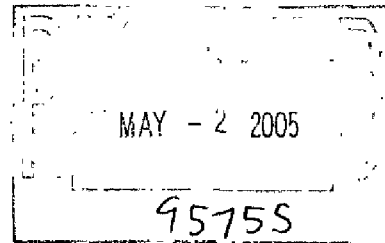
ITEM	HEAT #	C	MN	P	S	SI	CR	NI	MO	CU	CO	CB&TA	N	FE	V	W
001	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		
004	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		
005	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		

ITEM	AL	TI	SN	PR	ZN	AS	MG	ALATI	G	BASE MATERIAL MANUFACTURER	M.S.N.
001	.210	.290								HAYNES INTERNATIONAL	
004	.210	.290								HAYNES INTERNATIONAL	
005	.210	.290								HAYNES INTERNATIONAL	

ITEM	YIELD	TENSILE	ELONG		R/A	SHM	HEAT TREAT		Q&CH	IMPACT TEST	SIZE (10mm X)	TEMP DEG-F	RESULTS (FT/LBS)			LATERAL EXPANSION			% DUCTILE FRACTURE	
			2	8			TEMP	TIME					TYPE	1	2	3	1	2	3	1
001	60,500	121,000	51.0			235														
004	60,500	121,000	51.0			235														
005	60,500	121,000	51.0			235														

HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5
HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5
HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5

LABOR ONLY TO MANUFACTURE FROM CUSTOMER'S MATERIAL
***** MADE IN THE USA *****



5/2/05



1-12
B.A.

NOTARIZED MILL TEST REPORTS AVAILABLE UPON REQUEST.

*W-WATER
A-AIR
FC-FURNACE COOL
O-OIL
QT-AIR QUENCH
AND 1250F TEMPER

WE CERTIFY THAT ALL CHEMICAL ANALYSIS, MECHANICAL PROPERTIES, TEST RESULTS AND STATEMENTS OF PERFORMANCE OPERATIONS RECORDED HEREIN, ARE ACCORDING TO THE RECORDS OF MACH INTERNATIONAL. MATERIALS HEREIN ST. ARE IN COMPLIANCE WITH ALL SPECIFICATIONS LISTED ABOVE.

DATE 3/28/05 SIGNATURE *[Signature]*

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 5 - Item: 220

Workorder: 65678/9-0 Sub:186 Op:34

Part: SE120-004 PORT 5 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)		Mag. Perm: 1.02 Mu Max						08-16-05			
*			CALIPER	QA		J-707	.030	840-G.M			A
(20)		ROUNDNESS WITHIN .030"						08-16-05			

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 5 - Item: 222

Workorder: 65678/9-0 Sub:189 Op:20

Part: SE120-004 PORT 5 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL ACCEPT PER	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			PS-480 WPS 380 PPPL	06-21-05	06-21-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 5 - Item: 224

Workorder: 65678/9-0 Sub:189 Op:34

Part: SE120-004 PORT 5 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)		Mag. Perm: 1.02 Mu Max						08-16-05			
*			CALIPER	QA		J-1103	.010	840-G.M			A
(20)		ROUNDNESS WITHIN .030"						08-16-05			

Quality Assurance Documentation for Part ID: SE120-004 PORT 5A - Item: 225

Workorder: 65678/9-0 Sub:10 Op:10

Part: SE120-004 PORT 5A - PORT 5A SUB-ASSEMBLY - PORT 5A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P5AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-29-05	09-29-05		
*		VWI - EXTERIOR FILLETS P5AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-29-05	09-29-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 5B - Item: 227

Workorder: 65678/9-0 Sub:11 Op:10

Part: SE120-004 PORT 5B - PORT 5B SUB-ASSEMBLY - PORT 5B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P5BF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				10-04-05	10-04-05		
*		VWI - EXTERIOR FILLETS P5BF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				10-04-05	10-04-05	

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 6 - Item: 229

Workorder: 65678/9-0 Sub:192 Op:20

Part: SE120-004 PORT 6 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL ACCEPT PER	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			PS-480 WPS 380 PPPL	06-21-05	06-21-05	

A

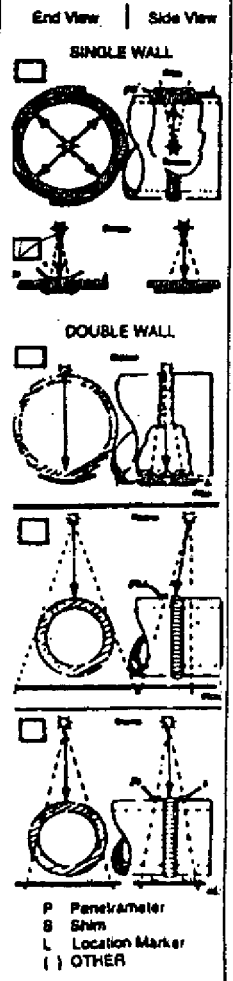


4959

10520 Chester Road
Woodlawn, Ohio 45215

CLIENT Major Tool + Machine		INTERPRETER/LEVEL Robert Weaver/II		RADIOGRAPHER Robert Weaver		JOB NO 13850050-2		P.O. NO		DATE 7/16/05	
ISOTOPE/RAY IR192	DIA. X LEN/KV .118" X .094"	CURIES/MA 56	FOCAL SPOT SIZE .151"	SFD 15"	SCD 14.8125	TIME 1:45	FILM PROCESSING Auto	FILM TYPE Kodak T	FILM TECHNIQUE Double	PB SCREENS .010"	
WELD PROCESS PAW-MAC		MATERIAL SPEC. 625 Inconel		MATERIAL DIAMETER 8"		MATERIAL THICKNESS .1875"		PENETRATOR ASTM 1A		SHIM N/A	
DESCRIPTION 65678/9.0/192/30/818 SE120-004 part 6		REMARKS ASME VIII Div. 1 UW-51									

FITTING, SEAM OR FITTING	FILM INTERVAL NUMBER	WELDER IDENTIFICATION	PENETRATOR		SLAG	POROSITY	POROSITY WITH TAIL	CRACK	LACK OF PEN	LACK FUSION	INTERNAL CONVEXITY	INTERNAL CONCAVITY	TUNGSTEN	MELT-THROUGH	BURN-THROUGH	CRATER-PT	OXIDATION	INTERNAL UNDERCUT	EXTERNAL UNDERCUT	ALIGNED INDICATIONS	WELD CONTOUR	IMS MATCH	FILM ARTIFACT	VISUAL CONCERNS	FILM DENSITY	SEE REMARKS	ACCEPT	REJECT	
			SIZE	QUALITY LEVEL																									
Seam	0-1	J.S.	1A	.008"																									
↓	1-2	↓	↓	↓																									



Robert Weaver 655514/II
Cooperheat-MQS Signature

Douglas P. Edwards
Customer Representative Signature

7/16/05
Date

MC110321.TIF1

Quality Assurance Documentation for Part ID: SE120-004 PORT 6 - Item: 231

Workorder: 65678/9-0 Sub:192 Op:34

Part: SE120-004 PORT 6 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)								08-16-05			
*		ROUNDNESS WITHIN .060"	CALIPER	QA		J-1103	.053	840-G.M			A
(20)									08-16-05		

Quality Assurance Documentation for Part ID: SE120-004 PORT 6 - Item: 233

Workorder: 65678/9-0 Sub:197 Op:20

Part: SE120-004 PORT 6 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL ACCEPT PER	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			PS-480 WPS 380 PPPL	06-21-05	06-21-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 6 - Item: 235

Workorder: 65678/9-0 Sub:197 Op:34

Part: SE120-004 PORT 6 - TUBE, 10.0 OD X 0.188 WALL - SE120-004-19 TUBE, 10.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)								08-16-05			
*		ROUNDNESS WITHIN .060"	CALIPER	QA		J-1103	.060	840-G.M			A
(20)									08-16-05		

Quality Assurance Documentation for Part ID: SE120-004 PORT 6A - Item: 237

Workorder: 65678/9-0 Sub:12 Op:10

Part: SE120-004 PORT 6A - PORT 6A SUB-ASSEMBLY - PORT 6A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P6AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-30-05	09-30-05		
*		VWI - EXTERIOR FILLETS P6AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-30-05	09-30-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 6B - Item: 238

Workorder: 65678/9-0 Sub:13 Op:10

Part: SE120-004 PORT 6B - PORT 6B SUB-ASSEMBLY - PORT 6B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P6BF		MFG		VISUAL	ACCEPTABLE	933-D.L	933-D.L		A
(30)				CWI				09-29-05	09-29-05		
*		VWI - EXTERIOR FILLETS P6BF		MFG		VISUAL	ACCEPTABLE	933-D.L	933-D.L		A
(40)					CWI				09-29-05	09-29-05	



2119 FULTON
P.O. BOX 120430
HOUSTON, TEXAS 77215
713/86-4000
FAX 713/86-6725
S/O NUMBER 250332

BUILD TO: HAYNES INTERNATIONAL
NORTHWOODS IND PARK
12241 FM 529
HOUSTON,
TX 77041
P.O. NUMBER 1552

DRIF TO: HAYNES INTERNATIONAL
12241 FM 529
HOUSTON,
TX 77041
TAG #:

METALLURGIC
TEST REPORT
DATE 3/22/05
PAGE

ITEM	DESCRIPTION	MATERIAL	SPEC	BASE SPEC	PIECES
001	8"OD, 1834W PIPE X 28"LG	FORM & TACK ENDS SQUARE &	825	B443	SB443
004	8"OD, 1834W PIPE X 28"LG	FORM & TACK ENDS SQ & DEBURRED	825	B443	SB443
005	8"OD 1834W PIPE X 34"LG FORM	& TACK ENDS SQ & DEBURRED	825	B443	SB443

ITEM	HEAT #	C	MN	P	S	SI	CR	NI	MO	CU	CO	CB&TA	N	FE	V	U
001	2450-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.220	3.430		4.480		
004	2450-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.220	3.430		4.480		
005	2450-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.220	3.430		4.480		

ITEM	AL	TI	SM	PB	ZN	AS	MG	ALATI	O	BASE MATERIAL MANUFACTURER	H S N.
001	.210	.290								HAYNES INTERNATIONAL	
004	.210	.290								HAYNES INTERNATIONAL	
005	.210	.290								HAYNES INTERNATIONAL	

ITEM	YIELD	TENSILE	ELONG		R7A	8MM	HEAT TREAT		QUENCH	IMPACT		RESULTS			LATERAL EXPANSION			K QUCTILE FRACTURE	
			2	5			TEMP	TIME		TEST TYPE	SIZE (10mm X)	TEMP DEG-F	1	2	3	1	2	3	1
001	60,500	121,000	51.0																
004	60,500	121,000	51.0																
005	60,500	121,000	51.0																

HT# 2450-4-6731 (TA) = <.05
 GRAIN SIZE = 4.5
 HT# 2450-4-6731 (TA) = <.05
 GRAIN SIZE = 4.5
 HT# 2450-4-6731 (TA) = <.05
 GRAIN SIZE = 4.5

LABOR ONLY TO MANUFACTURE FROM CUSTOMER'S MATERIAL
 ***** MADE IN THE USA *****

MAY - 2 2005
 95756

MTM 09
 5/2/05

NOTARIZED WILL TEST REPORTS AVAILABLE UPON REQUEST.

W-WATER
 A-AIR
 FC-FURNACE COOL
 O-OIL
 Q1-AIR QUENCH
 AND 1250F TEMPER

WE CERTIFY THAT ALL CHEMICAL ANALYSIS, MECHANICAL PROPERTIES, TEST RESULTS AND STATEMENTS OF PERFORMED OPERATIONS RECORDED HEREIN, ARE ACCORDING TO THE RECORDS OF MACH INTERNATIONAL. MATERIALS HEREIN STAY ARE IN COMPLIANCE WITH ALL SPECIFICATIONS LISTED ABOVE.

DATE 3/28/05 SIGNATURE *[Signature]*

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 7 - Item: 240

Workorder: 65678/9-0 Sub:202 Op:20

Part: SE120-004 PORT 7 - TUBE, 8.0 OD X 0.188 WALL - SE120-004-18 TUBE, 8.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL ACCEPT PER	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			PS-480 WPS 380 PPPL	06-21-05	06-21-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 7 - Item: 242

Workorder: 65678/9-0 Sub:202 Op:34

Part: SE120-004 PORT 7 - TUBE, 8.0 OD X 0.188 WALL - SE120-004-18 TUBE, 8.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)		Mag. Perm: 1.02 Mu Max						08-16-05			
*			CALIPER	QA		J-1103	.056	840-G.M			A
(20)		ROUNDNESS WITHIN .060"						08-16-05			

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 7 - Item: 245

Workorder: 65678/9-0 Sub:208 Op:34

Part: SE120-004 PORT 7 - TUBE, 8.0 OD X 0.188 WALL - SE120-004-18 TUBE, 8.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)		Mag. Perm: 1.02 Mu Max						08-16-05			
*			CALIPER	QA		J-1103	.050	840-G.M			A
(20)		ROUNDNESS WITHIN .060"						08-16-05			

Quality Assurance Documentation for Part ID: SE120-004 PORT 7A - Item: 246

Workorder: 65678/9-0 Sub:14 Op:10

Part: SE120-004 PORT 7A - PORT 7A SUB-ASSEMBLY - PORT 7A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P7AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P7AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: Frank Malinowski

E-Mail: fmalinowski@pppl.gov

Telephone: 609-243-2441

Fax: 609-243-2021

Part: / SE122-112-3 (CF BLANK FLANGE)

Drawing ID: SE122-113

Revision: 0

Customer P.O.: S005243-F

Serial No./Qty: N/A

Reported By: DOUG MCCORKLE

E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433

Fax: 317-634-9420

Problem: Magnetic Permeability requirement 1.02 Max
Checks >1.05, but < 1.1

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____

Quality Assurance Documentation for Part ID: SE120-004 PORT 7B - Item: 250

Workorder: 65678/9-0 Sub:15 Op:10

Part: SE120-004 PORT 7B - PORT 7B SUB-ASSEMBLY - PORT 7B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P7BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P7BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	



4119 FULTON / 77022
 P.O. BOX 130430
 HOUSTON, TEXAS 77219-0430
 (713) 695-6000
 (713) 596-6725 FAX NUMBER

ORDER DATE: 7/21/05
 MACH S/O NUMBER: 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 30800000
 SOLD TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH STREET

SHIPMENT #: 10000
 CUSTOMER ORDER NUMBER: POS-03984
 OFL ALI: DELIST: 9/04/05

INDIANAPOLIS
 IN 46218
 BUYER: BOB

SHIP VIA: AFB F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
 1458 E. 19TH STREET

PREPAID/CHG: PREPAID/COLLECT: COLLECT: X
 TERMS: SEE BELOW

INDIANAPOLIS
 IN 46218
 ATTENTION:
 TAG #:
 TAG #:

MILL TEST REPORT:
 X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
1	9	9pc. 34"lg	4"OD .2500W PIPE X 34"LG (-0 F1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 3PCS PART# SE120-004 PART 15 TAG: 3PCS PART# SE120-004 PART 17	EA 132793	814040
				99716	
				99715	
2	6	6pc. 42"lg	4"OD .2500W PIPE X 42"LG (-0 F1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PART 17	EA 132793	814040
				99721	

Rel: 08.17.05 WX



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 495-6000
(713) 496-6725 FAX NUMBER

ORDER DATE 7/21/05
MACH S/O NUMBER 250875
*** SHIPPING DEPT ***

CUSTOMER #: 38800000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

Table with columns: ITEM, ORDER, QUANTITY, SHIP, DESCRIPTION, U/M, HEAT NUMBER, MACH P.O. #. Includes handwritten notes like '18 pcs 52"lg', '99726 see last page for customer/vendor revision', and '99726', '99723', '99724'.



6119 FULTON / 77022
P.O. BOX 130630
HOUSTON, TEXAS 77219-0630
(713) 695-6000
(713) 696-6725 FAX NUMBER

ORDER DATE MACH S/O NUMBER
7/21/05 250875

*** SHIPPING DEPT ***

CUSTOMER #: 38900000
SOLD TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

SLSPRSN #: 10000
CUSTOMER ORDER NUMBER: POS-03984
DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS
IN 46218
BUYER: BOB

SHIP VIA: ABF F.O.B.: OUR PLANT
FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC.
1458 E. 19TH. STREET

PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
TERMS: SEE BELOW

INDIANAPOLIS
IN 46218
ATTENTION:
TAG #:
TAG #:

MILL TEST REPORTS:
X WITH SHIPMENT
X WITH INVOICE
NOT REQUIRED

ITEM	ORDER	QUANTITY	B/O	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
------	-------	----------	-----	------------------	-----------------	-------------

6	1			MTM TO PAY \$31,500.00 PRIOR TO SHIPMENT	LT	
---	---	--	--	--	----	--

RECV. 31,500 8/9/05
CHK# 60160

FORWARD INVOICE TO
BOB JOACHIM @
BJOACHIM@MAJORTOOL.COM
BALANCE OF FUNDS DUE
NET 30 DAYS.

RECEIVED BY Frank L. Smith

DATE 8-9-05

DECLARED VALUE IS ----- \$48,400.00



6119 Fulton Street
P. O. Box 130630
Houston, Texas 77219
(713) 695-6000
(800) 231-6823
(713) 696-6725 Fax

August 18, 2005

To: Major Tool & Machine

Attn: Dave Wilkinson

Re: **Marking Authorization**
Major Tool Po# P05-03984
Mach S/O# 250875

Dear Dave,

The Quality Control Department at Mach Industrial Group states the following material 4"OD .250AW Pipe x 52"LG Port 17, needs to be marked as follows:

4"OD .250AW Pipe x 52"LG Port 18 HT#132793

Let me know if we can help in any other way.

Sincerely,

A handwritten signature in black ink that reads "Denise Hernandez". The signature is written in a cursive style with a large, looping flourish at the end.

Denise Hernandez
Sales Department

Quality Assurance Documentation for Part ID: SE120-004 PORT 8 - Item: 255

Workorder: 65678/9-0 Sub:212 Op:20

Part: SE120-004 PORT 8 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	WELD ACCEPTABLE P CUSTOMER DRAWIN PECIFICATION REQUI EMENTS.	933-D.L	933-D.L	
(20)		VWI - COMPLETED WELD		CWI				09-09-05	09-09-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 8 - Item: 257

Workorder: 65678/9-0 Sub:212 Op:50

Part: SE120-004 PORT 8 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		○ 0.06	HEIGHT GAGE	QA		J-530	.050	854-R.U 10-20-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 8 - Item: 259

Workorder: 65678/9-0 Sub:215 Op:20

Part: SE120-004 PORT 8 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	WELD ACCEPTABLE P CUSTOMER DRAWIN PECIFICATION REQUI EMENTS.	933-D.L	933-D.L	
(20)		VWI - COMPLETED WELD		CWI				09-09-05	09-09-05	


A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 8 - Item: 261

Workorder: 65678/9-0 Sub:215 Op:50

Part: SE120-004 PORT 8 - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	HEIGHT GAGE	QA		J-530	.055	854-R.U 10-20-05		

A

Quality Assurance Documentation for Part ID: SE120-004 PORT 8A - Item: 262

Workorder: 65678/9-0 Sub:16 Op:10

Part: SE120-004 PORT 8A - PORT 8A SUB-ASSEMBLY - PORT 8A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P8AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P8AF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 8B - Item: 265

Workorder: 65678/9-0 Sub:17 Op:10

Part: SE120-004 PORT 8B - PORT 8B SUB-ASSEMBLY - PORT 8B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P8BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS P8BF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	



6119 FULTON
P.O. BOX 120630
HOUSTON, TEXAS 77219
713/495-6000
FAX 713/496-6725
S/O NUMBER 250332

SOLD TO: HAYNES INTERNATIONAL
NORTHWOODS IND. PARK
12241 FM 529
HOUSTON,
TX 77041
P.O. NUMBER 1552

SHIP TO: HAYNES INTERNATIONAL
12241 FM 529
HOUSTON,
TX 77041
TAG #:

METALLURGICA
TEST REPORT
DATE 3/28/0
PAGE

ITEM	DESCRIPTION	FORM & TACK	ENDS	SQUARE &	MATERIAL	SPEC	BASE SPEC	PIECES
001	8"OD, 188AW PIPE X 28"LG	FORM & TACK	ENDS	SQUARE &	625	8443	S8443	
004	6"OD, 188AW PIPE X 28"LG	FORM & TACK	ENDS	SQ & DEBURRED	625	8443	S8443	
005	4"OD, 188AW PIPE X 34"LG FORM	& TACK	ENDS	SQ & DEBURRED	625	8443	S8443	

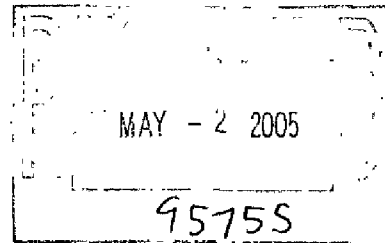
ITM	HEAT #	C	MN	P	S	SI	CR	NI	MO	CU	CO	CB&TA	N	FE	V	W
001	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		
004	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		
005	2650-4-6731	.020	.260	.008		.200	21.510	59.880	8.590		.230	3.430		4.680		

ITM	AL	TI	SN	PR	ZN	AS	MG	ALATI	G	BASE MATERIAL MANUFACTURER	M.S.N.
001	.210	.290								HAYNES INTERNATIONAL	
004	.210	.290								HAYNES INTERNATIONAL	
005	.210	.290								HAYNES INTERNATIONAL	

ITM	YIELD	TENSILE	ELONG		R/A	SHM	HEAT TREAT		Q&CH	IMPACT TEST	SIZE (10mm X)	TEMP DEG-F	RESULTS (FT/LBS)			LATERAL EXPANSION			% DUCTILE FRACTURE	
			2	8			TEMP	TIME					TYPE	1	2	3	1	2	3	1
001	60,500	121,000	51.0			235														
004	60,500	121,000	51.0			235														
005	60,500	121,000	51.0			235														

HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5
HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5
HT# 2650-4-6731 (TA) = <.05
GRAIN SIZE = 4.5

LABOR ONLY TO MANUFACTURE FROM CUSTOMER'S MATERIAL
***** MADE IN THE USA *****



5/2/05



1-12
B.A.

NOTARIZED MILL TEST REPORTS AVAILABLE UPON REQUEST.

*W-WATER
A-AIR
FC-FURNACE COOL
O-OIL
QT-AIR QUENCH
AND 1250F TEMPER

WE CERTIFY THAT ALL CHEMICAL ANALYSIS, MECHANICAL PROPERTIES, TEST RESULTS AND STATEMENTS OF PERFORMANCE OPERATIONS RECORDED HEREIN, ARE ACCORDING TO THE RECORDS OF MACH INTERNATIONAL. MATERIALS HEREIN ST. ARE IN COMPLIANCE WITH ALL SPECIFICATIONS LISTED ABOVE.

DATE 3/28/05 SIGNATURE *[Signature]*

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 9 - Item: 270

Workorder: 65678/9-0 Sub:218 Op:34

Part: SE120-004 PORT 9 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)								08-16-05			
*		ROUNDNESS WITHIN .030"	CALIPER	QA		J-707	.030	840-G.M			A
(20)									08-16-05		

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 9 - Item: 272

Workorder: 65678/9-0 Sub:221 Op:20

Part: SE120-004 PORT 9 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			VISUAL INSPECTION	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		AWI			F COMPLETED WELD	06-22-05	06-22-05	

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT 9 - Item: 274

Workorder: 65678/9-0 Sub:221 Op:34

Part: SE120-004 PORT 9 - TUBE, 6.0 OD X 0.188 WALL - SE120-004-17 TUBE, 6.0 OD X 0.188 WALL

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.01	840-G.M			A
(10)								08-16-05			
*		ROUNDNESS WITHIN .030"	CALIPER	QA		J-707	.030	840-G.M			A
(20)								08-16-05			

Quality Assurance Documentation for Part ID: SE120-004 PORT 9A - Item: 275

Workorder: 65678/9-0 Sub:18 Op:10

Part: SE120-004 PORT 9A - PORT 9A SUB-ASSEMBLY - PORT 9A SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P9AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-28-05	09-29-05		
*		VWI - EXTERIOR FILLETS P9AF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-28-05	09-29-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT 9B - Item: 277

Workorder: 65678/9-0 Sub:19 Op:10

Part: SE120-004 PORT 9B - PORT 9B SUB-ASSEMBLY - PORT 9B SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET P9BF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(30)				CWI				09-29-05	09-29-05		
*		VWI - EXTERIOR FILLETS P9BF		MFG		VISUAL	OK	358-D.M	933-D.L		A
(40)					CWI				09-29-05	09-29-05	

Quality Assurance Documentation for Part ID: SE120-004 PORT FJS - Item: 279

Workorder: 65678/9-0 Sub:224 Op:10

Part: SE120-004 PORT FJS - PORT FJS SUB-ASSEMBLY - PORT FJS SUB-ASSEMBLY

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		VWI - INTERIOR COVER PASS / FILLET PFJF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(30)				CWI					12-13-05	12-14-05	
*		VWI - EXTERIOR FILLETS PFJF		MFG		VISUAL	O.K. PER CUSTOMER EQUIREMENTS	771-B.S	933-D.L		A
(40)				CWI					12-13-05	12-14-05	



4119 FULTON / 77022
 P.O. BOX 130430
 HOUSTON, TEXAS 77219-0430
 (713) 695-6000
 (713) 696-6725 FAX NUMBER

ORDER DATE 7/21/05 MACH S/O NUMBER 250875

 *** SHIPPING DEPT ***

CUSTOMER #: 28800000 SLS PRSN #: 10000
 SOLD TO: MAJOR TOOL & MACHINE INC. CUSTOMER ORDER NUMBER: P03-03984
 1458 E. 19TH. STREET DEL ACT: DEL EST: 8/04/05

INDIANAPOLIS IN 46218 BUYER: BOB
 SHIP VIA: ABF F.O.B.: OUR PLANT
 FREIGHT BILL NUMBER:

SHIP TO: MAJOR TOOL & MACHINE INC. PREPAID/CHG: PREPAID/ALLOW: COLLECT: X
 1458 E. 19TH. STREET TERMS: SEE BELOW

INDIANAPOLIS IN 46218 ATTENTION:
 TAG #: MILL TEST REPORTS:
 TAG #: X WITH SHIPMENT
 X WITH INVOICE
 NOT REQUIRED

ITEM	ORDER	QTY	B/O	SHIP DESCRIPTION	HEAT U/M NUMBER	MACH P.O. #
1	9	9pc. 34"lg		4"OD .250AW PIPE X 34"LG (-0+1/4) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: 3PCS PART# SE120-004 PORT 15 TAG: 3PCS PART# SE120-004 PORT FJE	EA 132793	81404C
					99716	
					99715	
2	6	6pc. 42"lg		4"OD .250AW PIPE X 42"LG (-0 +1/2) FORM & TACK 625 SB443 NO LONG SEAM BEVEL TAG: PART# SE120-004 PORT '17	EA 132793	81404C
					99721	

Rez: 08.17.05 wx

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT FJS - Item: 281

Workorder: 65678/9-0 Sub:247 Op:20

Part: SE120-004 PORT FJS - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG			ACCEPT	733-J.ST	712-W.	
(20)		VWI - COMPLETED WELD		CWI				08-30-05	08-30-05	


A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT FJS - Item: 283

Workorder: 65678/9-0 Sub:247 Op:50

Part: SE120-004 PORT FJS - PIPE, 3.5" SCH. 40 - SE120-004-15 PIPE, 3.5" SCH. 40

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
* (40)		 0.06	HEIGHT GAGE	QA		J-530	.045	131-W.A 10-17-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004 PORT NB - Item: 286

Workorder: 65678/9-0 Sub:1 Op:30

Part: SE120-004 PORT NB - NEUTRAL BEAM PORT EXTENSION SUB-ASSY - PORT NB SUB-ASSEMBLY PPPL NCSX VVSA NEUTRAL BEAM PORT EXT

Drawing ID: SE120-004 Rev: 2		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*				MFG		VISUAL	ACCEPTED	509-S.R	933-D.L	
(10)		VWI ROOT PASS WELD PNB-1		CWI				11-09-05	11-09-05	A
*				MFG		VISUAL	ACCEPTED	683-K.M	933-D.L	
(50)		VWI COVER PASS WELD PNB-1		CWI				11-09-05	11-09-05	A
*				MFG		VISUAL	ACCEPTED	509-S.R	933-D.L	
(60)		VWI ROOT PASS WELD PNB-2		CWI				11-09-05	11-09-05	A
*				MFG		VISUAL	ACCEPTED	683-K.M	933-D.L	
(100)		VWI COVER PASS WELD PNB-2		CWI				11-09-05	11-09-05	A

Quality Assurance Documentation for Part ID: SE120-004 PORT NB - Item: 287

Workorder: 65678/9-0 Sub:1 Op:40



Part: SE120-004 PORT NB - NEUTRAL BEAM PORT EXTENSION SUB-ASSY - PORT NB SUB-ASSEMBLY PPPL NCSX VVSA NEUTRAL BEAM PORT EXT

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*				MFG		VISUAL	ACCEPTED	683-K.M	933-D.L		A
(20)		VWI - ROOT PASS WELD PNBFB		CWI				11-18-05	11-18-05		
*				MFG		VISUAL	GOOD	763-R.M	933-D.L		A
(50)		VWI - COVER PASS WELD PNBFB		CWI				11-21-05	11-21-05		

Quality Assurance Documentation for Part ID: SE120-004 PORT NB - Item: 290

Workorder: 65678/9-0 Sub:1 Op:75


Part: SE120-004 PORT NB - NEUTRAL BEAM PORT EXTENSION SUB-ASSY - PORT NB SUB-ASSEMBLY PPPL NCSX VVSA NEUTRAL BEAM PORT EXT

Drawing ID: SE122-072 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G8	 $\varnothing .015$ A B C DIA. 0.531 THRU +/- 0.005" (34X)	CALIPER	MFG QA		P-1237	.532-.534	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (20)	D7	0.125 +/- 0.005" Dia. THROUGH TO ADJACENT HOLE (2X)	PIN GAGE	MFG QA		J-667	.125	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (30)	G6	 0.015"	INDICATOR	MFG QA		P-237	WITH IN .011	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (40)	C6	0.750 +/- 0.005" (2X)	CALIPER	MFG QA		P-1237	.755	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (50)	B6	0.88 +/- 0.01" (2X)	DEPTH MICROMET	MFG QA		P-76	.88	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (60)	B5	0.625 +/- 0.005" (2X)	CALIPER	MFG QA		P-1237	.630	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (70)	B5	DIA. 0.250 +/- 0.005" (2X)	PIN GAGE	MFG QA		J-667	.250	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (80)	B5	1/8" NPT THREAD (2X)	THREAD PLUG GA	MFG QA		A-220	ACC. PER GAGE	688-S.A 01-03-06	591-C.P 01-09-06	A
1* (90)	F8	26.5 DEG. +/- 0 DEG. 15' (2X)		MFG QA		MACH #523	26.5	688-S.A 01-03-06	591-C.P 01-09-06	A

Quality Assurance Documentation for Part ID: SE120-004 PORT NB - Item: 291

Workorder: 65678/9-0 Sub:1 Op:90

Part: SE120-004 PORT NB - NEUTRAL BEAM PORT EXTENSION SUB-ASSY - PORT NB SUB-ASSEMBLY PPPL NCSX VVSA NEUTRAL BEAM PORT EXT

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		 0.375 PROFILE VERIFICATION	LASER	QA		1444	-0.057 / +0.125	522-R.D 01-07-06			A
*		Magnetic Permeability 1.02 Max	MASTER GAGE	QA		J-1271	LESS THAN 1.02	522-R.D 01-07-06			A
*		Interior Surface Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1308	14-23	522-R.D 01-07-06			A
*		Material Thickness: .500 +.04 / -.01"	UT THICKNESS GA UT CAL BLOCK	QA		J-770-NDT J-1157	0.526 / 0.538	522-R.D 01-07-06			A
*		CLEANLINESS PER PS483		QA		VISUAL	ACCEPT	522-R.D 01-07-06			A
*		Flange face Finish 32 Micro-Inch RA	PROFILOMETER	QA		J-1308	17-28	522-R.D 01-07-06			A

Quality Assurance Documentation for Part ID: SE120-004-16 - Item: 292

Workorder: 65678/9-0 Sub:235 Op:30

Part: SE120-004-16 - PIPE, 2.5" SCH. 10 - SE120-004-16 PIPE, 2.5" SCH. 10

Drawing ID: SE120-004 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		Interior Surface Finish: 32 Micro-Inch Ra M	PROFILOMETER	QA		J-1152	11/31	503-B.H			A
(10)								09-13-05			
*		Mag. Perm: 1.02 Mu Max	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H			A
(20)								09-13-05			
*		Mtl. Thk: 0.120 +/- 0.015"	OD MICROMETER	QA		J-722	111/115	503-B.H			A
(30)								09-13-05			

JUL 29 2005 10:12AM

BRIGHTON TRU EDGE 513 771 2404

No.4876 P. 1/3

BRIGHTON TRU-EDGE HEADS

DIV OF ENERFAB

11861 MOSTELLER RD * CINCINNATI OH 45241 * (513)-771-2300

MTR COVER LETTER

MAJOR TOOL AND MACHINE
1458 E 19TH ST
INDIANAPOLIS IN 46218

ATTN : DOUG MCCORKLE
REFERENCE : CUSTOMER P/O P05-01008
BRIGHTON S/O 256223

TO WHOM IT MAY CONCERN:

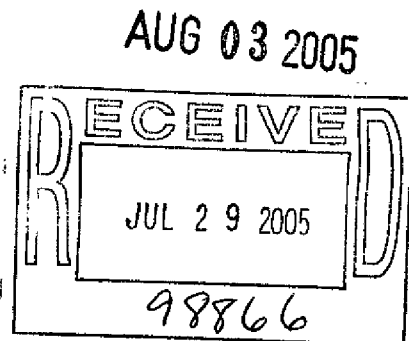
ATTACHED ARE COPIES OF MILL TEST REPORTS FOR THE FOLLOWING MATERIALS PROVIDED ON YOUR REFERENCED PURCHASE ORDER.

FORM ONLY

6-SB443-625 Style:2:1 Ellip Head Diam:18" OD 2:1 Ellip Head Diam:18" OD
18" OD .3750"-NOM WITH 2" OAH:6.19" SP.

Qty	Heat Number
6	2650-4-6771

CERTIFICATE OF COMPLIANCE



lines 1-6

ALL HEADS WERE COLD FORMED AND ARE IN COMPLIANCE WITH REGULATION UG - 81 AND UG - 79 AS STATED IN SECTION VIII DIVISION I OF THE ASME BOILER AND PRESSURE VESSEL CODE. HEADS WERE FORMED WITHOUT COMING IN CONTACT WITH MERCURY OR ANY OF ITS COMPOUNDS.

IF YOU HAVE ANY FURTHER QUESTIONS CONCERNING MILL TEST REPORTS ONLY, PLEASE CONTACT ME IN CINCINNATI, OHIO AT 1-800-543-1644.

VERY TRULY YOURS,

Rick Seiter

BRIGHTON TRU-EDGE HEADS
DIV OF ENERFAB

(4.8146)
4.8.5488

6.19-

18-00. 1/2 inch 30 inside

No. 4876 P. 2/3

BRIGHTON TRU EDGE 513 771 2404

Jul. 29. 2005 10:13AM

	CIRCUMFERENCE	O.A.H.	SF THK.	ICR THK.	ICR	SF			TEMP	OUT OF ROUND	LAND	BEVEL	FLANGER STAMP	REMARKS
						TOE	STRT	TOTAL						
1		6 1/8					2"				20°	S		
2	4'8 1/2	6 7/8	9/8	9/8					1"	18"00	1/16	30°RN	OK	
3														
4														
5														
6	4'8 1/2	6 1/4	9/8	9/8			2"		1"	18"00	1/16	30°IS	OK	
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														

DATE _____

RELEASED FOR SHIPMENT BY _____

INSPECTED BY _____

DATE _____

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: Frank Malinowski

E-Mail: fmalinowski@pppl.gov

Telephone: 609-243-2441

Fax: 609-243-2021

Part: / SE122-112-3 (CF BLANK FLANGE)

Drawing ID: SE122-113

Revision: 0

Customer P.O.: S005243-F

Serial No./Qty: N/A

Reported By: DOUG MCCORKLE

E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433

Fax: 317-634-9420

Problem: Magnetic Permeability requirement 1.02 Max
Checks >1.05, but < 1.1

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____

EASTWOOD MANUFACTURING
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE
ORDER # : P05-03373

DATE : 8-11-05
OUR NUMBER 33676

WE CERTIFY THAT THE MATERIALS SUPPLIED ON YOUR ORDER
LISTED ABOVE COMPLIES WITH THE REQUIREMENTS OF YOUR ORDER
AND OF THE SPECIFICATIONS LISTED BELOW

DESCRIPTION :

Lot No.:	Part :	Heat No.:	
33676-1	552 PIECES	SE120-004-32	062313725
		1/2-13 x 3 1/2	1/2" Round forged
		12-point screw	Heat treated per ASTM A453 Gr.660
		ASTM A453	Tensile : WH #05-0809-05
		Grade 660	

08.12.05
99477 WK



DALE STARK
EASTWOOD MANUFACTURING

Aug 11 05 04:23p



ap alloys, inc.

100 West Street Bridgewater, MA 02324-1095
 (508) 580-1200 Outside Mass. 1-800-221-0786
 FAX (508) 588-4726

CERTIFICATE OF ANALYSIS

Date JUNE 30, 2005

TO EASTWOOD MANUFACTURING
 6825 BREEN STREET
 HOUSTON, TX 77086

SHIPPED TO

Your Order 33541 Our Order 132634

1 BDL. 178# 1/2" DIA. X 12' R/L A-286 LAB NO. 062313725

Chemical Composition (When called for by specification)

AB/ Heat No.	C.	Mn.	P.	S.	SI.	NI.	Cr.	Cu.	Mo.	TI.	CB.
162313725	.036	1.00	.030	.004	.55	26.69	14.11	.25	1.33	1.95	.03
				AL	V	CO	B				
				.10	.11	.08	.005				

Heat No. Yield Strength lbs. per sq. in. Rockwell Tensile Strength lbs. per sq. in. Elong. % in 2" Red. of Area

I certify the above material to conform with A-286

Declared to under oath before me this

_____ day of _____ 20____

ap and alloys, inc.

By John J. Parviz Jr.

Tensile Test Report

Company: Eastwood Mfg. Date: 8/10/2005

Attention: Dale Stark Lab Report #: 05-0809-05
 P.O. #: 33676

Material: ASTM A286

Identification: 1/2"x3-1/2"-12-Point

TENSILE TEST

Lab ID	Dimensions	Area	Yield Lbs.	Ultimate Load Lbs.	Yield P.S.I.	Tensile P.S.I.
R	.257 round	.0519	5,540	8,620	106,900	166,100

Elongation	Reduction of Area	Fracture	Comments
27.5%	52.6%	Ductile	

Tests performed in accordance with ASTM A370, E8, and WH Laboratories Quality Assurance Manual.
 0.2% Offset Yield. Testing performed in accordance with ASTM A370.
 Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.



Approved by: Robert French
 Robert French

33676

33676



MDC VACUUM PRODUCTS CORP

23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 - Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

This is to certify that the items shipped on the above referenced purchase order number comply with all standards in our MDC catalog.

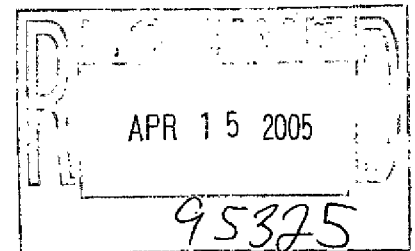
MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522



Line 96

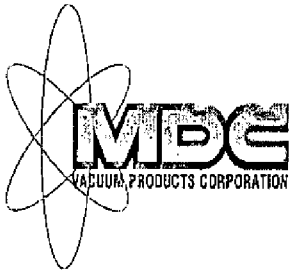
B.A.

Dedicated to Quality and Service

Form 10-13, Rev B



4/15/05



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MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522

MTM 09 4/6/05

4/6/05
95026
88-90
B.A.

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23842 Cabot Blvd., Hayward CA 94545-1651
Phone: 510.265.3500 - Fax: 510.887.0626 – Toll Free: 800.443.8817
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Certification of Conformance Catalog Products

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ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

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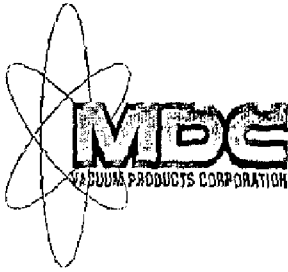
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MIKE SCHULTZ
Shipping/Receiving Supervisor
MDC Vacuum Product Corporation
e-mail: icasaray@mdcvacuum.com
Phone: (510) 265-3500 x 3522

4/6/05 4/6/05
95027
91-93
B.A



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ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

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Shipping/Receiving Supervisor

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e-mail: icasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522



4/6/05
95032
97-99
B-A

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23842 Cabot Blvd., Hayward CA 94545-1651

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Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

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MIKE SCHULTZ

Shipping/Receiving Supervisor
MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

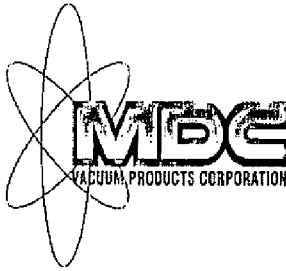
Phone: (510) 265-3500 x 3522

4/6/05
95035
100-102
B.7



4/6/05

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23842 Cabot Blvd., Hayward CA 94545-1651
Phone: 510.265.3500 - Fax: 510.887.0626 – Toll Free: 800.443.8817
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Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

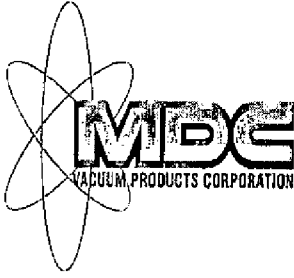
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Shipping/Receiving Supervisor
MDC Vacuum Product Corporation
e-mail: icasaray@mdcvacuum.com
Phone: (510) 265-3500 x 3522

4/6/05
95036
103-105
B.J.

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Certification of Conformance Catalog Products

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ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

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MIKE SCHULTZ

Shipping/Receiving Supervisor

MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

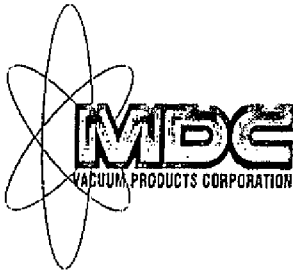
Phone: (510) 265-3500 x 3522



4/6/05

4/6/05
95039
106-108
B.A.

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23842 Cabot Blvd., Hayward CA 94545-1651

Phone: 510.265.3500 - Fax: 510.887.0626 – Toll Free: 800.443.8817

E-Mail: sales@mdcvacuum.com - Web: <http://www.mdcvacuum.com>

HIGH VACUUM COMPONENTS from one source...

Certification of Conformance Catalog Products

COMPANY: MAJOR TOOL & MACHINE

ATTENTION: KATY DEBERNARDI

DATE: April 4, 2005

SUBJECT: CERTIFICATION OF PO# P05-00919

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MDC Vacuum Product Corporation

e-mail: tcasaray@mdcvacuum.com

Phone: (510) 265-3500 x 3522

4/6/05 4/6/05
95043
109-111
B.J.



Dedicated to Quality and Service



Hanna Rubber Company
 1511 Baltimore Avenue
 Kansas City, MO 64108-1301
 (816) 221-9600
 (816) 421-0583 Fax
 (800) 591-3035
 www.hanna-kc.com

Certification of Conformance

MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, INDIANA 46218

Phone Number	317-636-6433
Fax Number	317-634-9420

Sales Order	231887
Purchase Order	P05-00998
Date	3/21/2005

Cure Date	4Q04
Shelf Life	4Q14
Batch Number	186407
Cage Code	99739

To Whom it May Concern:

This letter serves as certification that the materials in the parts stated below are in compliance with applicable specification requirements

Part Number	Quantity	Description
12Z-19.88X.210V	9 EA	VITON O-RING

Thank you,
 Hanna Rubber Company

MAR 22 2005

94447 12Z

Lines 1-6


 Chris Donovan
 Government Contract Administrator



3/30/05



Hanna Rubber Company
 1511 Baltimore Avenue
 Kansas City, MO 64108-1301
 (816) 221-9600
 (816) 421-0583 Fax
 (800) 591-3035
 www.hanna-ke.com

Certification of Conformance

MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, INDIANA 46218

Phone Number	317-636-6433
Fax Number	317-634-9420

Sales Order	231887
Purchase Order	P05-00998
Date	3/21/2005

Cure Date	4Q04
Shelf Life	4Q14
Batch Number	186407
Cage Code	99739

To Whom it May Concern:

This letter serves as certification that the materials in the parts stated below are in compliance with applicable specification requirements

Part Number	Quantity	Description
12Z-37.29X.210V	12 EA	VITON O-RING

Thank you,
 Hanna Rubber Company

MAR 22 2005

Chris Donovan
 Government Contract Administrator

94451 201

Series 7.12

MTM 09
 3/30/05

MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN 46218

YOUR PURCHASE ORDER NUMBER
P05-00869

MCMASTER-CARR
600 COUNTY LINE ROAD
ELMHURST IL 60126-2081

PAGE 1 (MORE)
MCM NUMBER 5473894-01

Today's Date:

IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(630)833-0300

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
EXTRA PACKING LIST	91259 A141	4 EA	ALLOY STEEL STANDARD SHOULDER SCREW 1" SHOULDER DIA, 4" SHOULDER LENGTH, 3/4"-10 THRD 65737-67/1	1	4 EA	4
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-101/7	2	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-112/7	3	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-123/7	4	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-134/7	5	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-135/7	6	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-101/8	7	1 PK	1

REFER TO: 5473894-01
MAJOR TOOL & MACHINE INC

2/14/05
93238
1-18
B.S.



PACKER	Number of CARTONS	FILLER

LNS 7

TAG
CCP

CYCLE

CERTIFICATION OF COMPLIANCE

This is to certify that, according to our records, the above item(s) furnished on your purchase order was supplied in accordance with the description and as illustrated in our catalog.

Sincerely,

Brian Hedstrom

Brian Hedstrom
Quality Manager

MCM NO. 5473894-01 04

PURCHASE ORDER
P05-00869

FROM:
MCMASTER-CARR
600 COUNTY LINE ROAD
ELMHURST IL 60126-2081 USA

SHIP TO:

MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN

46218

CCP

MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN 46218

**YOUR PURCHASE
ORDER NUMBER**
P05-00869

MCMASTER-CARR
600 COUNTY LINE ROAD
ELMHURST IL 60126-2081

IF THERE ARE ANY QUESTIONS ABOUT THIS
SHIPMENT CONTACT OUR SALES DEPARTMENT
(630)833-0300

2
MCM NUMBER
5473894-01

Today's Date:

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
PACKING LIST EXTRA	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-112/8	8	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-123/8	9	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-134/8	10	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-153/8	11	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-101/9	12	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-112/9	13	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-123/9	14	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-134/9	15	1 PK	1
	98164 A133	1 PK	TYPE 316 SS BUTTON HEAD SOCKET CAP SCREW 8-32 THREAD, 1/4" LENGTH PKG = 100 EA/PK 65678-153/9	16	1 PK	1



2/14/05

WEIGHT
5

16 5473894-01
MAJOR TOOL & MACHINE INC

MCMASTER-CARR
WAREHOUSE INSTRUCTIONS

PURCHASE ORDER
P05-00869

CYCLE

T

CCP



Where Quality Isn't Expensive.....It's Priceless!

DIVERSIFIED METALS

INCORPORATED

TOLL FREE: 800-628-3035
EMAIL: SALES@DIVERSIFIEDMETALS.COM
WEBSITE: WWW.DIVERSIFIEDMETALS.NET
49 MAIN STREET MONSON, MA 01057-0065

FAX: 413-267-3151
PHONE: 413-267-5101
CAGE CODE: 57067
PO BOX 65

TEST CERTIFICATE

Customer: Major Tool & Machine 1458 East 19 th St Indianapolis, IN 46218 Ship To Address: Same	Customer Order: P05-05133 Item No.: 1 PIN: N/A Dimensions: 2.000" DIA X 148.250" LONG Alloy/Grade: NICKEL 625
--	--

Specification/Grade: ASTM-B-446

No. Of Cradles	No of Pieces	Length	Weight	Packing Slip No.	Heat No.	Lot No
1	1	148.250 INCHES	144.0 LBS	48278	900257	NONE

MILL TEST REPORT ATTACHED

MATERIAL HAS NOT BEEN EXPOSED TO MERCURY WHILE IN DIVERSIFIED METALS INC. FACILITY.

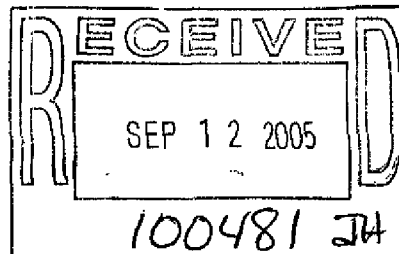
This is to certify that the material covered by this report and shipped on the above order has been inspected in accordance with, and has been found to meet the applicable requirements described herewith, involving any specifications forming a part of this description.

We certify that the Chemical Analysis and Physical Test Results applying on the above order number are correct and true.

QUALITY APPROVAL:

LeeAnn Goyette
 Quality Control Administrator
 Date: September 8, 2005

SEP 13 2005



Scanned

Zeugnis-Nr. 200001
Certificate no.
No. certificat

Bescheinigung über Werkstoffprüfung nach EN 10204. 3.1
Certificate of material tests according to EN 10204
Certificat des essais des matériaux selon EN 10204

Die Lieferung entspricht den vereinbarten Lieferbedingungen.
The above mentioned material have been delivered in accordance with the terms of the order.
La livraison correspond aux conditions de livraison convenues.

BGH Edelmetall Freital GmbH, Postfach 10 15 66, D-01691 Freital

BGH Speciality Steel Inc.

5430 Brystone Drive
77041 Houston, Tx
USA



EDELSTAHL FREITAL

Kunden-Bestell-Nr. 39127 Div. Metals
Customer order no. BGH SO 1924
Cde. no. du client

BGH Auftrags-Nr. 58459301/61492
BGH works no.
BGH reference:

Zeichen des Lieferwerkes Stempel des Werkstoffverständigen
Trade mark Inspector's stamp
Signé du fournisseur Poinçon de l'inspecteur



APPROVED BY CTR
DATE 5/10/05
CAROL RALPH
Q.C. MANAGER

Erzeugnisform Product		Stab, rund, geschält Round bars, peeled		DIVERSIFIED METALS, INC. 49 MAIN STREET, MONSON, MA 01057 PH 413-267-5101/FAX 413-267-3151								
Werkstoffqualität Material quality		UNS N06625		SOLD TO: CUSTOMER: <i>MADOL TOOL & MACHINE</i> P.O.# <i>POS-05733</i> ITEM# <i>1</i>								
Anforderungen Requirements		ASTM B 446 2000 / ASTM B 446 2003 SAE AMS 5666 E-03/00 Nickel 625 - UNS N06625 HOT FINISHED AND ANNEALED DMI ordering data UNS N06625, Rev. 8/11/98 ASTM B446 / ASME SB446, SAE AMS 5666 E-03/00 Level 1 / subsafe										
Beschädigung und Maßnachprüfung Inspection and dimensional control Inspection et contrôle des dimensions ohne Beanstandung without objection		Erschmelzung/Nachbearbeitung Melting process/secondary refining Mode de fabrication/traitement ultérieur VIM		Verwechslungsprüfung (spektralanalytisch) Identification test (spectral analysis) examination d'identification (analyse spectrale) ohne Beanstandung without objection								
Pos. Item	Anzahl Quantity	Abmessung Dimension		Gewicht kg Weight kg	Schmelz-Nr. Heat No.							
1	10	2.00" dia		666 1468 lb	900257							
Schmelz-Heat %	C ✓	Si ✓	Mn ✓	P ✓	S ✓	Cr ✓	Mo ✓	Ni ✓	Nb X	Ti ✓	Al ✓	Co ✓
900257	0,028	0,19	0,21	0,004	0,003	21,30	8,38	64,80	3,390	0,060	0,130	0,010
	Ta	Fe ✓	Nb+Ta ✓									
	0,006	1,33	3,396									
Condition of heat treat Traitement thermique		hot finished, annealed annealed at 1616°F followed by water quenching										
Probe-Nr. Test-No.	Lage Soll/Req.	Temp. °C RT	Rp0,2 ksi >=60	Rm ksi >=120	A4 %	Kerbschlagarbeit Impact value	Probenform Shape of test piece	Härte HB Hardness				
04\$BML	L	RT	89	139	44			< 287 245				
us test : no objection crack test (Citrögraph): no objection.												
Sampling for tests was done in accordance with DMI ordering data latest revision Country of origin: GERMANY Rm ksi... Ultimate Tensile Strength Rp0,2% ksi... Offset Yield Strength A4% ... Elongation on 4D												
Material no weld repair. Material free from Mercury or radium contamination. Each lot is sampled, tested and inspected in accordance with the specification and meets all specification requirements.												
grain size ASTM E 112: 5-6												
Abgaben Certificate of approval Encl. Annexe			Freilagerden Place and date Libre et date 27.04.2005		modif. certificate	Abnahmebeauftragter Third Party Inspector Inspecteur de réception MUELLER <i>Mueller</i>						



SEP 13 2005

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004-48 - Item: 348

Workorder: 65678/9-0 Sub:284 Op:30

Part: SE120-004-48 - VVSA CLEVIS BOSS "A" - CLEVIS BOSS "A" INTERFACING STRUCTURAL BOSS

Drawing ID: SE124-047 Rev: 0A			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		1.02 Mu MAX	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H 09-30-05		

A



Where Quality Isn't Expensive.....It's Priceless!

DIVERSIFIED METALS

INCORPORATED

TOLL FREE: 800-628-3035
EMAIL: SALES@DIVERSIFIEDMETALS.COM
WEBSITE: WWW.DIVERSIFIEDMETALS.NET
49 MAIN STREET MONSON, MA 01057-0065

FAX: 413-267-3151
PHONE: 413-267-5101
CAGE CODE: 57067
PO BOX 65

TEST CERTIFICATE

Customer: Major Tool & Machine 1458 East 19 th St Indianapolis, IN 46218 Ship To Address: Same	Customer Order: P05-05133 Item No.: 1 PIN: N/A Dimensions: 2.000" DIA X 148.250" LONG Alloy/Grade: NICKEL 625
--	--

Specification/Grade: ASTM-B-446

No. Of Cradles	No of Pieces	Length	Weight	Packing Slip No.	Heat No.	Lot No
1	1	148.250 INCHES	144.0 LBS	48278	900257	NONE

MILL TEST REPORT ATTACHED

MATERIAL HAS NOT BEEN EXPOSED TO MERCURY WHILE IN DIVERSIFIED METALS INC. FACILITY.

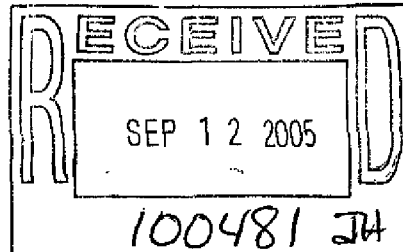
This is to certify that the material covered by this report and shipped on the above order has been inspected in accordance with, and has been found to meet the applicable requirements described herewith, involving any specifications forming a part of this description.

We certify that the Chemical Analysis and Physical Test Results applying on the above order number are correct and true.

QUALITY APPROVAL:

LeeAnn Goyette
 Quality Control Administrator
 Date: September 8, 2005

SEP 13 2005



Scanned

Zeugnis-Nr. 200001
Certificate no.
No. certificat

Bescheinigung über Werkstoffprüfung nach EN 10204. 3.1
Certificate of material tests according to EN 10204
Certificat des essais des matériaux selon EN 10204

Die Lieferung entspricht den vereinbarten Lieferbedingungen.
The above mentioned material have been delivered in accordance with the terms of the order.
La livraison correspond aux conditions de livraison convenues.

BGH Edelmetall Freital GmbH, Postfach 10 15 66, D-01691 Freital

BGH Speciality Steel Inc.

5430 Brystone Drive
77041 Houston, Tx
USA



EDELSTAHL FREITAL

Kunden-Bestell-Nr. 39127 Div. Metals
Customer order no. BGH SO 1924
Cde. no. du client

BGH Auftrags-Nr. 58459301/61492
BGH works no.
BGH reference:

Zeichen des Lieferwerkes Stempel des Werkstoffverständigen
Trade mark Inspector's stamp
Signé du fournisseur Poinçon de l'inspecteur



APPROVED BY CTR
DATE 5/10/05
CAROL RALPH
Q.C. MANAGER

Erzeugnisform Product		Stab, rund, geschält Round bars, peeled		DIVERSIFIED METALS, INC. 49 MAIN STREET, MONSON, MA 01057 PH 413-267-5101/FAX 413-267-3151								
Werkstoffqualität Material quality		UNS N06625		SOLD TO: CUSTOMER: <i>MADOL TOOL & MACHINE</i> P.O.# <i>POS-05733</i> ITEM# <i>1</i>								
Anforderungen Requirements		ASTM B 446 2000 / ASTM B 446 2003 SAE AMS 5666 E-03/00 Nickel 625 - UNS N06625 HOT FINISHED AND ANNEALED DMI ordering data UNS N06625, Rev. 8/11/98 ASTM B446 / ASME SB446, SAE AMS 5666 E-03/00 Level 1 / subsafe										
Beschädigung und Maßnachprüfung Inspection and dimensional control Inspection et contrôle des dimensions ohne Beanstandung without objection		Erschmelzung/Nachbearbeitung Melting process/secondary refining Mode de fabrication/traitement ultérieur VIM		Verwechslungsprüfung (spektralanalytisch) Identification test (spectral analysis) examination d'identification (analyse spectrale) ohne Beanstandung without objection								
Pos. Item	Anzahl Quantity	Abmessung Dimension		Gewicht kg Weight kg	Schmelz-Nr. Heat No.							
1	10	2.00" dia		666 1468 lb	900257							
Schmelz-Heat %	C ✓	Si ✓	Mn ✓	P ✓	S ✓	Cr ✓	Mo ✓	Ni ✓	Nb X	Ti ✓	Al ✓	Co ✓
900257	0,028	0,19	0,21	0,004	0,003	21,30	8,38	64,80	3,390	0,060	0,130	0,010
	Ta	Fe ✓	Nb+Ta ✓									
	0,006	1,33	3,396									
Condition of heat treat Traitement thermique		hot finished, annealed annealed at 1616°F followed by water quenching										
Probe-Nr. Test-No.	Lage Soll/Req.	Temp. °C RT	Rp0,2 ksi >=60	Rm ksi >=120	A4 %>=30	Kerbschlagarbeit Impact value	Probenform Shape of test piece	Härte HB Hardness				
04\$BML	L	RT	89	139	44			< 287 245				
us test : no objection crack test (Citrögraph): no objection.												
Sampling for tests was done in accordance with DMI ordering data latest revision Country of origin: GERMANY Rm ksi... Ultimate Tensile Strength Rp0,2% ksi... Offset Yield Strength A4% ... Elongation on 4D												
Material no weld repair. Material free from Mercury or radium contamination. Each lot is sampled, tested and inspected in accordance with the specification and meets all specification requirements.												
grain size ASTM E 112: 5-6												
Abgaben Encl. Annexe		Freilassen Place and date Libre et date 27.04.2005		Abnahmebeauftragter Third Party Inspector Inspecteur de réception MUELLER <i>Mueller</i>								



SEP 13 2005

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004-48 - Item: 350

Workorder: 65678/9-0 Sub:290 Op:30

Part: SE120-004-48 - -

Drawing ID: SE124-047 Rev: 0A			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		1.02 Mu MAX	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H 09-30-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004-49 - Item: 352

Workorder: 65678/9-0 Sub:285 Op:30

Part: SE120-004-49 - VVSA CLEVIS BOSS "B" - CLEVIS BOSS "B" INTERFACING STRUCTURAL BOSS

Drawing ID: SE124-047 Rev: 0A			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		1.02 Mu MAX	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H 09-30-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004-50 - Item: 354

Workorder: 65678/9-0 Sub:286 Op:30

Part: SE120-004-50 - VVSA CLEVIS BOSS "C" - CLEVIS BOSS "C" INTERFACING STRUCTURAL BOSS

Drawing ID: SE124-047 Rev: 0A			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		1.02 Mu MAX	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H 09-30-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE120-004-51 - Item: 356

Workorder: 65678/9-0 Sub:287 Op:30

Part: SE120-004-51 - VVSA CLEVIS BOSS "D" - CLEVIS BOSS "D" INTERFACING STRUCTURAL BOSS

Drawing ID: SE124-047 Rev: 0A			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		1.02 Mu MAX	MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H 09-30-05		

A

EASTWOOD MANUFACTURING
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE
ORDER # : P05-03373

DATE : 7-15-05
OUR NUMBER 33541

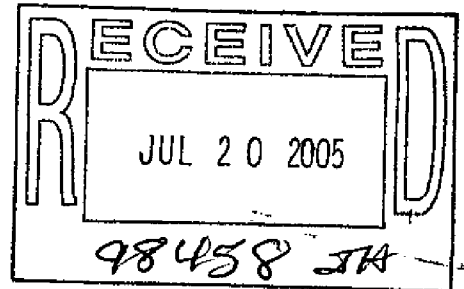
WE CERTIFY THAT THE MATERIALS SUPPLIED ON YOUR ORDER
LISTED ABOVE COMPLIES WITH THE REQUIREMENTS OF YOUR ORDER
AND OF THE SPECIFICATIONS LISTED BELOW

DESCRIPTION :

Lot No.:	Part :	
33541-2 552 PIECES	SE120-004-55 Heat No.: E28031	
	1/2-20 Hex nut	
	A194 Gr 8	
33541-3 654 Pieces	SE120-004-56 Heat No.: 744072	
	Washer	
	ASTM A286	
33541-4 102 Pieces	SE120-004-57 Heat No.: HT9618EY	
	1/2-20 x 2 12-point	
	12-point screw	
	Inconel 718	



DALE STARK
EASTWOOD MANUFACTURING



Lines 4-12
10/10



JUL 22 2005

B&G Manufacturing Co, Inc
 3067 Unionville Pike, P.O. Box 904, Hatfield, PA 19440-0904
 General Telephone: 215-822-1925



Customer:
 Eastwood Manufacturing
 6825 Breen Street
 HOUSTON TX 77086
 USA

Quality certificate	
Date	06/16/2005
Purchase order item/date	33541 / 06/16/2005
Delivery item/date	80274266 000010 / 06/17/2005
Order item/date	206301 000010 / 06/16/2005
Page 1 of	1

We certify that the material supplied meets the requirements of the purchase order and the required material specification.

Material Number : 3692
 Batch 009438A / Quantity 600 EA
 Heat Number: E28031
 Specification / Description
 HVY HEX NUTS 304 SS
 .500-20

33541

33541

Characteristic	Unit	Value
Specifications	-	ADDITIONAL SPECS MAY EXIST
	-	AISI 304*-CHEMS ONLY
	-	ASME SA193-92A B8A CL.1A-CHEMS
	-	ASME SA194-92A GR.8-CHEMS ONLY
	-	ASME SA194-92A GR.8A-CHEMS ONL
	-	ASTM A193-94B B8A CL.1A-CHEMS
	-	ASTM A194-94A GR.8-CHEMS ONLY
	-	ASTM A194-94A GR.8A-CHEMS ONLY
Carbon Content	%	0.0400
Chromium Content	%	18.0600
Manganese Content	%	1.0900
Nickel Content	%	9.0900
Phosphorus Content	%	0.0310
Silicon Content	%	0.3900
Sulfur Content	%	0.0050

B & G Manufacturing Co., Inc. By

Margaret G. Gorman

Certification Specialist

BAR STOCK SPECIALTIES, INC.

11625 CHARLES STREET

HOUSTON TEXAS 77041

PH# 713-849-0055

PH# 713-466-3460 EASTWOOD MANUFACTURING

TO: 6825 BREEN DR.

HOUSTON, TX 77086-3719

* C E R T I F I C A T E *
* O F T E S T *

Customer P/O # 32770

Our Order # 011645

ITEM QUANTITY DESCRIPTION			LOT		
2 320 LB 1.125 (1 1/8 DIA.) ROUND BAR ASTM A193 GR.B7			3298		
ASTM SPEC DATE: 01B					
TEMPERING TEMP: 1340 F					
Heat No.	TENSILE (PSI)	YIELD (PSI)	PHOSPHORUS	CARBON	MANGANESE
744072	146500	134400	.02	.4	.83
ELONGATION	RED. OF AREA	HARDNESS (HB)	CHROMIUM	SULFUR	SILICON
20	60	293	.86	.02	.23
MACRO ETCH				MOLY.	
S1/R1/C1				.17	

ITEM QUANTITY DESCRIPTION			LOT		
3 404 LB 2.500 (2 1/2 DIA.) ROUND BAR ASTM A193 GR.B7			3025		
ASTM SPEC DATE: 01b					
TEMPERING TEMP: 1330 F					
Heat No.	TENSILE (PSI)	YIELD (PSI)	PHOSPHORUS	CARBON	MANGANESE
11628290	150600	135000	.012	.43	.8
ELONGATION	RED. OF AREA	HARDNESS (HB)	CHROMIUM	SULFUR	SILICON
19	56	302	.87	.034	.26
MACRO ETCH				MOLY.	
S1/R1/C2				.19	

Date: 01/14/05

We hereby certify that the foregoing data is a true copy of the data furnished to us by the producing mill.

BAR STOCK SPECIALTIES, INC.

BY

Greg Neal
Authorized Test Clerk

32770

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS
 ATTEMPTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER
 FEDERAL LAW, TITLE 18, CHAPTER 47
STERN U.S.

FORM E D

HUNTINGTON ALLOYS
A Special Metals Company
 HUNTINGTON, WEST VIRGINIA 25720

5176112
HT9618EY12



CERTIFIED MATERIAL TEST REPORT		No. 50179	
HA ORDER NO./ITEM	DATE	PAGE	OF
100011836 1	05/13/02	1	3
QUANTITY	INSPECTED BY		
2190 LBS	HA/SMC		
CHARGE ORDER NO.	MARK ORDER NO.		
41137-5-S20062	41137-5-S20062		
DESCRIPTION OF MATERIAL SHIPPED	INCONEL ALLOY 718 CD RND CENTERLESS GRD SOL TR .5160 IN 132-156 IN NOM		

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLING INSPECTIONS AND TESTS
 HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATED
 REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES
 OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND THAT
 THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH
 ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT THE
 BELOW FIGURES ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQUIRE-
 MENTS

[Signature]
 QUALITY CERTIFICATION REPRESENTATIVE

*****THIS REPORT RELATES ONLY TO THE ITEM(S) TESTED AND MAY NOT BE REPRODUCED EXCEPT IN FULL.*****
 SPECIFICATIONS: ASTM B 637-98\ASME SB-637 2001 EDITION NO ADDENDA\ UNS:N07718
 SAE AMS 5662L MARKING WAIVED WITH AMS 5663J CAPABILITY\
 SPS-M-275M EXCEPT SOL TRT TIME\GE C50TF13 S16 AM 1 CHEM ONLY\
 GE B50TF15 S29 CLASS D - CLASS E CAPABILITY MARKING WAIVED\
 GE B50T69A-S6 AM 1 MARKING WAIVED\RBO 170-153 REV G CHEM ONLY\
 HI SHEAR 156 REV D CHEM ONLY\GE S 400E\GE S-1000E\
 QUALITY SYSTEM CERTIFICATION: ISO 9002 (ABS-QE CERT. 30125);
 EN 10.204/DIN 50049 (CERT.3.1.B)

CHEMICAL ANALYSIS (WT %)

HEAT#	C	MN	FE	SI	CU	NI	CR	AL	
	TI	MG	CO	MO	TA	P	B	CA	
	PB/PPM	BI/PPM	SE/PPM	NB+TA					
HT9618EY	0.03	0.08	17.78	0.0007	0.10	0.07	53.85	18.14	0.62
	0.92	0.001	0.20	3.13	5.07	<0.01	0.008	0.003	0.001
	0.1	0.1	0.9	5.07					

TESTED BY HUNTINGTON ALLOYS, 3200 RIVERSIDE DR., HUNTINGTON, WV 25705, ACCREDITED FOR FASTENER QUALITY AC
 CRIA PRY CERT 0029 (EXPIRES 10/31/2009).

TO CONVERT PPM TO WT.%, MOVE DECIMAL POINT FOUR PLACES TO THE LEFT.

MELT METHOD: DUVAC (VIM ELECTRODE; VAR INGOT)

MECHANICAL PROPERTIES

HEAT/LOT	QUANTITY	HARD NESS	GRAIN SIZE	YIELD .2KPSI K 100	TENSILE PSI K 100	ELC 4D	R/A %	DEC F
HT9618EY 12	232 PCS							
TEMP-HRC	-CAPABILITY	43.8		1674	2105	21.7	38.4	LONG
TEMP-HRC	-CAPABILITY	42.6		1627	2096	22.2	40.7	LONG
	-CAPABILITY			1434	1712	34.2	65.6	1200 LONG
	-CAPABILITY			1378	1695	33.4	65.9	1200 LONG
	-AS SHIPPED	97.3						

MC110063.TTF4

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS
ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER
FEDERAL LAW, TITLE 18, CHAPTER 47

EASTERN U.S.

FORM E D

HUNTINGTON ALLOYS
A Special Metals Company
HUNTINGTON, WEST VIRGINIA 25720

31761-2



CERTIFIED MATERIAL TEST REPORT		No. 50179	
HA ORDER NO./ITEM	DATE	PAGE	OF
100011836 1	05/13/02	2	3
QUANTITY	INSPECTED BY		
2190 LBS	HA/SMC		
CHARGE ORDER NO.	MARK ORDER NO.		
41137-5-520062	41137-5-520062		
DESCRIPTION OF MATERIAL SHIPPED	INCONEL ALLOY 718 CD END CENTERLESS GRD SOL TR 5160 IN 132-156 IN NOM		

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLES (INSPECTIONS AND TESTS) HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFIC REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT THE BELOW FIGURES ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQUIREMENTS.

[Signature]
QUALITY CERTIFICATION REPRESENTATIVE

HARDNESS - HRC - CAPABILITY 43.7 HEAT TREAT #
HARDNESS - HRC - CAPABILITY 43.6 HEAT TREAT #
GRAIN SIZE - AS SHIPPED ACS ASTM NO. 10.0 TRANS
NORMAL - TRAN
STRESS RUPTURE - CAPABILITY 1200 DEG F / 105,000 PSI STRESS / 091.5 HRS / 39.2XEL IN 4D / 62.8XR
STRESS RUPTURE SPECIMEN DIAMETER - .250"
HEAT TREAT #1
STRESS RUPTURE - CAPABILITY 1200 DEG F / 105,000 PSI STRESS / 083.7 HRS / 31.9XEL IN 4D / 63.7XR
STRESS RUPTURE SPECIMEN DIAMETER - .250"
HEAT TREAT #2
YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

MACROETCH TEST(S) SATISFACTORY

MICROSTRUCTURE TEST(S) SATISFACTORY
MICROSTRUCTURE FREE OF LAVES PHASE AND BANDING OF ACICULAR PHASE

IT9616EY12 ESOTF133 GRAIN SIZE: A) NORMAL STRUCTURE; B) AVERAGE GRAIN SIZE ASTM #10 ; C) ALA ASTM # 9.5 ; D) N/A

NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.

MATERIAL WAS SOLUTION ANNEALED IN A CONTINUOUS FURNACE AT 1780 DEG F FOR 11.1 MINUTES THEN WATER QUENCHED.

CAPABILITY HEAT TREAT #1: MILL ANNEALED + AGED 1325 DEG. F 8 HOURS. FURNACE COOLED 100 DEG. F PER HOUR TO 1150 DEG. F HELD 8 HOURS. AIR COOLED.

CAPABILITY HEAT TREAT #2: MILL ANNEALED + SOLUTION TREATED 1780 DEG. F 1 HOUR. AIR COOLED. AGED 1325 DEG F 8 HOURS. FURNACE COOLED 100 DEG. F PER HOUR TO 1150 DEG. F. HELD 8 HOURS. AIR COOLED.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS
ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER
FEDERAL LAW, TITLE 18, CHAPTER 47
EASTERN U. S.

FORM D

HUNTINGTON ALLOYS
A Special Metals Company,
HUNTINGTON, WEST VIRGINIA 25720

31761-2



CERTIFIED MATERIAL TEST REPORT		No. 50179	
HA ORDER NO./ITEM 100011836 1	DATE 05/13/02	PAGE 3	OF 3
QUANTITY 2190 LBS	INSPECTED BY HA/SNC		
CHARGE ORDER NO. 41137-5-S20062	MARK ORDER NO. 41137-5-S20062		

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLES INSPECTIONS AND TESTS
HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATION
REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES
OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND THAT
THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH
ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT
THE BELOW SIGNS ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQ-
UIREMENTS.

[Signature]
QUALITY CERTIFICATION REPRESENTATIVE

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.
MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPH
AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES :
E. BOLEN.

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 435724001-0	Date Entered Date De Commande Bestelldatum 03/09/05	Customer Reference Reference Client Kundenbestelldaten P05-01004	Report No. Rapport No Zeugnis Nr 20050527112	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
---	--	---	---	--

**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 25 x 25 .SE120-004-20A REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	---	--

Specification • Specification • Spezifikation ASTM-B-443 Chemistry Only, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expeditee Liefermenge 6 PC
---	--	---

Heat Number Numero De Cauder Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 4 6771	0.213		0.021	3.4	0.2638	21.67	0.0581	4.8419	0.2641	8.53	59.82	0.0072	0.003	0.137	0.3317			BUTT END *02
	Ch(Nb)	Ta	Zr	Bi	Se	La	OSI-CL9	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		
2650 4 6771	3.3944	<0.05															BUTT END *02	

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

MTM 016 JUN 09 2005

JUN 9 2005
96872 *[Signature]*

Lenis 1-6

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FIDICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC108864.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 435724001-0	Date Entered Date De Commande Bestelldatum 03/09/05	Customer Reference Reference Client Kundenbestelldaten P05-01004	Report No. Rapport No Zeugnis Nr 20050527112	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 25 x 25 .SE120-004-20A REV:1 HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--	--	--

Specification • Specification • Spezifikation ASTM-B-443 Chemistry Only, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 6 PC	Quantity Shipped Quantité Expédiée Liefermenge 6 PC
---	--	--

Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hie.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraine Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
125000 PSI		60500 PSI	54 %		(1)(A)	Temp:							Temp:				

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005 (1) 2742656901

Amanda Aguirre



JUN 09 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC108864.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Invoice No No. De Facture Rechnungs Nr 435724001-0	Date Entered Date De Commande Bestelldatum 03/09/05	Customer Reference Reference Client Kundenbestelldaten P05-01004	Report No. Rapport No Zeugnis Nr 20050527112	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 25 x 25 .SE120-004-20A REV:1 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation ASTM-B-443 Chemistry Only, 00e1, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 6 PC	Quantity Shipped Quantite Expediee Liefermenge 6 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656901 (6 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician 5/27/2005

Amanda Aguirre



JUN 09 2005

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE MAKING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A CRIME UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MCI08864.TIF4

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on April 19, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-4-6771

2650-5-6797

2650-5-6804

Purchase Order Numbers

P05-00965 – Panel 1

P05-00966 – Panel 10

P05-00967 – Panel 2

P05-00994 – Panel 3

P05-00996 – Panel 4

P05-00997 – Panel 5

P05-00999 – Panel 6

P05-01001 – Panel 7

P05-01002 – Panel 8

P05-01003 – Panel 9

P05-01004 – 25" dia discs

**JUN 09 2005**

Best Regards,

A handwritten signature in black ink, appearing to read "Marlin C. Losch III".

Marlin C. Losch III



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 269530 07
Customer: 2830 004
Mail To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Ship To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Date: 6/01/2005 Page: 1

Steel: 316/316L

Finish: BAAP

Your Order: J07509

NAS Order: AN 0318825 01

Corrosion: ASTM A262/262B; 180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/04a, 480/04a, 666/03, ASME SA240/04, SA480/04, SA666/04
(X GRAIN), Q08766D-A X MG PERM, AMS5507E/AMS5524J X MRK
UNS S31600 / UNS S31603

REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1.B Q08763F Cond A
* Melted & Manufactured in the USA
Minimum anneal temperature 1950 F
EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	-----Length-----	Mark	Pieces
0565H7 CB	* 0565H7 CB	1.5000	48.0000	5,155	PLATE 240.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MN	MO	N	NZ	P	S	SI
65H7	.022	.205	16.953	.417	1.633	2.109	.050	10.110	.034	< .001	.900

MECHANICAL PROPERTIES

Product ID #	Coil #	1 d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	TRCER#
0565H7 CB	0565H7	F T	80.35	42.09	57.50	80.00	119132

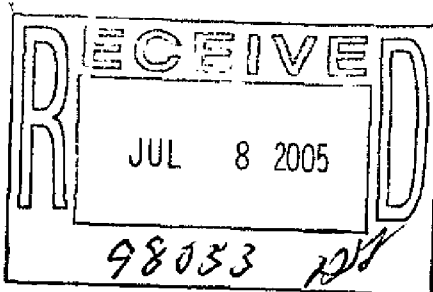


ROLLED ALLOYS QUALITY ASSURANCE
APPROVED *M. Hess*
DATE 6/9/05

QC ENGINEER

E. Hess
ERIC HESS

6/01/2005



lines 1-12

JUL 15 2005



Certificate of Conformance

EXOTIC METAL TREATING INC.

MC111911

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 50413

Vendor Code # 107576

NADCAP

P.O. # P05-05334

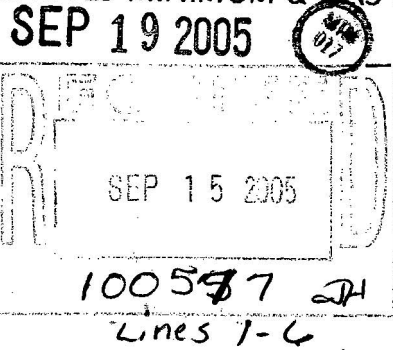
Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1708

DATE SHIPPED 9-15-05

QUANTITY	DESCRIPTION
3 PCS	SE122-018-1A JOB #65678-291/7, 65678-282/8, 65678-282/9 SEQ #50
3 PCS	SE122-018-1B JOB #65678-292/7, 65678-283/8, 65678-283/9 SEQ #50 MATERIAL: 316 SS

SOLUTION ANNEALED PER AMS-2759-4 REV: B IN VACUUM
AT 2000°F ± 25°F FOR 90 MINUTES MINIMUM & GAS FAN COOLED.



Sworn and subscribed to before me...
on 9-15-05
Notary Public Morgan County - State of Indiana
My commission expires 08-30-09

[Signature]
(Name)
QA
(Title)

4275 Ka

CH16 CH02 10.24 87	UPC PF	CH03 95	PF	CH04 84	PF	CH10 147	PF	2500
500	1250	1500	1750	2000	2250	2500		
CH16 CH02 10.24 85	UPC PF	CH03 92	PF	CH04 82	PF	CH10 150	PF	
CH16 CH02 10.24 84	UPC PF	CH03 90	PF	CH04 81	PF	CH10 150	PF	
CH16 CH02 10.24 82	UPC PF	CH03 86	PF	CH04 80	PF	CH10 149	PF	
14 SEP 05	GROUP A	9.00inch/h						#01
CH16 CH02 10.24 80	UPC PF	CH03 82	PF	CH04 79	PF	CH10 143	PF	
14 SEP 05		3.00inch/h						#01
14 SEP 05		3.00inch/h						#01

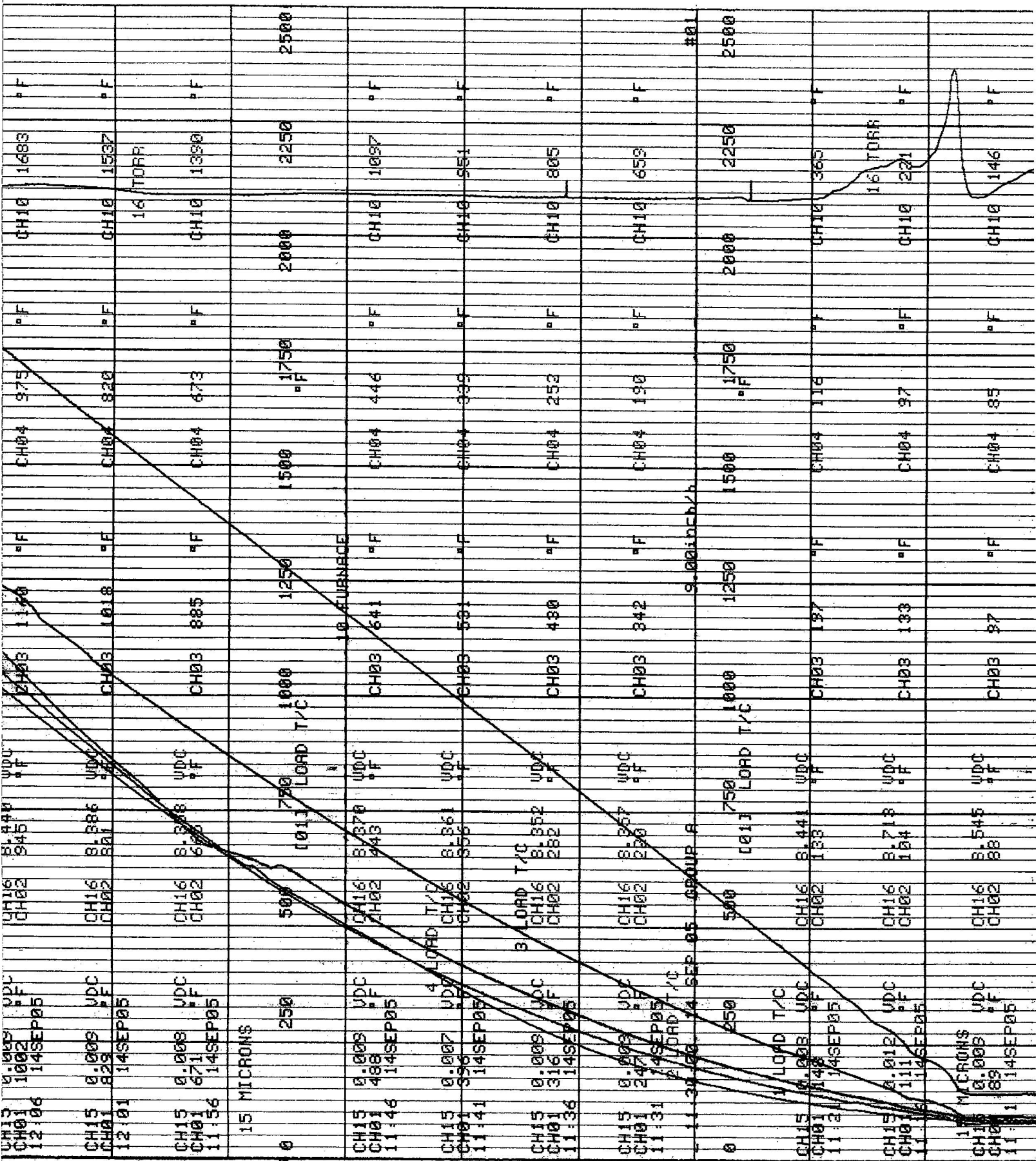
EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 9-14-05 COMPANY: Major Tool
 LOAD #: 05-1708 MATERIAL: 347 55
 QTY: 3 P/N: SE 122-018-1A
3 SE 122-018-1B

FURNACE: V-3 ATMOS: VAC
 REF. SPEC.: AMS 2759/4-B
 RECORDER: V-3 E TIME START: 10:36am

10:35:49 14 SEP 05 PRINT I
 250 500
 2000 2250 2500
 TDRR 16

4275 Ka





104 ENTERPRISE DRIVE
P.O. BOX 419
READING, MICHIGAN 49274
(517) 283-3811
FAX (517) 283-3696

CERTIFICATE OF CONFORMANCE

DATE: January 20, 2006
TO: Major Tool & Machine, Inc.
ATTN: Dave Wilkinson

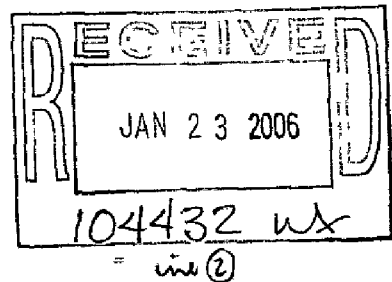
Part Number: SE122-018-1A
Purchase Order #: P06-00205
Part Name: Port 12A Flange
Work Order #: RL 10128
Quantity: One (1)

This is to certify that the above order was processed in accordance with accepted industry standards; polished bottom and sides of groove to a 16 micro-inch surface finish.

Signature: *[Signature]* Title: President Date: 1-20-06



JAN 23 2006



Quality Assurance Documentation for Part ID: SE122-018-1A - Item: 366

Workorder: 65678/9-0 Sub:2 Op:118

Part: SE122-018-1A - PORT 12A SUB-ASSEMBLY - PORT 12A SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	D3	0.94 +/- 0.010"	CALIPER	QA		P-2056	.939/.944	503-B.H 01-24-06			A
1* (20)	D3	R.005 MIN. (2X)	RADIUS GAGE	QA		R-25	ACCEPT	503-B.H 01-24-06			A
1* (30)	D2	.149 + .000/- .008"	DEPTH MICROMET	QA		P-5018	.144/.1445	503-B.H 01-24-06			A
1* (40)	D3	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06			A
1* (50)	D3	63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06			A
1* (60)		32 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	28 (AFTER REWORK)	854-R.U 08-19-06			A



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 269530 07
Customer: 2830 004
Mail To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Ship To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Date: 6/01/2005 Page: 1
Steel: 316/316L
Finish: BAAP

Your Order: J07509

NAS Order: AN 0318825 01

Corrosion: ASTM A262/22a2;180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/04a, 480/04a, 666/03, ASME SA240/04, SA480/04, SA666/04
(X GRAIN), Q08766D-A X MG PERM, AMS5507E/AMS5524J X MRK
UNS S31600 / UNS S31603

REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1.B Q08763F Cond A
* Melted & Manufactured in the USA
Minimum anneal temperature 1950 F
EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	-----Length-----	Mark	Pieces
0565H7 CB	* 0565H7 CB	1.5000	48.0000	5,155	PLATE 240.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MN	MO	N	NZ	P	S	SI
65H7	.022	.205	16.953	.417	1.633	2.109	.050	10.110	.034	< .001	.900

MECHANICAL PROPERTIES

Product ID #	Coil #	1 d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	TRCER#
0565H7 CB	0565H7	F T	80.35	42.09	57.50	80.00	119132

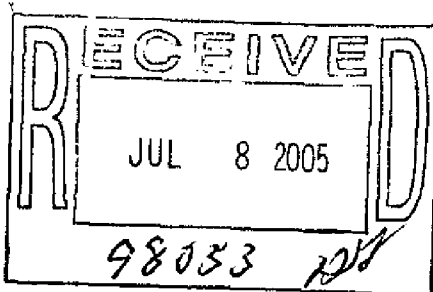


ROLLED ALLOYS QUALITY ASSURANCE
APPROVED *M. Hess*
DATE 6/9/05

QC ENGINEER

E. Hess
ERIC HESS

6/01/2005



lines 1-12

JUL 15 2005

Quality Assurance Documentation for Part ID: SE122-018-1A - Item: 368

Workorder: 65678/9-0 Sub:104 Op:20

Part: SE122-018-1A - NCSX VVSA PORT 12A FLANGE - SE120-004-2 / SE122-018A NCSX VVSA PORT 12A FLANGE

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C8	R2.69 +/- 0.010"	CMM	MFG QA		194	2.687	184-T.HI 08-10-05	212-J.LE 08-10-05	A
1* (20)	B8	R4.69 +/- 0.010"	CMM	MFG QA		194	4.688	184-T.HI 08-10-05	212-J.LE 08-10-05	A
1* (30)	F5	20 DEGREES	CMM	MFG QA		194	20.004	184-T.HI 08-10-05	212-J.LE 08-10-05	A
1* (40)	B5	R7.38 +/- 0.010"	CMM	MFG QA		194	7.376	184-T.HI 08-10-05	212-J.LE 08-10-05	A
1* (50)	B8	R5.38 +/- 0.010"	CMM	MFG QA		194	5.375	184-T.HI 08-10-05	212-J.LE 08-10-05	A



Allegheny Ludlum Jessop Plate Products Division
An Allegheny Technologies Company

500 Green Street CERTIFIED MATERIAL TEST REPORT
Washington, Pennsylvania 15301

Bill to:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

Shipto:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

19320

19320

PHIL CLADITIS
Quality Assurance Represento

Memo No: 260311-00

Our Order no: RW4910400
Your Order No: M E H D
Date: 09/03/2004
DUAL CERT

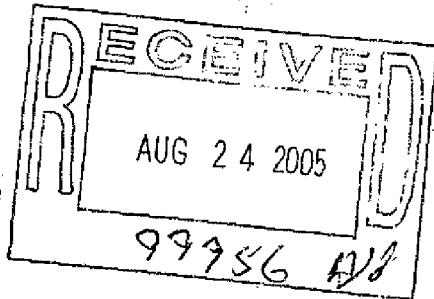
ALC 316/316L STAINLESS HRAP
ASTM A240-04a ASME SA-240-01 ASTM A480-02 ASME SA-480-01
AMS 5507F (316L) AMS 5524K (316) ASTM A666-03 COND A CHEM/PHYS TO
ASTM A312-02 ASME SA-312-01 ASTM A479-02 ASME SA-479-01 ASTM A262-02
PRACTICE E SCREEN PRAC A

Heat	Slip	Lot No	Size	Pcs	Weight
818102	34967 A	143182	1.5000 x 83.0000 x 260.0000	1	9488 GV-STOCK

Heat	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
818102	.018	1.57	.027	.0004	.31	10.14	16.38	2.10	.25	.37	.069

Lot No	Gauge	Yield Strength	Tensile Strength	Elong	Red. of Area	Hardness	Bend	Corrosion	Grain Siz
143182	1.5000	33.9 KSI	81.5 KSI	61.0	81.0	BHN146		OK	

MATERIAL WAS NOT WELD REPAIRED
MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL WAS SOLUTION ANNEALED (HEAT TREATED) ABOVE 1900F AND WATER QUENCHED
DIN 50049 3.1.B AND EN 10204 3.1.B CERTIFICATE
MATERIAL IS OF USA MELT AND MANUFACTURE



TRACER* 109293

MTM 016

8.25.05

Len 1.6

ROLLED AND LOYS QUALITY ASSURANCE

APPROVED *M. Rain*

DATE 9/23/04

PAGE 1 FINAL PAGE

EXCEPT AS OTHERWISE NOTED, THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATIONS AND RESULTS CONFORM TO THE SPECIFICATION AND ORDER REQUIREMENTS. THE ABOVE INFORMATION HAS BEEN REPRODUCED FROM THE ORIGINAL CERTIFIED MATERIAL TEST REPORT.

ORIGINAL



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 269530 07 Mail To: Ship To: Date: 6/01/2005 Page: 1
 Customer: 2830 004 ROLLED ALLOYS ROLLED ALLOYS Steel: 316/316L
 9518 EAST HARDY ROAD 9518 EAST HARDY ROAD Finish: BRAS
 HOUSTON, TX 77093 HOUSTON, TX 77093 Corrosion: ASTM A262/D2aE;180Sand-OR
 Your Order: JO7509 NAS Order: AN 0316825 01

PRODUCT DESCRIPTION:
 STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
 ASTM A240/04a, 480/04a, 566/03, AMS 55240/04, SA 480/04, SA 666/04
 (X GRAIN), Q08766D-A X NO PERM, AMS 5507E/AMS 5524J X MX
 UNS S31600 / UNS S31603

REMARKS:
 Material free from mercury contamination. No weld repairs.
 EN 10204 3.1.B Q08763F Cond A
 * Melted & Manufactured in the USA
 Minimum anneal temperature 1950 F
 EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	Length	Mark	Pieces
0565H7 CB	* 0565H7 CB	1.5000	48.0000	5,155 PLATE	240.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MN	MO	N	NI	P	S	SI
65H7	.022	.205	16.953	.417	1.633	2.109	.050	10.110	.034	< .001	.500

MECHANICAL PROPERTIES

Product ID #	Coil #	Id	UTS	% YS	ELONG	Hard
		o i	KSI	KSI	%-2"	RB
		c r				
0565H7 CB	0565H7	F T	80.35	42.09	57.50	80.00

ROLLED ALLOYS QUALITY ASSURANCE
 APPROVED *M. Hess*
 DATE 6/9/05

QC ENGINEER *E. Hess* ERIC HESS 6/01/2005

MTM 016
8.28.08

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-018-1A - Item: 370

Workorder: 65678/9-0 Sub:282 Op:20

Part: SE122-018-1A - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C8	R2.69 +/- 0.010"	CMM	MFG QA		00064	2.691	212-J.LE 09-01-05	212-J.LE 09-01-05	A
1* (20)	B8	R4.69 +/- 0.010"	CMM	MFG QA		00064	4.6925	212-J.LE 09-01-05	212-J.LE 09-01-05	A
1* (30)	F5	20 DEGREES	CMM	MFG QA		00064	20.017	212-J.LE 09-01-05	212-J.LE 09-01-05	A
1* (40)	B5	R7.38 +/- 0.010"	CMM	MFG QA		00064	7.374	212-J.LE 09-01-05	212-J.LE 09-01-05	A
1* (50)	B8	R5.38 +/- 0.010"	CMM	MFG QA		00064	5.381	212-J.LE 09-01-05	212-J.LE 09-01-05	A



Allegheny Ludlum Jessop Plate Products Division
An Allegheny Technologies Company

500 Green Street CERTIFIED MATERIAL TEST REPORT
Washington, Pennsylvania 15301

Bill to:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

Shipto:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

19320

19320

PHIL CLADITIS
Quality Assurance Represento

Memo No: 260311-00

Our Order no: RW4910400
Your Order No: H E H D
Date: 09/03/2004
DUAL CERT

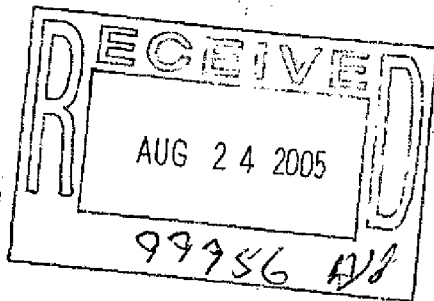
ALC 316/316L STAINLESS HRAP
ASTM A240-04a ASME SA-240-01 ASTM A480-02 ASME SA-480-01
AMS 5507F (316L) AMS 5524K (316) ASTM A666-03 COND A CHEM/PHYS TO
ASTM A312-02 ASME SA-312-01 ASTM A479-02 ASME SA-479-01 ASTM A262-02
PRACTICE E SCREEN PRAC A

Heat	Slip	Lot No	Size	Pcs	Weight
818102	34967 A	143182	1.5000 x 83.0000 x 260.0000	1	9488 GV-STOCK

Heat	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
818102	.018	1.57	.027	.0004	.31	10.14	16.38	2.10	.25	.37	.069

Lot No	Gauge	Yield Strength	Tensile Strength	Elong	Red. of Area	Hardness	Bend	Corrosion	Grain Siz
143182	1.5000	33.9 KSI	81.5 KSI	61.0	81.0	BHN146		OK	

MATERIAL WAS NOT WELD REPAIRED
MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL WAS SOLUTION ANNEALED (HEAT TREATED) ABOVE 1900F AND WATER QUENCHED
DIN 50049 3.1.B AND EN 10204 3.1.B CERTIFICATE
MATERIAL IS OF USA MELT AND MANUFACTURE



TRACER* 109293

MTM 016

8.25.05

Len 1.6

ROLLED AND LOYS QUALITY ASSURANCE
APPROVED *M. Rain*
DATE 9/23/04

PAGE 1 FINAL PAGE

EXCEPT AS OTHERWISE NOTED, THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATIONS AND RESULTS CONFORM TO THE SPECIFICATION AND ORDER REQUIREMENTS. THE ABOVE INFORMATION HAS BEEN REPRODUCED FROM THE ORIGINAL CERTIFIED MATERIAL TEST REPORT.

ORIGINAL



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 269530 07 Mail To: Ship To: Date: 6/01/2005 Page: 1
 Customer: 2830 004 ROLLED ALLOYS ROLLED ALLOYS Steel: 316/316L
 9518 EAST HARDY ROAD 9518 EAST HARDY ROAD Finish: BRAS
 HOUSTON, TX 77093 HOUSTON, TX 77093 Corrosion: ASTM A262/D2aE;180Sand-OR
 Your Order: JO7509 NAS Order: AN 0316825 01

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
 ASTM A240/04a, 480/04a, 566/03, AMS 55240/04, SA 480/04, SA 666/04
 (X GRAIN), QQ8766D-A X NO PERM, AMS 5507E/AMS 5524J X NOX
 UNS S31600 / UNS S31603

REMARKS:

Material free from mercury contamination. No weld repairs.
 EN 10204 3.1.B QQ8763F Cond A
 * Melted & Manufactured in the USA
 Minimum anneal temperature 1950 F
 EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	Length	Mark	Pieces
0565H7 CB	* 0565H7 CB	1.5000	48.0000	5,155 PLATE	240.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MN	MO	N	NI	P	S	SI
65H7	.022	.205	16.953	.417	1.633	2.109	.050	10.110	.034	< .001	.500

MECHANICAL PROPERTIES

Product ID #	Coil #	Id	UTS	% YS	ELONG	Hard
		o i	KSI	KSI	%-2"	RB
		c r				
0565H7 CB	0565H7	F T	80.35	42.09	57.50	80.00



ROLLED ALLOYS QUALITY ASSURANCE
 APPROVED *M. Hess*
 DATE 6/9/05

QC ENGINEER *E. Hess* ERIC HESS 6/01/2005



8.28.08



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
801 TWIN RAIL DRIVE
MINOOKA, IL 60447

NORTH AMERICAN STAINLESS

Certificate: 2918 6 Mail To: Ship To: Date: 10/31/2005 Page: 1
 ROLLED ALLOYS
 125 W. STERNS RD.
 TEMPERANCE, MI 48182

Customer: 002830 001 Steel: 316/316L

Finish: HRAP

Your Order: T53983 NAS Order: IN 0002075 01 Corrosion: ASTM A262/02aE, 180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
 ASTM A240/04a, 480/04a, 666/03, ASME SA240/04, SA480/04, SA666/04
 (X GRAIN), QQS766D-A X MG PERM, AMS5507F/AMS5524J X MRK

REMARKS:

Material free from mercury contamination. No weld repairs.
 EN 10204 3.1.B QQS763F Cond A
 NACE MRO 175 EN 10204 3.1.B
 Melted & Manufactured in the USA



TRACER# 124587

2533

Product Id	Coil #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
0373K4 BB	0373K4 BB	1.5075	48.0000	2,560	PLATE 120.00	1	1	

CHEMICAL ANALYSIS

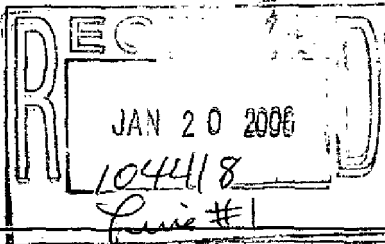
Heat	C	CR	CU	MN	MO	N	NI	P	S	SI
73K4	.024	17.091	.325	1.738	2.250	.053	10.190	.029	.002	.215

MECHANICAL PROPERTIES

Product Id#	Coil #	l d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB
0373K4 BB	0373K4 BB	F T	84.11	46.23	56.48	85.00



JAN 23 2006



ROLLED ALLOYS QUALITY ASSURANCE
 APPROVED: *[Signature]*
 DATE: 11-3-05

[Signature] QC ENGINEER *[Signature]* ERIC HESS 10/31/2005

MC115502.TIF1



104 ENTERPRISE DRIVE
P.O. BOX 419
READING, MICHIGAN 49274
(517) 283-3811
FAX (517) 283-3696

CERTIFICATE OF CONFORMANCE

DATE: January 20, 2006
TO: Major Tool & Machine, Inc.
ATTN: Dave Wilkinson

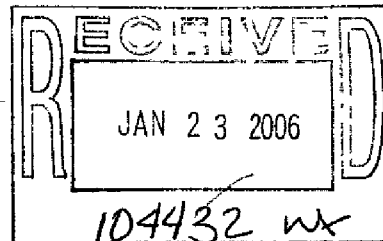
Part Number: SE122-018-1B
Purchase Order #: P06-00205
Part Name: Port 12B Flange
Work Order #: RL 10128
Quantity: One (1)

This is to certify that the above order was processed in accordance with accepted industry standards; polished bottom and sides of groove to a 16 micro-inch surface finish.

Signature: *[Signature]* Title: President Date: 1-20-06



JAN 23 2006



wie(3)

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-018-1B - Item: 378

Workorder: 65678/9-0 Sub:3 Op:118

Part: SE122-018-1B - PORT 12B SUB-ASSEMBLY - PORT 12B SUB-ASSEMBLY (VERTICAL FABRICATED PORT)

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	D3	0.94 +/- 0.010"	CALIPER	QA		P-2056	.939/.944	503-B.H 01-24-06		A
1* (20)	D3	R.005 MIN. (2X)	RADIUS GAGE	QA		R-25	ACCEPT	503-B.H 01-24-06		A
1* (30)	D2	.149 + .000/- .008"	DEPTH MICROMET	QA		P-5018	.145/.146	503-B.H 01-24-06		A
1* (40)	D3	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06		A
1* (50)	D3	63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06		A
1* (60)		32 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	30 (AFTER REWORK)	854-R.U 08-19-06		A

Quality Assurance Documentation for Part ID: SE122-018-1B - Item: 379

Workorder: 65678/9-0 Sub:314 Op:118

Part: SE122-018-1B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	D3	0.94 +/- 0.010"	CALIPER	QA		J-1099	.946	854-R.U 01-30-06			A
1* (20)	D3	R.005 MIN. (2X)	RADIUS GAGE	QA		R-24	.008 (2X)	854-R.U 01-30-06			A
1* (30)	D2	.149 + .000/- .008"	CALIPER	QA		J-1099	.144	854-R.U 01-30-06			A
1* (40)	D3	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	8	854-R.U 01-30-06			A
1* (50)	D3	63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	20	854-R.U 01-30-06			A
1* (60)		32 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	30 (AFTER REWORK)	854-R.U 08-19-06			A

Quality Assurance Documentation for Part ID: SE122-018-1B - Item: 380

Workorder: 65678/9-0 Sub:315 Op:20

Part: SE122-018-1B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C8	R2.69 +/- 0.010"	INDICATOR	MFG QA		P-920	R 2.685	234-E.B 01-21-06	854-R.U 01-21-06	A
1* (20)	B8	R4.69 +/- 0.010"	INDICATOR	MFG QA		P-920	R 4.686	234-E.B 01-21-06	854-R.U 01-21-06	A
1* (30)	F5	20 DEGREES	INDICATOR	MFG QA		P-920 MACH.	20. ACC.	234-E.B 01-21-06	854-R.U 01-21-06	A
1* (40)	B5	R7.38 +/- 0.010"	INDICATOR	MFG QA		P-920	R 7.374	234-E.B 01-21-06	854-R.U 01-21-06	A
1* (50)	B8	R5.38 +/- 0.010"	INDICATOR	MFG QA		P-920	R 5.374	234-E.B 01-21-06	854-R.U 01-21-06	A

Outokumpu Stainless Plate, Inc.



Certificate of Analysis and Tests

OUR ORDER 0244161 - 01

HEAT & PIECE 604254-2B 03/28/05

SOLD TO: ROLLED ALLOYS
P O BOX 310

SHIP TO: ROLLED ALLOYS
125 WEST STERNS ROAD
734-847-0561
TEMPERANCE MI 48182

TEMPERANCE

MI 48182

TEMPERANCE

MI 48182

----- YOUR ORDER & DATE -----

T51463

2/03/05

TAG# 3003-2599-00-1

----- ITEM DESCRIPTION -----

HEAT & PIECE 604254 - 2B
WEIGHT 1516
FINISH 1
GRADE 316L / 316
DIMENSIONS .187 X 96.000 X 265.000 EXACT
UNS-S31603 / UNS-S31600

----- SPECIFICATIONS -----

*** MFG IN NEW CASTLE, IN, USA FROM SLABS IMPORTED FROM SWEDEN
AMS 5507F EXCEPT LINE MARK AMS 5524K EXCEPT LINE MARK
ASTMA240-04A ASMESA240 04 ED ASTM A480-04 ASME SA480 04ED
ROLLED ALLOYS SPECS 316L/316 NAETA CTRY ORIGIN = SLB CTRY
NO GRIPPER MARKS NO WELD REPAIRS
ASTM A262-02A PRACTICE A ASTM A262-02A PRACTICE E

PLATES & TEST PCS SOLUTION ANNEALED @ 1950 DEGREES FAHRENHEIT MINIMUM.
THEN WATER COOLED OR RAPIDLY COOLED BY AIR
FREE FROM MERCURY CONTAMINATION AT CURRENT DETECTION LIMITS
HOT ROLLED, ANNEALED & PICKLED (HRAP)

----- MECHANICAL & OTHER TESTS -----

HARDNESS RB 76
GRAIN SIZE 5
YIELD STRENGTH (PSI) 37198
TENSILE STRENGTH (PSI) 83880
BEND OK
INTERGRANULAR CORROSION OK
ELONGATION % IN 2" 50.1
REDUCTION OF AREA % 64.7

ISO 9001-2000
DIN Cert.#
10380

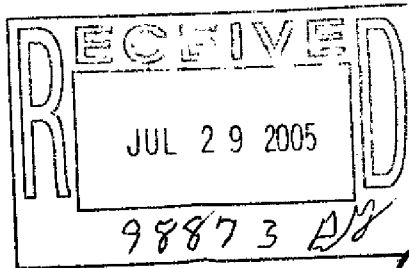


TRACER# 116158

----- CHEMICAL COMPOSITION -----

CARBON	(C)	.016
MANGANESE	(MN)	1.72
PHOSPHORUS	(P)	.032
SULFUR	(S)	.001
SILICON	(SI)	.35
CHROMIUM	(CR)	16.44
NICKEL	(NI)	10.16
COBALT	(CO)	.19
COPPER	(CU)	.47
MOLY	(MO)	2.04
NITROGEN	(N)	.04
COLUMBIUM	(CB)	.013
TITANIUM	(TI)	.004
ALUMINUM	(AL)	.007
TIN	(SN)	.008

AUG 03 2005



ROLLED ALLOYS QUALITY ASSURANCE

APPROVED *Car Reed*

DATE 3-29-05



WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATION(S) AND THAT THE RESULTS OF ALL TESTS ARE ACCEPTABLE.

JAMES DOUBMAN, QUALITY ASSURANCE MANAGER

CERTIFICATE IN CONFORMANCE WITH DIN50049 3.1.B/EN10204 3.1.B

James Douberman

Quality Assurance Documentation for Part ID: SE122-019-1A - Item: 382

Workorder: 65678/9-0 Sub:107 Op:20

Part: SE122-019-1A - PORT 12A SEAL RETAINER - SE120-004-3 / SE122-019-1A PORT 12A SEAL RETAINER

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 + 0 / - 0.008"	OD MICROMETER	MFG QA		P-3743	.1465 - .148	445-J.PU 10-27-05	591-C.P 10-27-05	A
1* (20)	G4	0.54 +/- 0.010" (CONSTANT)	CALIPER	MFG QA		P-3738	.548	274-M. 10-26-05	591-C.P 10-27-05	A
1* (30)	G3	75.0 deg. +/- 0 deg. 15' (2X)		MFG QA		ZOLLER	75	274-M. 10-26-05	591-C.P 10-27-05	A
1* (40)	F4	63 MICRO-INCH SURFACE FINISH (2X)	PROFILOMETER	MFG QA		J-1181	47	274-M. 10-26-05	591-C.P 10-27-05	A
1* (50)	D6	DIA. 0.187 (+/- 0.005") (8X)	PIN GAGE	MFG QA		J-667	.187	274-M. 10-26-05	591-C.P 10-27-05	A
1* (60)	D6	0.094 +/- 0.005 (8X)	DEPTH MICROMET	MFG QA		P-4363	.096	274-M. 10-26-05	591-C.P 10-27-05	A
1* (70)	D6	DIA. 0.343 +/- 0.005" (8X)	PIN GAGE	MFG QA		J-668	.343	274-M. 10-26-05	591-C.P 10-27-05	A
1* (80)	D6	⊕ ∅0.012 A B C - D (8X)	INDICATOR	MFG QA		P-4964	.003	274-M. 10-26-05	591-C.P 10-27-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-019-1A - Item: 383

Workorder: 65678/9-0 Sub:107 Op:30

Part: SE122-019-1A - PORT 12A SEAL RETAINER - SE120-004-3 / SE122-019-1A PORT 12A SEAL RETAINER

Drawing ID: SE122-019 Rev: 1		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H		
(10)		Magnetic Permeability 1.02 Max						11-01-05		

A

Quality Assurance Documentation for Part ID: SE122-019-1B - Item: 385

Workorder: 65678/9-0 Sub:120 Op:20

Part: SE122-019-1B - PORT 12B SEAL RETAINER - SE120-004-3 / SE122-019-1B PORT 12B SEAL RETAINER

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 + 0 / - 0.008"	OD MICROMETER	MFG QA		P-3743	.146 - .149	445-J.PU 10-27-05	591-C.P 10-27-05	A
1* (20)	G4	0.54 +/- 0.010" (CONSTANT)	CALIPER	MFG QA		P-5041	.540-.543	601-K.R 10-26-05	591-C.P 10-27-05	A
1* (30)	G3	75.0 deg. +/- 0 deg. 15' (2X)	PROTRACTOR	MFG QA		P-5043	75.	601-K.R 10-26-05	591-C.P 10-27-05	A
1* (40)	F4	63 MICRO-INCH SURFACE FINISH (2X)	PROFILOMETER	MFG QA		J-1181	34.8	601-K.R 10-26-05	591-C.P 10-27-05	A
1* (50)	D6	DIA. 0.187 (+/- 0.005") (8X)		MFG QA		GAGE PIN	LOW LIMIT - GO/HIGH LIMIT - NO GO (J-6 67)	601-K.R 10-26-05	591-C.P 10-27-05	601-K.R 10-26-05
1* (60)		0.094 +/- 0.005 (8X)	DEPTH MICROMET	MFG QA	D6	P-5045	.093-.095	601-K.R 10-26-05	591-C.P 10-27-05	A
1* (70)	D6	DIA. 0.343 +/- 0.005" (8X)	PIN GAGE	MFG QA		J-668	LOW LIMIT - GO/HIGH LIMIT - NO GO	601-K.R 10-26-05	591-C.P 10-27-05	A
1* (80)	D6	⊕ ∅0.012 A B C - D (8X)	INDICATOR MACHINE	MFG QA		P-5046 571	W/IN .002	601-K.R 10-26-05	591-C.P 10-27-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-019-1B - Item: 386

Workorder: 65678/9-0 Sub:120 Op:30

Part: SE122-019-1B - PORT 12B SEAL RETAINER - SE120-004-3 / SE122-019-1B PORT 12B SEAL RETAINER

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H		
(10)		Magnetic Permeability 1.02 Max						11-01-05		

A



104 ENTERPRISE DRIVE
P.O. BOX 419
READING, MICHIGAN 49274
(517) 283-3811
FAX (517) 283-3696

CERTIFICATE OF CONFORMANCE

DATE: January 20, 2006
TO: Major Tool & Machine, Inc.
ATTN: Dave Wilkinson

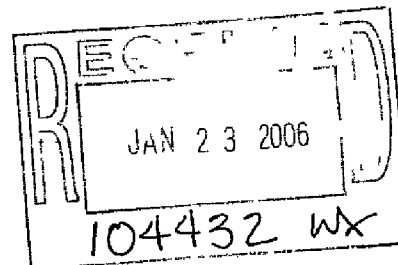
Part Number: SE122-049-1A
Purchase Order #: P06-00205
Part Name: Port 4A Flange
Work Order #: RL 10128
Quantity: One (1)

This is to certify that the above order was processed in accordance with accepted industry standards; polished bottom and sides of groove to a 16 micro-inch surface finish.

Signature: [Handwritten Signature] Title: President Date: 1-20-06



JAN 23 2006



one ①

Quality Assurance Documentation for Part ID: SE122-049-1A - Item: 389

Workorder: 65678/9-0 Sub:8 Op:118

Part: SE122-049-1A - PORT 4A SUB-ASSEMBLY - PORT 4A SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)		0.94 +/- 0.010"	CALIPER	QA		P-2056	.939/.941	503-B.H 01-24-06			A
1* (20)		R.005 MIN. (2X)	RADIUS GAGE	QA		R-25	ACCEPT	503-B.H 01-24-06			A
Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (30)	D2	.153 + .000/- .003"	DEPTH MICROMET	QA		P-5018	.151/.152	503-B.H 01-24-06			A
Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (40)		16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06			A
1* (50)		63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4	503-B.H 01-24-06			A

Quality Assurance Documentation for Part ID: SE122-049-1A - Item: 390

Workorder: 65678/9-0 Sub:126 Op:20

Part: SE122-049-1A - NCSX VVSA PORT 4A FLANGE - SE120-004-5 / SE122-049A NCSX VVSA PORT 4A FLANGE

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		R4.33 +/- 0.010" (4x)	CMM	MFG QA		00064	4.327	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (20)		23.66 +/- 0.010"	CALIPER	MFG QA		J-549	23.656	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (30)		34.66 +/-0.010"	CALIPER	MFG QA		J-549	34.653	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (40)		40.00 +/- 0.010"	CALIPER	MFG QA		J-549	39.998	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (50)		29.00 +/- 0.010"	CALIPER	MFG QA		J-549	29.00	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (60)		R7.00 +/- 0.010" (4x)	CMM	MFG QA		00064	6.997	688-S.A 08-15-05	591-C.P 08-15-05	A



Certificate of Conformance

EXOTIC METAL TREATING INC.

MC111897

Certificate # 50353

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

NADCAP

P.O. # P05-05154

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1647

DATE SHIPPED 9-2-05

QUANTITY

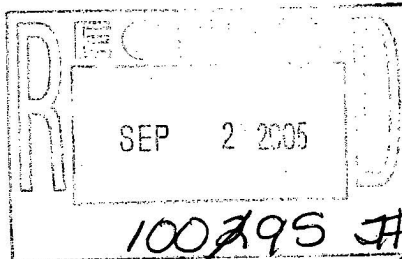
DESCRIPTION

2 PCS	SE122-049-1B
	JOB #65678-145/8, 65678-145/9 SEQ #50
2 PCS	SE122-049-1A
	JOB #65678-126/8, 65678-126/9 SEQ #50
	MATERIAL: 316 SS

SOLUTION ANNEALED PER AMS-2759-4 REV: B IN VACUUM
AT 2000°F ± 25°F FOR 90 MINUTES MINIMUM & GAS FAN COOLED.



SEP 12 2005



Sworn and subscribed to before me...

09-2-05

Notary Public Morgan County, State of Indiana

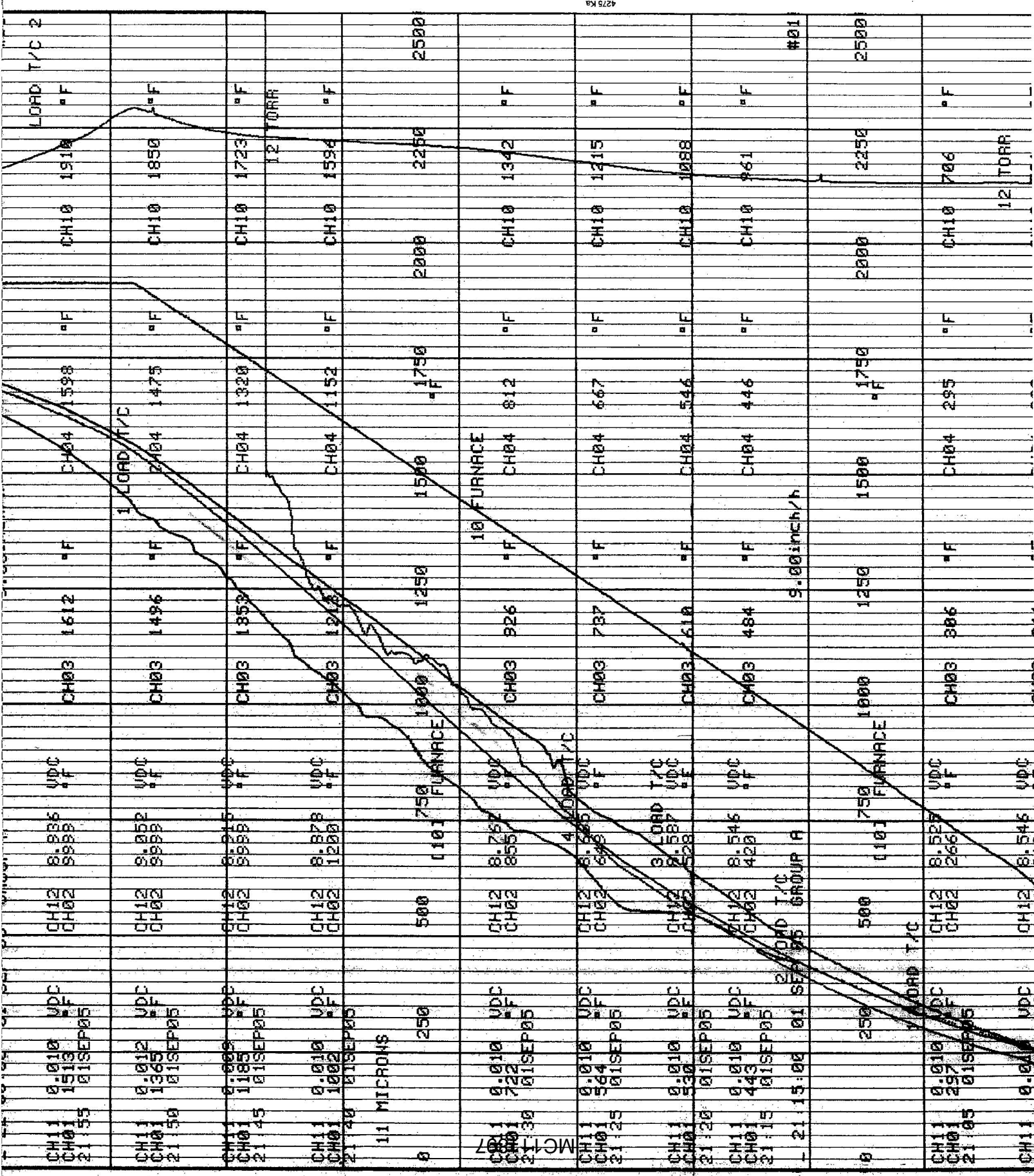
My commission expires 9-30-09

[Signature]

(Name)

[Signature]

(Title)



4275 Ka

LOAD T/C 2

1 LOAD T/C

10 FURNACE

750 FURNACE

4 TORR T/C

LOAD T/C

750 FURNACE

12 TORR

CH11 0:010 UDC
CH01 1513 °F
21:55 01SEP05

CH11 0:012 UDC
CH01 1365 °F
21:50 01SEP05

CH11 0:009 UDC
CH01 1185 °F
21:45 01SEP05

CH11 0:010 UDC
CH01 1002 °F
21:40 01SEP05

11 MICRONS

250

CH11 0:010 UDC
CH01 722 °F
21:30 01SEP05

CH11 0:010 UDC
CH01 564 °F
21:25 01SEP05

CH11 0:010 UDC
CH01 530 °F
21:20 01SEP05

CH11 0:010 UDC
CH01 443 °F
21:15 01SEP05

21:15:00 01 SEP 05 GROUP A

250

CH11 0:010 UDC
CH01 297 °F
21:05 01SEP05

CH11 0:010 UDC

CH12 8:336 UDC
CH02 9999 °F

CH12 8:332 UDC
CH02 9999 °F

CH12 8:315 UDC
CH02 9999 °F

CH12 8:378 UDC
CH02 1200 °F

500
CH12 8:267 UDC
CH02 255 °F

CH12 8:265 UDC
CH02 299 °F

CH12 8:587 UDC
CH02 528 °F

CH12 8:546 UDC
CH02 420 °F

500
CH12 8:525 UDC
CH02 266 °F

CH12 8:546 UDC

CH03 1612 °F

CH03 1496 °F

CH03 1359 °F

CH03 1212 °F

1250

CH03 926 °F

CH03 737 °F

CH03 610 °F

CH03 484 °F

1000

CH03 386 °F

CH04 1598 °F

CH04 1475 °F

CH04 1320 °F

CH04 1152 °F

1500

CH04 812 °F

CH04 667 °F

CH04 546 °F

CH04 446 °F

1500

CH04 295 °F

CH10 1910 °F

CH10 1850 °F

CH10 1723 °F

CH10 1596 °F

2000

CH10 1342 °F

CH10 1215 °F

CH10 1088 °F

CH10 961 °F

2250

CH10 706 °F

LOAD T/C 2

#01

12 TORR

2500

2500

2500

CH11	CH01	CH02	CH03	CH04	CH10	MICRONS
10.23 UDC	10.24 UDC	10.24 UDC	1968 °F	1974 °F	1794 °F	11
1949 °F	1790 °F	1790 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
00:25 02SEP85						
CH11 0.010 UDC	CH12 7.888 UDC	CH12 2000 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
00:20 02SEP85						
CH11 0.010 UDC	CH12 7.469 UDC	CH12 2000 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
00:15 02SEP85						
CH11 0.010 UDC	CH12 7.532 UDC	CH12 2000 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
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250	500	1000	1250	1500	1750	2500
00:11 02SEP85						
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CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
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CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
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CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
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CH11 0.010 UDC	CH12 7.874 UDC	CH12 2000 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
CH01 1998 °F	CH02 2000 °F	2000 °F	2005 °F	2005 °F	2000 °F	
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250	500	1000	1250	1500	1750	2500
00:40 01SEP85						
CH11 0.010 UDC	CH12 7.864 UDC	CH12 1999 °F	CH03 2005 °F	CH04 2005 °F	CH10 2000 °F	
CH01 1997 °F	CH02 1999 °F	1999 °F	2005 °F	2005 °F	2000 °F	
00:35 01SEP85						

4275 Ka

MC11897

MC111897

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CH01	18.23	"F	CH02	158	"F	CH03	210	"F	1250	1500	1750	2000	2250	2500
01:50	02 SEP 85		01:50	02 SEP 85		01:50	02 SEP 85		9.00inch/h					#01
0	250		500	750	1000	1250	1500	1750	2000	2250	2500			
10	FURNACE		10	FURNACE		10	FURNACE							
01:10	02 SEP 85	GROUP A	01:10	02 SEP 85	GROUP A	01:10	02 SEP 85							
CH11	18.23	UPC	CH12	18.23	UPC	CH03	258	"F	1250	1500	1750	2000	2250	2500
CH01	18.23	"F	CH02	178	"F	CH03	253	"F	1250	1500	1750	2000	2250	2500
01:40	02 SEP 85		01:40	02 SEP 85		01:40	02 SEP 85							
01:35	02 SEP 85		01:35	02 SEP 85		01:35	02 SEP 85							
01:25	02 SEP 85		01:25	02 SEP 85		01:25	02 SEP 85							
01:20	02 SEP 85		01:20	02 SEP 85		01:20	02 SEP 85							
01:15	02 SEP 85		01:15	02 SEP 85		01:15	02 SEP 85							
01:10	02 SEP 85		01:10	02 SEP 85		01:10	02 SEP 85							
01:05	02 SEP 85		01:05	02 SEP 85		01:05	02 SEP 85							
01:00	02 SEP 85		01:00	02 SEP 85		01:00	02 SEP 85							
00:55	02 SEP 85		00:55	02 SEP 85		00:55	02 SEP 85							
00:50	02 SEP 85		00:50	02 SEP 85		00:50	02 SEP 85							
00:45	02 SEP 85		00:45	02 SEP 85		00:45	02 SEP 85							
00:40	02 SEP 85		00:40	02 SEP 85		00:40	02 SEP 85							
00:35	02 SEP 85		00:35	02 SEP 85		00:35	02 SEP 85							
00:30	02 SEP 85		00:30	02 SEP 85		00:30	02 SEP 85							
00:25	02 SEP 85		00:25	02 SEP 85		00:25	02 SEP 85							
00:20	02 SEP 85		00:20	02 SEP 85		00:20	02 SEP 85							
00:15	02 SEP 85		00:15	02 SEP 85		00:15	02 SEP 85							
00:10	02 SEP 85		00:10	02 SEP 85		00:10	02 SEP 85							
00:05	02 SEP 85		00:05	02 SEP 85		00:05	02 SEP 85							
00:00	02 SEP 85		00:00	02 SEP 85		00:00	02 SEP 85							



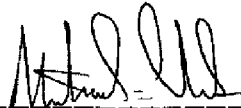
104 ENTERPRISE DRIVE
P.O. BOX 419
READING, MICHIGAN 49274
(517) 283-3811
FAX (517) 283-3696

CERTIFICATE OF CONFORMANCE

DATE: January 24, 2006
TO: Major Tool & Machine, Inc.
ATTN: Dave Wilkinson

Part Number: SE122-049-1B
Purchase Order #: P06-00205
Part Name: Port 4B Flange
Work Order #: RL 10128
Quantity: One (1)

This is to certify that the above order was processed in accordance with accepted industry standards; polished bottom and sides of groove to a 16 micro-inch surface finish.

Signature:  Title: President Date: 1-24-06

MTM
016
JAN 31 2006

RECEIVED
JAN 30 2006
104665
Line # 4
AKU

Quality Assurance Documentation for Part ID: SE122-049-1B - Item: 394

Workorder: 65678/9-0 Sub:9 Op:118

Part: SE122-049-1B - PORT 4B SUB-ASSEMBLY - PORT 4B SUB-ASSEMBLY (PERSONNEL ACCESS PORT)

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)		0.94 +/- 0.010"	CALIPER	QA		J-1099	.941	854-R.U 01-30-06			A
1* (20)		R.005 MIN. (2X)	RADIUS GAGE	QA		R-24	.008	854-R.U 01-30-06			A
Drawing ID: SE122-018 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (30)	D2	.153 + .000/- .003"	CALIPER	QA		J-1099	154	854-R.U 01-30-06			A
Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (40)		16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	7	854-R.U 01-30-06			A
1* (50)		63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	16	854-R.U 01-30-06			A

Quality Assurance Documentation for Part ID: SE122-049-1B - Item: 395

Workorder: 65678/9-0 Sub:145 Op:20

Part: SE122-049-1B - NCSX VVSA PORT 4B FLANGE -

Drawing ID: SE122-049 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		R4.33 +/- 0.010" (4x)	CMM	MFG QA		00064	4.327	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (20)		23.66 +/- 0.010"	CALIPER	MFG QA		J-549	23.657	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (30)		34.66 +/-0.010"	CALIPER	MFG QA		J-549	34.656	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (40)		40.00 +/- 0.010"	CALIPER	MFG QA		J-549	39.997	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (50)		29.00 +/- 0.010"	CALIPER	MFG QA		J-549	28.998	688-S.A 08-15-05	591-C.P 08-15-05	A
1* (60)		R7.00 +/- 0.010" (4x)	CMM	MFG QA		00064	6.997	688-S.A 08-15-05	591-C.P 08-16-05	A

Quality Assurance Documentation for Part ID: SE122-057-1A - Item: 399

Workorder: 65678/9-0 Sub:131 Op:20

Part: SE122-057-1A - PORT 4A SEAL RETAINER - SE122-057-1A PORT 4A SEAL RETAINER

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 + 0 / - 0.008"	OD MICROMETER	MFG QA		P-3745	0.145-0.147 (REWORK PER N/C # 18321)	854-R.U 08-19-06	591-C.P 10-03-05	A
1* (20)	G4	0.54 +/- 0.010" (CONSTANT)	CALIPER	MFG QA		P-3736	RANGE .537 - .542	445-J.PU 09-30-05	591-C.P 10-03-05	A
1* (30)	G3	75.0 deg. +/- 0 deg. 15' (2X)		MFG QA		ZOLLER	74.98	445-J.PU 09-30-05	591-C.P 10-03-05	A
1* (40)	F4	63 MICRO-INCH SURFACE FINISH (2X)		MFG QA		VISUAL	40	591-C.P 10-03-05	591-C.P 10-03-05	A
1* (50)	D6	DIA. 0.187 (+/- 0.005") (8X)	PIN GAGE	MFG QA		J-667	.182 GO - .192 NO GO	445-J.PU 09-30-05	591-C.P 10-03-05	A
1* (60)	D6	0.094 +/- 0.005 (8X)	DEPTH MICROMET	MFG QA		P-4900	.092 - .094	445-J.PU 09-30-05	591-C.P 10-03-05	A
1* (70)	D6	DIA. 0.343 +/- 0.005" (8X)	PIN GAGE	MFG QA		J-668	.338 GO - .348 NO GO	445-J.PU 09-30-05	591-C.P 10-03-05	A
1* (80)	D6	⊕ ∅0.012 A B C - D (8X)	MACHINE INDICATOR	MFG QA		571 P-3749	RANGE .0016 - .0 04	445-J.PU 09-30-05	591-C.P 10-03-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-057-1A - Item: 400

Workorder: 65678/9-0 Sub:131 Op:30

Part: SE122-057-1A - PORT 4A SEAL RETAINER - SE122-057-1A PORT 4A SEAL RETAINER

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H		
(10)		Magnetic Permeability 1.02 Max						11-15-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-057-1A - Item: 401

Workorder: 65678/9-0 Sub:292 Op:10

Part: SE122-057-1A - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-057 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 +0/- .008"	DEPTH MICROMET	MFG QA		P-4759	.144-.146	274-M. 10-25-05	854-R.U 10-25-05	

A

Quality Assurance Documentation for Part ID: SE122-057-1B - Item: 402

Workorder: 65678/9-0 Sub:150 Op:20

Part: SE122-057-1B - PORT 4B SEAL RETAINER -

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 + 0 / - 0.008"	OD MICROMETER	MFG QA		P-3743	0.142-0.146	854-R.U 08-19-06	591-C.P 10-03-05	A
1* (20)	G4	0.54 +/- 0.010" (CONSTANT)	INDICATOR	MFG QA		P-4801	RANGE .543 - .546	445-J.PU 10-03-05	591-C.P 10-03-05	A
1* (30)	G3	75.0 deg. +/- 0 deg. 15' (2X)		MFG QA		ZOLLER	74.98	445-J.PU 10-03-05	591-C.P 10-03-05	A
1* (40)	F4	63 MICRO-INCH SURFACE FINISH (2X)		MFG QA		VISUAL	40	445-J.PU 10-03-05	503-B.H 10-03-05	A
1* (50)	D6	DIA. 0.187 (+/- 0.005") (8X)	PIN GAGE	MFG QA		J-667	.182 GO - .192 NOGO	445-J.PU 10-03-05	591-C.P 10-03-05	A
1* (60)	D6	0.094 +/- 0.005 (8X)	DEPTH MICROMET	MFG QA		P-3751	RANGE .091 - .093	445-J.PU 10-03-05	591-C.P 10-03-05	A
1* (70)	D6	DIA. 0.343 +/- 0.005" (8X)	PIN GAGE	MFG QA		J-667	.338 GO - .348 N OGO	445-J.PU 10-03-05	591-C.P 10-03-05	A
1* (80)	D6	⊕ ∅0.012 A B C - D (8X)	MACHINE INDICATOR	MFG QA		571 P-3749	RANGE .0014 - .0027	445-J.PU 10-03-05	591-C.P 10-03-05	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-057-1B - Item: 403

Workorder: 65678/9-0 Sub:150 Op:30

Part: SE122-057-1B - PORT 4B SEAL RETAINER -

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1270	LESS THAN 1.02	503-B.H		
(10)		Magnetic Permeability 1.02 Max						11-15-05		

A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-057-1B - Item: 404

Workorder: 65678/9-0 Sub:293 Op:10

Part: SE122-057-1B - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-057 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	F3	0.149 +0/-0.008"	OD MICROMETER	MFG QA		P-4957	.144-.146	274-M. 10-25-05	591-C.P 10-25-05	

A

Quality Assurance Documentation for Part ID: SE122-072-1 - Item: 405

Workorder: 65678/9-0 Sub:82 Op:20

Part: SE122-072-1 - PORT NB FLANGE - SE120-004-8 / SE122-072-1 PORT NB FLANGE

Drawing ID: SE122-072 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G8	R3.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH	R 3.536	854-R.U 01-10-06		A
1* (20)	G7	R3.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH	R 3.536	854-R.U 01-10-06		A
1* (30)	G7	2.75 +/- 0.01" CONSTANT	CALIPER	MFG		P-3738	2.751 - 2.753	445-J.PU 10-13-05	854-R.U 01-10-06	A
1* (40)	F7	R5.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH	R 5.532	854-R.U 01-10-06		A
1* (60)	E8	R3.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH.	R 3.538	854-R.U 01-10-06		A
1* (70)	E7	R3.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH.	R 3.531	854-R.U 01-10-06	854-R.U 10-19-05	A
1* (80)		125 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1258	120	854-R.U 01-10-06	854-R.U 10-19-05	A
1* (90)	F8	R5.53 +/- 0.01"	INDICATOR	QA		J-1246 MACH.	R 5.536	854-R.U 01-10-06		A

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

Sales Order No Reference Commande Bestellungs Nr 438174001-0	Date Entered Date De Commande Bestelldatum 04/06/05	Customer Reference Reference Client Kundenbestelldaten 1525 REMAKE	Report No. Rapport No. Zeugnis Nr 20050921020	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

FILE COPY 2
Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift HIGH TEMP METALS INC 12910 SAN FERNANDO RD SYLMAR CA 91342 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
--	---

Product Description • Description Produit • Material Beschreibung 1.520 x 60 x 160 NSP 5822 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100
--

Specification • Specification • Spezifikation AMS 5599, F; AMS 5666, E; ASME-SB-443, 04, UNS# N06625, Gr. 1; ASME-SB-446, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; RR9000:SABRe; MR0175-2002, ORG	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
---	--	--

Heat Number Noms De Caudes Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cr+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6861	0.18		0.026	3.49	0.2484	21.98		4.1913	0.2984	8.67	59.93	0.006	0.003	0.13	0.276			BUTT END *01
2650 5 6861	3.4866	<0.05																BUTT END *01

Certified By • Certifie Par • Bescheinigt Durch: Penny Powell
Certification Technician

9/21/2005

Penny E. Powell



OCT 06 2005

*Rec'd 100957
MB 06/05
Line 2*

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

MC112435.TIF1

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Sales Order No Reference Commande Bestellungs Nr 438174001-0	Date Entered Date De Commande Bestelldatum 04/06/05	Customer Reference Reference Client Kundenbestelldaten 1525 REMAKE	Report No. Rapport No Zeugnis Nr 20050921020	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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**HAYNES
International**

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift HIGH TEMP METALS INC 12910 SAN FERNANDO RD SYLMAR CA 91342 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 1.520 x 60 x 160 NSP 5822 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100
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Specification • Specification • Spezifikation AMS 5599, F; AMS 5666, E; ASME-SB-443, 04, UNS# N06625, Gr. 1; ASME-SB-446, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; RR9000:SABRe; MR0175-2002, ORG	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bel Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hie. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch						
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp.	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp.	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA	% RA
128000 PSI 126000 PSI	(L) (T)	75000 PSI 76000 PSI	45 % 44 %	57 % 52 %	(1)(A) (1)(A)													

Certified By • Certifie Par • Bescheinigt Durch: Penny Powell
Certification Technician

9/21/2005

(1) 2743817491

Penny E. Powell



OCT 06 2005

MC112435.TIF2

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

FILE COPY 2

Sales Order No Reference Commande Bestellungs Nr 438174001-0	Date Entered Date De Commande Bestelldatum 04/06/05	Customer Reference Reference Client Kundenbestelldaten 1525 REMAKE	Report No. Rapport No Zeugnis Nr 20050921020	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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HAYNES
International

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellanschrift HIGH TEMP METALS INC 12910 SAN FERNANDO RD SYLMAR CA 91342 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
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Product Description • Description Produit • Material Beschreibung 1.520 x 60 x 160 NSP 5822 HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E, S1000 1/3/2005, EN 10204 3.1, AS9100
--

Specification • Specification • Spezifikation AMS 5599, F; AMS 5666, E; ASME-SB-443, 04, UNS# N06625, Gr. 1; ASME-SB-446, 04, UNS# N06625, Gr. 1; ASTM-B-443, 00e1, UNS# N06625, Gr. 1; RR9000:SABRe; MR0175-2002, ORG	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
---	---	--

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE UNITED STATES.
This material was melted and manufactured in the United States.
No welding performed on this material.
Mill Orders Used: 2743817491 (1 PC)
(A) 1750 °F to 1900 °F

Certified By • Certifie Par • Bescheinigt Durch: Penny Powell
Certification Technician

9/21/2005

Penny E. Powell



OCT 06 2005

MC112435.TIF4

30516-1198



Allegheny Ludlum Jessop Plate Products Division
An Allegheny Technologies Company

500 Green Street CERTIFIED MATERIAL TEST REPORT
Washington, Pennsylvania 15301

Bill to:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

Shipto:
PLATE PROD DIV / A-L
1201 VALLEY ROAD
COATESVILLE PA

19320

19320

PHIL CLADITIS
Quality Assurance Representa

Memo No: 260311-00

Our Order no: RW4910400
Your Order No: M E M G
Date: 09/03/2004
DUAL CERT

ALC 316/316L STAINLESS HRAP
ASTM A240-04a ASME SA-240-01 ASTM A480-02 ASME SA-480-01
AMS 5507F (316L) AMS 5524K (316) ASTM A666-03 COND A CHEM/PHYS TO
ASTM A312-02 ASME SA-312-01 ASTM A479-02 ASME SA-479-01 ASTM A262-02
PRACTICE E SCREEN PRAC A

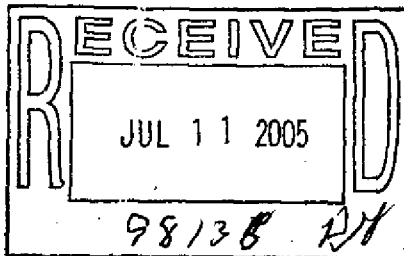
Heat	Slip	Lot No	Size	Pcs	Weight
818102	34967 A	143182	1.5000 x 83.0000 x 260.0000	1	9488 GV-STOCK

Heat	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
818102	.018	1.57	.027	.0004	.31	10.14	16.38	2.10	.25	.37	.069

Lot No	Gauge	Yield Strength	Tensile Strength	Elong	Red. of Area	Hardness	Bend	Corrosion	Grain Siz
143182	1.5000	33.9 KSI	81.5 KSI	61.0	81.0	BHN146		OK	

MATERIAL WAS NOT WELD REPAIRED
MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL WAS SOLUTION ANNEALED (HEAT TREATED) ABOVE 1900F AND WATER QUENCHED
DIN 50049 3.1.B AND EN 10204 3.1.B CERTIFICATE
MATERIAL IS OF USA MELT AND MANUFACTURE

JUL 11 2005



TRACER# 109293

98138 RH
lines ~~17-24~~
13-18

98142
lines 25-30

ROLLED AND LOYS QUALITY ASSURANCE
APPROVED M. Rain
DATE: 9/23/04

PAGE 1 FINAL PAGE

EXCEPT AS OTHERWISE NOTED, THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATIONS AND RESULTS CONFORM TO THE SPECIFICATION AND ORDER REQUIREMENTS. THE ABOVE INFORMATION HAS BEEN REPRODUCED FROM THE ORIGINAL CERTIFIED MATERIAL TEST REPORT.

ORIGINAL



Allegheny Ludlum Jessop Plate Products Division
An Allegheny Technologies Company

1201 Valley Road
Coatesville, Pennsylvania 19320

Our Order no: GU-098284
Your Order No: J06587
Memo No: 4261130-00
Date: 09/15/2004
516

Bill to:
ROLLED ALLOYS INC
125 W STERNS RD
P O BOX 310
TEMPERANCE MI

48182

Ship to:
ROLLED ALLOYS INC
9818 EAST HARDY ROAD
HOUSTON TX

77093

Robert Campagna
Quality Assurance Representat:

ALC T-316/316L DUAL CERT HRAP STAINLESS
ASTM A240-02 ASME SA240-01
79" WIDE ROUGHING MILL EDGE PLATE

Item	Grade	Heat No	Slip	Size	Weight	Mill Cert	Ord
001	316L			1.5000 79.0000 WID 235.0000 LEN	1	LBS	
				PN:530034299001			
		818102	34967 A	1.5000 79.0000 235.0000	1	8166 260311-00	Shi
				ITEM TOTAL:	1	8166	
				TOTAL ORDER:	1	8166	



JUL 11 2005



TRACER# 109293

CMTR (MANUFACTURER)
 ULTRASONIC REPORT
 OTHER

THE MATERIAL LISTED ABOVE IS SUPPLIED IN ACCORDANCE WITH THE ABOVE LISTED SPECIFICATIONS BASED ON THE REVIEW OF THE MATERIAL MANUFACTURER'S CERTIFIED MATERIAL TEST REPORT (ELECTRONICALLY EXCERPTED COPY ATTACHED) AND THE REQUIREMENTS OF THE PURCHASE ORDER.

ORIGINAL

Certificate: 272529 12 Mail To: Ship To: Date: 6/27/2005 Page: 1
Customer: 2830 001 ROLLED ALLOYS 125 W. STERNS RD. Steel: 316/316L
TEMPERANCE, MI 48182 125 W. STERNS RD. TEMPERANCE, MI 48182
Finish: HRAP

Your Order: T52927 NAS Order: AN 0320273 01 Corrosion: ASTM A262/02aE;180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/04a, 480/04a, 666/03, ASMESA240/04, SA480/04, SA666/04
(X GRAIN), QQS766D-A X MG PERM, AMS5507E/AMS5524J X MRK
UNS S31600 / UNS S31603

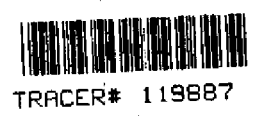
REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1.B QQS763F Cond A
* Melted & Manufactured in the USA
Minimum anneal temperature 1950 F
EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	Length	Mark	Pieces
0669R8 BA	* 0669R8 BA	1.5000	60.0000	3,850	PLATE 144.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MN	MO	N	NI	P	S	SI
69R8	.018	.241	16.857	.436	1.628	2.205	.050	10.114	.029	.001	.258



MECHANICAL PROPERTIES

Product ID #	Coil #	l d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB
0669R8 BA	0669R8	F T	81.63	39.09	64.30	76.50



NOV 30 2005

RECEIVED
NOV 30 2005
103016 JH
Line 1

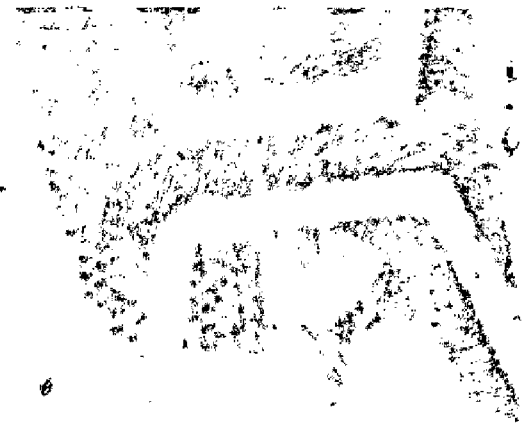
ROLLED ALLOYS QUALITY ASSURANCE
APPROVED *Don Reed*
DATE 6-28-05

QC ENGINEER *Eric Hess* 6/27/2005
ERIC HESS

MCI14108.TIF



ROLLED ALLOYS QUALITY ASSURANCE
125 W. STERNS RD. • P O BOX 310 • TEMPERANCE, MI 48182
PHONE 734-847-0561 • 800-521-0332 • FAX 313-847-3915



CERTIFICATE OF CONFORMANCE

DATE 11/23/2005

YOUR PO# P05-06457

OUR ORDER # W53426

The material furnished by Rolled Alloys on the above referenced purchase order and as represented by the mill test report meets the requirements of the specification and the purchase order.

Alex Briceno
Alex Briceno
Rolled Alloys, Inc.,
Quality Assurance Technician



NOV 30 2005

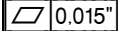
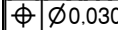
HIGH QUALITY STANDARDS ARE SUPPORTED BY OUR ISO 9001:2000/AS9100 Rev A CERTIFICATION

**ISO 9001:2000
AS9100 Rev A
REGISTERED
C O M P A N Y**

Quality Assurance Documentation for Part ID: SE122-104-1A - Item: 410

Workorder: 65678/9-0 Sub:294 Op:20

Part: SE122-104-1A - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-104 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C8	 0.015" DATUM -A- FLATNESS	OD MICROMETER	MFG QA		P-4958	WITHIN .010	274-M. 01-26-06	591-C.P 01-26-06	A
1* (20)	G5	 0.030 A B C-D 0.531 +/-0.005" THRU (32X)	PIN GAGE	MFG QA		J-669	.531	274-M. 01-26-06	591-C.P 01-26-06	A
1* (30)	G7	9.80 +/- 0.01" (2X)	INDICATOR PIN GAGE	MFG QA		P-4964 J-667	9.8	274-M. 01-26-06	591-C.P 01-26-06	A
1* (40)	F8	R 4.69 +/- 0.01"		MFG QA		TEMPLATE	4.690	274-M. 01-26-06	591-C.P 01-26-06	A
1* (50)	F5	20 DEG. +/- 0 DEG. 15 MIN.	INDICATOR	MFG QA		P-4964 ROTAB	20 DEG.	274-M. 01-26-06	591-C.P 01-26-06	A
1* (60)	F5	R 7.38 +/- 0.01"		MFG QA		TEMPLATE	7.38	274-M. 01-26-06	591-C.P 01-26-06	A
1* (80)	G4	1.25 +/- 0.01"	OD MICROMETER	MFG QA		P-4958	1.258	274-M. 01-26-06	591-C.P 01-26-06	A
1* (90)	G3	0.63 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	.625	274-M. 01-26-06	591-C.P 01-26-06	A
1* (100)	G3	DIA. 0.25 +/- 0.01" X 1.50 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	.25 X 1.5	274-M. 01-26-06	591-C.P 01-26-06	A
1* (110)	F3	1.34 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	1.34	274-M. 01-26-06	591-C.P 01-26-06	A
1* (120)	G4	1/8" NPT	THREAD PLUG GA	MFG QA		A-220	1-8 NPT	274-M. 01-26-06	591-C.P 01-26-06	A
1* (130)	F3	DIA. 0.125 +/- 0.01" THRU TO 0.25 DIA (2X)	PIN GAGE	MFG QA		J-667	.125	274-M. 01-26-06	591-C.P 01-26-06	A

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-104-1A - Item: 411

Workorder: 65678/9-0 Sub:294 Op:22

Part: SE122-104-1A - REWORK / REPAIR PER N/C - N/C # _____

Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1270	GREATER THAN 1.2 A D LESS THAN 1.4 (AC CEPT PER N.C. 17167)	854-R.U		
(10)		Magnetic Permeability 1.02 Max						08-19-06		

Quality Assurance Documentation for Part ID: SE122-104-1A - Item: 412

Workorder: 65678/9-0 Sub:294 Op:50

Part: SE122-104-1A - REWORK / REPAIR PER N/C - N/C # _____

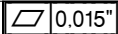
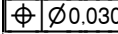
Drawing ID: SE122-019 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
*			MASTER GAGE	QA		J-1165	>1.3 AND <1.4 (ACCE PT PER N.C. 17167)	854-R.U 08-19-06		
(10)		Magnetic Permeability 1.02 Max								

A

Quality Assurance Documentation for Part ID: SE122-104-1B - Item: 413

Workorder: 65678/9-0 Sub:117 Op:20

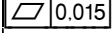
Part: SE122-104-1B - NCSX VVSA PORT 12B COVER ASSEMBLY - SE120-004-4 / SE122-104-1B NCSX VVSA PORT 12B COVER ASSEMBLY

Drawing ID: SE122-104 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C8	 0.015" DATUM -A- FLATNESS	CMM	MFG QA		00064	0.0012	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (20)	G5	 0.030 A B C-D 0.531 +/-0.005" THRU (32X)	CMM	MFG QA		00064	.531-.533,0.014	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (30)	G7	9.80 +/- 0.01" (2X)	INDICATOR	MFG QA		P-4469	9.8	274-M. 12-15-05	591-C.P 12-15-05	A
1* (40)	F8	R 4.69 +/- 0.01"	CMM	MFG QA		00064	4.687	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (50)	F5	20 DEG. +/- 0 DEG. 15 MIN.	CMM	MFG QA		00064	19.994	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (60)	F5	R 7.38 +/- 0.01"	CMM	MFG QA		00064	7.374	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (80)	G4	1.25 +/- 0.01"	INDICATOR	MFG QA		P-1170	1.251-1.255	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (90)	G3	0.63 +/- 0.01" (2X)	INDICATOR	MFG QA		P-3749	.63	274-M. 12-15-05	591-C.P 12-15-05	A
1* (100)	G3	DIA. 0.25 +/- 0.01" X 1.50 +/- 0.01" (2X)	PIN GAGE	MFG QA		J-667	GOOD	274-M. 12-15-05	591-C.P 12-15-05	A
1* (110)	F3	1.34 +/- 0.01" (2X)	CALIPER	MFG QA		J-707	1.345	212-J.LE 09-09-05	212-J.LE 09-09-05	A
1* (120)	G4	1/8" NPT	THREAD PLUG GA	MFG QA		A-220	GOOD	274-M. 12-15-05	591-C.P 12-15-05	A
1* (130)	F3	DIA. 0.125 +/- 0.01" THRU TO 0.25 DIA (2X)	CMM	MFG QA		00064	ACCEPT	212-J.LE 09-09-05	212-J.LE 09-09-05	A

Quality Assurance Documentation for Part ID: SE122-104-1B - Item: 414

Workorder: 65678/9-0 Sub:117 Op:50

Part: SE122-104-1B - NCSX VVSA PORT 12B COVER ASSEMBLY - SE120-004-4 / SE122-104-1B NCSX VVSA PORT 12B COVER ASSEMBLY

Drawing ID: SE122-172 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	C7	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	10-12	854-R.U 01-16-06			A
Drawing ID: SE122-104 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
* (20)		Magnetic Permeability 1.02 MAX	MASTER GAGE	QA		J-1270	>1.04 BUT <1.05 (AC CEPT PER NC 17157)	854-R.U 08-19-06			A
* (30)		 0.015 Datum -A- Flatness	HEIGHT GAGE INDICATOR	QA		J-55 J-622	.008	854-R.U 01-16-06			A



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 266390 01
Customer: 2830 004

Mail To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Ship To:
ROLLED ALLOYS
9818 EAST HARDY ROAD
HOUSTON, TX 77093

Date: 5/05/2005 Page: 1

Steel: 316/316L

Finish: HRAP

Corrosion: ASTM A262/C2ax;180Bend-0x

Your Order: J07342

NAS Order: AN 0316945 01

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HOT ROLLED, ANNEALED AND PICKLED.
ASTMA240/04a, 480/04a, 666/03, ASME SA240/04, SA480/04, SA666/04
(X GRAIN), Q08766D-A X MG PERM, AMS5507E/AMS5524J X MFR
UNS S31600 / UNS S31603

REMARKS:

Material free from mercury contamination. No weld repairs.
EN 10204 3.1.B Q08763F Cond A
* Melted & Manufactured in the USA
Minimum anneal temperature 1950 F
EN 10204 3.1.B/DIN 50049

Product ID #	Coil #	Thickness	Width	Weight	-----Length-----	Mark	Pieces
0565X9 BB	* 0565X9 BB	1.5000	60.0000	6,260	PLATE 240.00	1	1

CHEMICAL ANALYSIS

Heat	C	CO	CR	CU	MB	MO	N	NI	P	S	SI
65X9	.018	.211	16.770	.458	1.623	2.114	.048	10.233	.032	.002	.290

MECHANICAL PROPERTIES

Product ID #	Coil #	Id	UTS	.2% YS	ELONG	Hard
		o i	KSI	RSI	%-2"	RB
		c r				
0565X9 BB	0565X9	F T	77.15	40.05	66.00	81.00



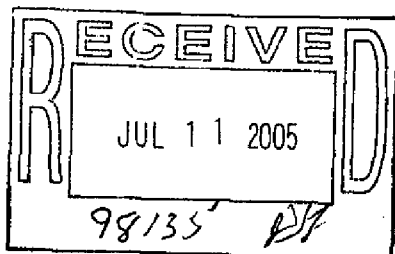
TRACER# 118248

ROLLED ALLOYS QUALITY ASSURANCE
APPROVED *M. Raw*
DATE 5/18/05

QC ENGINEER *E.H.*

ERIC HESS

5/05/2005



Lines 19-24

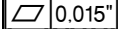
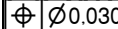


JUL 11 2005

Quality Assurance Documentation for Part ID: SE122-149-1A - Item: 416

Workorder: 65678/9-0 Sub:128 Op:20

Part: SE122-149-1A - PORT 4A COVER PLATE ASSEMBLY - SE120-004-7 / SE122-149-1A PORT 4A COVER PLATE ASSEMBLY

Drawing ID: SE122-149 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	D5	 0.015" DATUM -A- FLATNESS	INDICATOR MACHINE	MFG QA		P-3749 570	WITHIN - .007	445-J.PU 12-02-05	591-C.P 12-02-05	A
1* (20)	F5	 0.030 A B C 0.531 +/-0.005" THRU (60X)	PIN GAGE	MFG QA		J-669	.531	274-M. 01-23-06	591-C.P 01-23-06	A
1* (30)	G7	6.50 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	6.5	274-M. 01-23-06	591-C.P 01-23-06	A
1* (40)	D8	R 7.00 +/- 0.01" (4X)		MFG QA		TEMPLATE	7.0	274-M. 01-23-06	591-C.P 01-23-06	A
1* (50)	E8	40.00 +/- 0.01"	MACHINE	MFG QA		EDGE FINDER 570	40.002	445-J.PU 12-02-05	591-C.P 12-02-05	A
1* (60)	C7	29.00 +/- 0.01"	MACHINE	MFG QA		EDGE FINDER 570	29.005	445-J.PU 12-02-05	591-C.P 12-02-05	A
1* (80)	F5	1.25 +/- 0.01"	OD MICROMETER	MFG QA		P-3744	1.243 - 1.253	445-J.PU 12-02-05	591-C.P 12-02-05	A
1* (90)	F5	0.63 +/- 0.01"	CALIPER	MFG QA		P-3736	.626	274-M. 01-23-06	591-C.P 01-23-06	A
1* (100)	C4	DIA. 0.25 +/- 0.01" X 1.75 +/- 0.01" (2X)	PIN GAGE CALIPER	MFG QA		J-667 P-3736	.25 X 1.75	274-M. 01-23-06	591-C.P 01-23-06	A
1* (110)	B4	1.66 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	1.66	274-M. 01-23-06	591-C.P 01-23-06	A
1* (120)	C4	1/8" NPT (2X)	THREAD PLUG GA	MFG QA		A-220	1-8 NPT	274-M. 01-23-06	591-C.P 01-23-06	A
1*	B5	DIA. 0.125 +/- 0.01" THRU TO 0.25 DIA	PIN GAGE	MFG		J-667	.125	274-M.	591-C.P	A

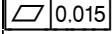
INSPECTION DATA CHECKLIST

(130)		(2X)		QA				01-23-06	01-23-06	
1*	H7	.750-10 UNC 1.00 MIN DP. BOTH ENDS	THREAD PLUG GA	MFG		A-232	.750-10	274-M.	591-C.P	A
(140)		(4X)		QA				01-23-06	01-23-06	

Quality Assurance Documentation for Part ID: SE122-149-1A - Item: 417

Workorder: 65678/9-0 Sub:128 Op:50

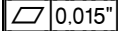
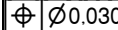
Part: SE122-149-1A - PORT 4A COVER PLATE ASSEMBLY - SE120-004-7 / SE122-149-1A PORT 4A COVER PLATE ASSEMBLY

Drawing ID: SE122-172 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	C7	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4 TO 6	503-B.H 01-30-06			A
Drawing ID: SE122-104 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
* (20)		Magnetic Permeability 1.02 MAX	MASTER GAGE	QA		J-1270	BETWEEN 1.1 AND1.15 (ACCEPT PER N.C. 1 7167)	854-R.U 08-19-06			A
* (30)		 0.015 Datum -A- Flatness	INDICATOR	QA		P-2063	.005	503-B.H 01-30-06			A

Quality Assurance Documentation for Part ID: SE122-149-1B - Item: 419

Workorder: 65678/9-0 Sub:147 Op:20

Part: SE122-149-1B - PORT 4B COVER PLATE ASSEMBLY -

Drawing ID: SE122-149 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	D5	 0.015" DATUM -A- FLATNESS	MACHINE INDICATOR	MFG QA		570 P-4760	WITHIN - .010	445-J.PU 12-05-05	591-C.P 12-05-05	A
1* (20)	F5	 0.030 A B C 0.531 +/-0.005" THRU (60X)	PIN GAGE	MFG QA		J-669	.531	274-M. 01-23-06	591-C.P 01-23-06	A
1* (30)	G7	6.50 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	6.5	274-M. 01-23-06	591-C.P 01-23-06	A
1* (40)	D8	R 7.00 +/- 0.01" (4X)		MFG QA		TEMPLATE	7.0	274-M. 01-23-06	591-C.P 01-23-06	A
1* (50)	E8	40.00 +/- 0.01"	CALIPER	MFG QA		J-1297	40.002	445-J.PU 12-05-05	591-C.P 12-05-05	A
1* (60)	C7	29.00 +/- 0.01"	CALIPER	MFG QA		J-1297	29.008	445-J.PU 12-05-05	591-C.P 12-05-05	A
1* (80)	F5	1.25 +/- 0.01"	OD MICROMETER	MFG QA		P-3744	1.232 - 1.247 (ACCE PT PER N.C. 18787)	854-R.U 08-19-06	591-C.P 01-23-06	A
1* (90)	F5	0.63 +/- 0.01"	CALIPER	MFG QA		P-3736	.625	274-M. 01-23-06	591-C.P 01-23-06	A
1* (100)	C4	DIA. 0.25 +/- 0.01" X 1.75 +/- 0.01" (2X)	PIN GAGE CALIPER	MFG QA		J-667 P-3736	.25X1.75	274-M. 01-23-06	591-C.P 01-23-06	A
1* (110)	B4	1.66 +/- 0.01" (2X)	CALIPER	MFG QA		P-3736	1.66	274-M. 01-23-06	591-C.P 01-23-06	A
1* (120)	C4	1/8" NPT (2X)	THREAD PLUG GA	MFG QA		A-220	1-8 NPT	274-M. 01-23-06	591-C.P 01-23-06	A
1*	B5	DIA. 0.125 +/- 0.01" THRU TO 0.25 DIA	PIN GAGE	MFG		J-667	.125	274-M.	591-C.P	A

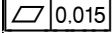
INSPECTION DATA CHECKLIST

(130)	(2X)		QA				01-23-06	01-23-06	
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Quality Assurance Documentation for Part ID: SE122-149-1B - Item: 420

Workorder: 65678/9-0 Sub:147 Op:50

Part: SE122-149-1B - PORT 4B COVER PLATE ASSEMBLY -

Drawing ID: SE122-172 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	C7	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-1152	4-8	522-R.D 01-30-06			A
Drawing ID: SE122-104 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
* (20)		Magnetic Permeability 1.02 MAX	UT CAL BLOCK	QA		J-1156	LESS THAN 1.1 BUT MORE THAN 1.05 (ACCEPT PER NC 17157) [N/C:19161-Doc:19161]	854-R.U 08-19-06			A
* (30)		 0.015 Datum -A- Flatness	INDICATOR	QA		P-4369	0.015	522-R.D 01-30-06			A



Allegheny Ludlum
An Allegheny Technologies Company

Jessop Speciality Products
500 Green Street
Washington, PA 15301

CERTIFIED MATERIAL
TEST REPORT

OUR ORDER NO.
YOUR ORDER NO.
MEMO NO.
DATE
SALESMAN NO.

QP1066210
1606
270107-00
03/08/2005
505

6610

Bill HIGH TEMP METALS
To 12910 SAN FERNANDO RD
SYLMAR CA

ATI WEST
8570 MERCURY LANE
PICO RIVERA CA

91342

90669

P. M. Claditis
P. M. Claditis - Product Quality Engineer

JESSOP UNS N06625 ALLOY HRAP
AMS 5599F ASTM B443-01 GRADE 1 ASME SB-443-01 GRADE 1
CHEMISTRY & PROPERTIES TO AMS 5666E ASME SB-446-01 & ASTM B446-02
S400E S1000E NADCAP APPROVAL

Heat	Slip	Lot No	Size	Pcs	Weight
S11857L04	08044 A	150387	1.7700 x 48.0000 x 163.0000	1	4300

Heat	C	MN	P	S	SI	NI	CR	MO	CO	CU	TI	CB	N	AL	FE
S11857L04	.079 /	.13 /	.012 /	.0002 /	.20 /	60.49 /	20.89 /	8.99 /	.16 /	.063	.18 /	3.53 /	.012	.15 /	4.64 /

Heat	TA
S11857L04	.020 /

Lot No	Gauge	Yield Strength	Tensile Strength	Elong	Red. of Area	Hardness	Bend	Corrosion	Grain Size
150387	1.7700	69.5 KSI	124.0 KSI	42.0 /	36.0	BHN217			7 /

MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL WAS NOT WELD REPAIRED
NADCAP CERT #106684 ALLEGHENY LUDLUM BRACKENRIDGE, PA EXPIRES APRIL 30, 2005
DIN 50049 3.1.B AND EN 10204 3.1.B CERTIFICATE
MATERIAL IS OF USA MELT AND MANUFACTURE

RECEIVED
JUL 23 2005
98632 D/A

JUL 27 2005 *line 4*

WITH 017

PAGE 1 FINAL PAGE

EXCEPT AS OTHERWISE NOTED, THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATIONS AND RESULTS CONFORM TO THE SPECIFICATION AND ORDER REQUIREMENTS.

MCI10168.TIF



Allegheny Ludlum
An Allegheny Technologies Company

Jessop Specialty Products
500 Green Street
Washington, PA 15301

CERTIFIED MATERIAL
TEST REPORT

OUR ORDER NO. 8F206210
YOUR ORDER NO. 1606
MEMO NO. 070107-00
DATE 03/08/2005
SALESMAN NO. 1505

6610

Bill HIGH TEMP METALS
To 12910 SAN FERNANDO RD
SYLMAR CA

ATI WEST
8570 MERCURY LANE
PICO RIVERA CA

91342

90569

P. M. Claditis
P. M. Claditis - Product Quality Engineer

JESSOP UNS N06625 ALLOY HRAP
AMS 5599F ASTM B443-01 GRADE 1 ASME SB-443-01 GRADE 1
CHEMISTRY & PROPERTIES TO AMS 5666E ASME SB-446-01 & ASTM B446-02
S400E S1000E NADCAP APPROVAL

Heat	Slip	Lot No	Size	Pcs	Weight
S11857L04	08044 A	150387	1.7700 x 48.0000 x 163.0000	1	4300

Heat	C	MN	P	S	SI	NI	CR	MO	CO	CU	TI	CB	N	AL	FE
S11857L04	.079	.13	.012	.0002	.20	60.49	20.89	8.99	.16	.063	.18	3.53	.012	.15	4.64

Heat	TA
S11857L04	.020

Lot No	Gauge	Yield Strength	Tensile Strength	Elong	Red. of Area	Hardness	Bend	Corrosion	Grain Size
150387	1.7700	69.5 KSI	124.0 KSI	42.0	36.0	BHN217			7

MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL WAS NOT WELD REPAIRED
NADCAP CERT #106684 ALLEGHENY LUDLUM BRACKENRIDGE, PA EXPIRES APRIL 30, 2005
DIN 50049 3.1.B AND EN 10204 3.1.B CERTIFICATE
MATERIAL IS OF USA MELT AND MANUFACTURE

PAGE 1 FINAL PAGE

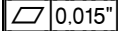




EXCEPT AS OTHERWISE NOTED, THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATIONS AND RESULTS CONFORM TO THE SPECIFICATION AND ORDER REQUIREMENTS.

MCI10168.TIF2

Quality Assurance Documentation for Part ID: SE122-172-1 - Item: 422

Workorder: 65678/9-0 Sub:84 Op:20

Part: SE122-172-1 - PORT NB COVER - SE120-004-10 / SE122-172-1 PORT NB COVER

Drawing ID: SE122-172 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	G8	 0.015" DATUM -D- FLATNESS	INDICATOR	MFG QA		P-3873	.002	688-S.A 10-07-05	591-C.P 12-09-05	A
1* (20)	G3	 0.015"  D B A 0.50-20 UNF X 0.75 MIN DEPTH (34X)	THREAD PLUG GA	MFG QA		A-271	GOOD	274-M. 12-08-05	591-C.P 12-09-05	A
1* (30)	G2	 0.012"  D B A #8-32 UNC-2B X 0.25" MIN THREAD DEP (8X)	THREAD PLUG GA	MFG QA		A-112	GOOD	274-M. 12-08-05	591-C.P 12-09-05	A

Quality Assurance Documentation for Part ID: SE122-172-1 - Item: 423

Workorder: 65678/9-0 Sub:84 Op:50

Part: SE122-172-1 - PORT NB COVER - SE120-004-10 / SE122-172-1 PORT NB COVER

Drawing ID: SE122-172 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C7	0.941 +/- 0.010"	CALIPER	QA		J-1099	.943	854-R.U 12-28-05		A
1* (20)	C7	R.005 MIN. (2X)	RADIUS GAGE	QA		R-24	> .005 (2X)	854-R.U 12-28-05		A
1* (30)	C7	0.25 +/- 0.010"	CALIPER	QA		J-1099	.258	854-R.U 12-28-05		A
1* (40)	C7	.153 + 0 / - 0.003"	CALIPER	QA		J-1099	.152	854-R.U 12-28-05		A
1* (50)	C7	R 0.030" (2X)	RADIUS GAGE	QA		R-24	.030 (2X)	854-R.U 12-28-05		A
1* (60)	C7	16 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	13	854-R.U 12-28-05		A
1* (70)	C7	63 MICRO-INCH RA SURFACE FINISH	PROFILOMETER	QA		J-825	38	854-R.U 12-28-05		A

Quality Assurance Documentation for Part ID: SE122-173-1 - Item: 424

Workorder: 65678/9-0 Sub:98 Op:20

Part: SE122-173-1 - PORT NB SEAL RETAINER - SE120-004-9 / SE122-173-1 PORT NB SEAL RETAINER (INCONEL 625 MATERIAL)

Drawing ID: SE122-173 Rev: 1			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	C6	0.149 + 0 / - 0.008"	OD MICROMETER	MFG QA		P-3743	.145 - .1485	445-J.PU 10-31-05	591-C.P 10-31-05	A
1* (20)	D6	0.541 +/- 0.010" (CONSTANT)	CALIPER	MFG QA		P-3738	.541 - .548	231-B.B 10-31-05	591-C.P 10-31-05	A
1* (30)		75.0 deg. +/- 0 deg. 15' (2X)		MFG QA		ZOLLER	74.934 DEG.	231-B.B 10-31-05	591-C.P 10-31-05	A
1* (40)	C7	63 MICRO-INCH SURFACE FINISH	PROFILOMETER	MFG QA		J-1181	14.4 - 16.2	445-J.PU 10-31-05	591-C.P 10-31-05	A
1* (50)	C6	63 MICRO-INCH SURFACE FINISH	PROFILOMETER	MFG QA		J-1181	14.6 - 16.2	445-J.PU 10-31-05	591-C.P 10-31-05	A
1* (60)	G5	<div style="border: 1px solid black; display: inline-block; padding: 2px;"> \varnothing .012 D A B </div> DIA. 0.187 +/- 0.005" THRU (8X) DIA .343 +/- .005" .094 DP OTHER SIDE		MFG QA		J-667-J-668-P-375 571-P-3749	.182 GO - .192 NGO .338 GO - .348 NO GO X .093 - .095 D P .0022 POS.	231-B.B 10-31-05	591-C.P 10-31-05	A

NOTE: THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTE.
EASTERN U.S.

FORM D

HUNTINGTON ALLOYS
A Special Metals Company
HUNTINGTON, WEST VIRGINIA 25720



ROLLED ALLOYS INC
125 W STERNS RD
TEMPERANCE MI 48182-0310

ROLLED ALLOYS INC
125 W STERNS RD
TEMPERANCE MI 48182-0310

CERTIFIED MATERIAL TEST REPORT No. **97210**

HA ORDER NO./ITEM 100023551 2	DATE 02/10/05	PAGE 1	OF 2
QUANTITY 3204 LBS	INSPECTED BY HA/SMC		
CHARGE ORDER NO. T50706	MARK ORDER NO. 138032599001-01		
DESCRIPTION OF MATERIAL SHIPPED	INCONEL ALLOY 625 HR PLATE DESCALED ANN .1875 IN 36.0000 IN 240.000 IN SHR		

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLINGS INSPECTIONS AND TESTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATION REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND TRUE. THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT THE BELOW FIGURES ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQUIREMENTS.

[Signature]
QUALITY CERTIFICATION REPRESENTATIVE

*****THIS REPORT RELATES ONLY TO THE ITEM(S) TESTED AND MAY NOT BE REPRODUCED EXCEPT IN FULL.*****

SPECIFICATIONS: SAE AMS 5599F\ASTM B 443-00 GRADE 1\ UNS: N06625
ASME SB-443 2004 EDITION NO ADDENDA GRADE 1\
GE S 400E\GE S-1000E\
ROLLS-ROYCE RR9000; SABRE ISSUE 006 PER ROLLS-ROYCE APPROVAL NO. 82960 DTD 30 OCT 1996.\
QUALITY SYSTEM CERTIFICATION: ISO 9001:2000 (ABS-QE CERT. 30125);
EN 10 204/DIN 50049 (CERT.3.1.B)

CHEMICAL ANALYSIS (WT. %)

HEAT#	C	MN	FE	S	SI	NI	CR	AL	TI
	CO	MO	NB	TA	P	NB+TA			
NX4533AG	0.02	0.10	3.67	<0.001	0.15	61.43	21.54	0.14	0.23
	0.08	9.17	3.46	<0.01	0.007	3.46			

MELT METHOD: AIR + ESB

MECHANICAL PROPERTIES

HEAT/LOT	QUANTITY	HARDNESS	GRAIN SIZE	YIELD STRENGTH	TENSILE STRENGTH	ELONGATION	R/A	DEGREE OF FINISH
				2XPSI	PSI	2"	X	F
NX4533AG 13	6 PCS							
ROOM TEMP-HRB	-AS SHIPPED	98.5		0840	1351	41.6		
P75260 (2) P75270 (2) P75280 (2)								
GRAIN SIZE-AS SHIPPED	AGS ASTM NO.		7.5					
NORMAL - TRAN								

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

COUNTRY OF ORIGIN AND MELT: UNITED STATES OF AMERICA

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.

TRACER# 114185

JUL 22 2005

RECEIVED

JUL 21 2005

98503 *[Signature]*

Line 1.3



MC110068.TIF1

NOTE: THE RECORDING OF FALSE FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTE.
EASTERN U.S.

FORM D

HUNTINGTON ALLOYS
A Special Metals Company
HUNTINGTON, WEST VIRGINIA 25720



CERTIFIED MATERIAL TEST REPORT No. **97210**

ROLLED ALLOYS INC
125 W STERNS RD
TEMPERANCE MI 48182-0310

HA ORDER NO./ITEM 100023551 2	DATE 02/10/05	PAGE 2	OF 2
QUANTITY 3204 LBS	INSPECTED BY HA/SMC		

ROLLED ALLOYS INC
125 W STERNS RD
TEMPERANCE MI 48182-0310

CHARGE ORDER NO. 750706	MARK ORDER NO. 138032599001-01
-----------------------------------	--

DESCRIPTION OF MATERIAL SHIPPED
**INCONEL ALLOY 625 HR PLATE DESCALED ANN
.1875 IN 36.0000 IN 240.000 IN SHR**

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLINGS INSPECTIONS AND TESTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATION REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND TRUE. THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT THE BELOW FIGURES ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQUIREMENTS.

[Signature]
QUALITY CERTIFICATION REPRESENTATIVE

MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE, & LOW MELTING ELEMENTS.

"CHEMICAL ANALYSIS AS REQUIRED FOR CARBON, SULFUR, NITROGEN OR OXYGEN IS PERFORMED BY COMBUSTION TECHNIQUES. ALL OTHER REPORTED ELEMENTS ARE ANALYZED BY X-RAY AND/OR EMISSION SPECTROSCOPY."

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES :
W.E. BOLEN, P.D. CUSTER, M.A. MORRISON, D.L. SMITH, P.P. WAUGH

CERTIFIED TESTING LABORATORY DATA SOURCE IALL
AEGG VENDOR NO. 47150
M.R.B. CASE RECORD NO.: NONE
AUTHORIZED VENDOR SIGNATURE *[Signature]*
DATE: 02/10/05



Certification of Conformance: We certify that the above material meets all requirements of the purchase order and material specifications.
125 W. STERNS RD TEMPERANCE, MI 48182

Customer : MAJOR TOOL & MACHINE
P.O.# P05-03069 TM
.149" GROUND SHEET 625
Tracer No. [114185]

Date 07/20/2005
Shpr-W40459
26- 7/16 X 32-33/64 3 PC
Heat No. [HX4533A6]
[Signature]

ROLLED ALLOYS QUALITY ASSURANCE
APPROVED *[Signature]*
DATE 2-11-05

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE122-174-1 - Item: 426

Workorder: 65678/9-0 Sub:280 Op:10

Part: SE122-174-1 - -

Drawing ID: SE122-174 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		Dia. 0.189 +/-0.005		QA		VISUAL	CUSTOMER SUPPLIED CCEPT	854-R.U 08-19-06		

A

Quality Assurance Documentation for Part ID: SE122-174-2 - Item: 427

Workorder: 65678/9-0 Sub:281 Op:10

Part: SE122-174-2 - -

Drawing ID: SE122-174 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)		Dia. 0.189 +/-0.005		QA		VISUAL	CUSTOMER SUPPLIED ATERIAL--ACCEPT	854-R.U 08-19-06		

A

Employees: 085-D.Gregory / 093-M.Stewart / 131-W.Allen / 184-T.Hicks / 197-T.Fischer / 212-J.Lehr / 231-B.Blankenberger / 234-E.Booher / 274-M.Moorman / 280-K.St. Henry / 307-D.Jett / 358-D.Mcnew / 445-J.Purkhiser / 503-B.Houk / 506-R.Liston / 509-S.Roberts / 522-R.Durham / 581-D.Edwards / 591-C.Pritchett / 601-K.Rowe / 683-K.Mcnew / 688-S.Atchison / 709-K.Appleby / 712-W.Miller / 733-J.Stone Ii / 763-R.Miethe / 771-B.Schultz / 791-D.Weidner / 837-J.Deverter / 840-G.Masood / 854-R.Upchurch / 933-D.Leapley



Welding Products Company
 1401 Burris Road
 Newton, NC 28658
 704-465-0352

Certified Material Test Report

No: 74817



QUALITY SYSTEMS

Date : 15-Dec-98

Purchase Order No: P9806221

Mark Order No:

Product Number: N625-035-30SS02

Description of Material: INCONEL Filler Metal 625 .035 x 30Spl

Certificate 3.1.B as in EN 10 204

Material Manufactured in accordance with a quality management system certified to ISO 9002 by ABS-QE (Certificate No. 30125)

**Chemical
 Analysis**
 (Wt. %)

Order Wt.

UNS #: N06625

Specifications:

ANSI AWS A 5.14M-97 Class ERNiCrMo-3

ASME SFA 5.14 1995 Edition 96 Addenda Class ERNiCrMo-3

Heat/Lot: VX3417AK

		Unit
Ni	64.66	%
Cr	21.67	%
Mo	8.94	%
NbTa	3.55	%
Fe	.58	%
Others <	.50	%
Al	.27	%
Ti	.21	%
Si	.05	%
Co	.04	%
C	.01	%
Mn	< .01	%
Cu	.01	%
P	.003	%
S	.001	%
Nb	.00	%

DEC 18
 28042

Visual and dimensional examination:

Satisfactory

Material, when shipped is free from contamination by mercury, radium, alpha source, and low melting point elements.

This is to certify that all required samplings, inspections and tests have been performed in accordance with the specification requirements. The test report represents the actual attributes of the material furnished and the values shown are correct and true. The material described by this certificate is in full compliance with all order and inspection requirements. We hereby certify that the above data are in accordance with the specification requirements.

B.G. Taylor

Authorized quality assurance representative: BJ Taylor

Quality Certification Representative

--The trademark and trade name 'INCO' or 'Inco' is owned by Inco Limited and is used by permission.
 The Inco Alloys International group of Companies and Inco Limited are unaffiliated and independent Companies--

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851



DATE 06/16/05

**ACTUAL
 CERTIFICATION OF TESTS**

GRADE 625
 LOT/ALLOY NO. XB8273
 HEAT NO. 112155
 SIZE .035"
 CLASS ERNICrMo-3
 SPECIFICATION AWS A5.14/A5.14M-97
ASME SFA 5.14, Section II, Part C

CHEMICAL ANALYSIS: ACTUAL WIRE

C	Mn	Si	S	P	Cr	Ni	Mo	Ta	Cb+Ta
0.03	0.05	0.06	0.001	0.01	22.3	64.2	9.1	0.01	3.56
	Ti	Al	Co	Cu	Fe		Total Others		
	0.21	0.14	0.05	0.00	0.3		< 50		

OK

Ferrite: N/A

UNS NO. N06625

Lot Classification - S1

Intensity of Testing - Schedule F

MATERIAL MADE IN THE USA.

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS

06.20.05
97307
line 1

APR 040
AKH

GIB GRATTI, QUALITY ASSURANCE MANAGER
QUALITY ASSURANCE DEPARTMENT

BRANFORD WIRE & MFG.
 P. O. BOX 677
 MOUNTAIN HOME, NC
 PHONE: 828-692-5791
 FAX#: 828-697-9818

CERTIFICATE OF COMPLIANCE / TEST REPORT

4/04/05

27117

BUYER: HAYNES INTERNATIONAL
 P. O. BOX 9013
 1020 WEST PARK AVE.
 KOKOMO, IN
 46904-9013

CUSTOMER P. O. NBR: 1429
 ORD/LN NBR: 025988/01
 CUSTOMER PART NBR: 326506200170000

PROD. DESC: WELDING / METALLIZING WIRE
 SIZE: .062X36"

TYPE: INC625
 QTY LBS: 652

SPECIFICATION
 AWSA5.14-97/ERNICRMQ-3

CHEMICAL ANALYSIS

HEAT NBR.	C	MN	P	S	SI	NI	CR	MO	CU
34932	10.016	0.030	0.004	0.0035	0.040	63.89	22.35	09.00	0.020

NB 3.45 OTHER ELEMENTS*0.1265


Y	TA	TI	NB	AL	N	CO	FE	W	V	B
103.45	0.230		10.080			10.760				

MECHANICAL PROPERTIES

TENSILE	YIELD	ELONGATION	HARDNESS	BREAK	ROA
LBS/SQ. INCH	LBS/SQ INCH	%			%
	HARD				

WRAP TEST	UNIFORM. TEST	MANDREL TEST	GRAIN SIZE	PERMEABILITY

OTHER TEST(S) AND/OR REQUIREMENTS:

411865
 95355
 W/A Line 6


(MATERIAL IS FREE OF MERCURY CONTAMINATION)

THIS IS TO CERTIFY THAT MATERIAL SHIPPED COMPLIES WITH SPECIFICATION ON P. O.

COUNTRY OF ORIGIN	I. C. REPRESENTATIVE	DATE SIGNED
USA	<i>Dayle Chang</i>	4/04/05

IF INITIALED AND DATED HERE _____ THIS IS AN AMENDED CERTIFICATION

ARCOS INDUSTRIES, LLC
 ONE ARCOS DRIVE
 Mt. Carmel, PA 17851

mc095279



DATE 12/19/03

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC. 1458 EAST 19TH STREET INDIANAPOLIS, IN 46218	SHIP TO: MAJOR TOOL & MACHINE 1452 EAST 19th Street Indianapolis, IN 46218
--	--

ARCOS S.O.	CUSTOMER ORDER NO.	CONSIGNEE ORDER NO.	DATE SHIPPED
79533	P03-05170	N/A	12/19/03
ITEM	SIZE	GRADE	LOT NO./ALLOY NO.
1	1/16 X 36"	ARCOS 625	AV8128
SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION. AND ALL PARAS AND ADDENDA THRU 2003.			
CHEMICAL ANALYSIS: WIRE			
C	Mn	Si	S
0.03	0.05	0.08	0.004
Ta	Ti	Al	Co
0.24	0.26	0.01	0.02
P	Cr	Ni	Mo
0.00	21.8	64.6	9.1
Cu	Fe	V	Total Others
0.02	0.1	<.50	3.77
Cb	Cb + Ta		

ADDITIONAL TEST RESULTS	TENSILE	As Welded	Heat Treated
Ferrite - NB2433.1-1: _____	Yield	_____	_____
Magna Gage: _____	Tensile	_____	_____
X-Ray: _____	Elongation	_____	_____
Bends: _____	Red. of Area	_____	_____
Hardness: _____			

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS

Q.A. MANAGER
 QUALITY ASSURANCE DEPARTMENT

12/23/03

81947
line 1

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851

mc094944.pdf



DATE 11/26/03

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.	CUSTOMER ORDER NO.	CONSIGNEE ORDER NO.	DATE SHIPPED
79388	P03-04749	N/A	11/26/03
ITEM	SIZE	GRADE	LOT NO./ALLOY NO.
1	1/16 X 36"	ARCOS 625	AB8051

SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3
 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION.
 AND ALL PARAS AND ADDENDA THRU 2002.

CHEMICAL ANALYSIS: WIRE									
C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.02	0.01	0.06	0.001	0.01	22.2	64.3	9.1		3.56
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.22	0.12	0.03	0.01	0.4		<.50		

ADDITIONAL TEST RESULTS	TENSILE	As Welded	Heat Treated
Ferrite - NB2433.1-1: _____	Yield	_____	_____
Magna Gage: _____	Tensile	_____	_____
X-Ray: _____	Elongation	_____	_____
Bends: _____	Red. of Area	_____	_____
Hardness: _____			

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS

Eileen Zerby Q.A. CLERK
 QUALITY ASSURANCE DEPARTMENT

81505
 Line 1
 R. 7

12/5/03

BRANFORD WIRE & MFG.
 P. O. BOX 677
 MOUNTAIN HOME, NC
 PHONE: 828-692-5791
 FAX#: 828-697-9818

CERTIFICATE OF COMPLIANCE / TEST REPORT

3/21/05

27038

BUYER: HAYNES INTERNATIONAL
 P. O. BOX 9013
 1020 WEST PARK AVE.
 KOKOMO, IN
 46904-9013

CUSTOMER P. O. NBR: 1423
 ORD/LN NBR: 025982/02
 CUSTOMER PART NBR: 326506200240000

PROD. DESC: WELDING / METALLIZING WIRE
 SIZE: .093X36"

TYPE: INC625
 QTY LBS: 550

SPECIFICATION
 AWSA5. 14-97/ERNICRMO-3

CHEMICAL ANALYSIS

HEAT NBR.	C	MN	P	S	SI	NI	CR	MO	CU
K48859	0.019	0.030	<.005	.0006	<.05	65.00	20.82	08.36	0.020

Y	TA	TI	NB	AL	N	CO	FE	W	V	B
0.020	0.019	0.03	0.43	0.22		0.13	0.91			

MECHANICAL PROPERTIES

TENSILE	YIELD	ELONGATION	HARDNESS	BREAK	RDA
LBS/SQ. INCH	LBS/SQ. INCH	%			%
	1/4HRD				

WRAP TEST	UNIFORM TEST	MANDREL TEST	GRAIN SIZE	PERMEABILITY

OTHER TEST(S) AND/OR REQUIREMENTS:

04.01.2005
 94843
 Line 1 50 turned

(MATERIAL IS FREE OF MERCURY CONTAMINATION)

THIS IS TO CERTIFY THAT MATERIAL SHIPPED COMPLIES WITH SPECIFICATION ON P. O.

COUNTRY OF ORIGIN	Q. REPRESENTATIVE	DATE SIGNED
GERMANY	<i>Dayle Chang</i>	3/21/05



IF INITIALED AND DATED HERE _____ THIS IS AN AMENDED CERTIFICATION

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851

MC094945



DATE 11/26/03

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.		CUSTOMER ORDER NO.		CONSIGNEE ORDER NO.		DATE SHIPPED	
79388		P03-04749		N/A		11/26/03	
ITEM	SIZE	GRADE		LOT NO./ALLOY NO.		QUANTITY	
2	3/32 X 36"	ALLOY 625		CV8061		30#	

SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3
 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION,
 AND ALL PARAS AND ADDENDA THRU 2002.

CHEMICAL ANALYSIS: WIRE

C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.03	0.02	0.13	0.004	0.00	21.5	64.6	9.0		3.75
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.29	0.24	0.02	0.11	0.2		<.50		

ADDITIONAL TEST RESULTS

Ferrite - NB2433.1-1: _____
 Magna Gage: _____
 X-Ray: _____
 Bends: _____
 Hardness: _____

TENSILE	As Welded	Heat Treated
Yield	_____	_____
Tensile	_____	_____
Elongation	_____	_____
Red. of Area	_____	_____

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS



12/5/03

Eileen Zerby
 Q.A. CLERK

QUALITY ASSURANCE DEPARTMENT

81506
 Line 2 R.I.

BRANFORD WIRE & MFG

NU 188 P 3

P O BOX 677
MOUNTAIN HOME, NC
PHONE 828-692-5791
FAX# 828-697-9818

CERTIFICATE OF COMPLIANCE / TEST REPORT

4/06/05

27133

BUYER HAYNES INTERNATIONAL
P O BOX 9013
1020 WEST PARK AVE
KOKOMO, IN
46904-9013

CUSTOMER P O NBR 1429
ORD/LN NBR 025988/02
CUSTOMER PART NBR 326504200240000

PROD DESC WELDING / METALLIZING WIRE
SIZE 093X36"

TYPE INC625
QTY LBS 772

SPECIFICATION
AWS A5.14-97/ERNICRMO-3

CHEMICAL ANALYSIS

HEAT NBR	C	MN	P	S	SI	NI	CR	MO	CU
K48859	10 019	0 030	< 005	0 006	< 0 05	145 00120	52108	36	0 020

Y	TA	TI	NE	AL	N	CO	FE	W	V	B
10 020	0 019	0 03 43	0 220			10 130	01 91			

MECHANICAL PROPERTIES

TENSILE	YIELD	ELONGATION	HARDNESS	BREAKING
(LBS/SQ INCH)	(LBS/SQ INCH)	%		(%)

WRAP TEST	UNIFORM TEST	MANDREL TEST	GRAIN SIZE	PERMEABILITY

OTHER TEST(S) AND/OR REQUIREMENTS

(MATERIAL IS FREE OF MERCURY CONTAMINATION)

THIS IS TO CERTIFY THAT MATERIAL SHIPPED COMPLIES WITH SPECIFICATION ON P 8

4/18/05
95358 Line 2 WA



COUNTRY OF ORIGIN
GERMANY

REPRESENTATIVE
[Signature]

DATE SIGNED
4/06/05

IF INITIALED AND DATED HERE THIS IS AN AMENDED CERTIFICATION

BRANFORD WIRE & MFG.
 P.O. BOX 677
 MOUNTAIN HOME, NC
 PHONE: 828-692-5791
 FAX#: 828-697-9818

CERTIFICATE OF COMPLIANCE / TEST REPORT

3/21/05

27038

BUYER: HAYNES INTERNATIONAL
 P.O. BOX 9013
 1020 WEST PARK AVE.
 KOKOMO, IN
 46904-9013

CUSTOMER P.O. NBR: 1423
 ORD/LN NBR: 025982/02
 CUSTOMER PART NBR: 326506200240000

PROD. DESC: WELDING / METALLIZING WIRE
 SIZE: .093X36"

TYPE: INC625
 QTY LBS: 550

SPECIFICATION
 AWSA5.14-97/ERNICRMQ-3

CHEMICAL ANALYSIS

HEAT NBR.	C	MN	P	S	SI	NI	CR	MO	CU
K48859	10.019	10.030	<.005	.0006	<.05	165.00	20.82	108.36	10.020

Y	TA	TI	NB	AL	N	CO	FE	W	V	B
10.020	10.019	103.43	10.220			10.130	101.91			

MECHANICAL PROPERTIES

TENSILE	YIELD	ELONGATION	HARDNESS	BREAK	ROA
LBS/SQ. INCH	LBS/SQ INCH	%			%
1/4HRD					

WRAP TEST	UNIFORM TEST	MANDREL TEST	GRAIN SIZE	PERMEABILITY

MAY 24 2005
 96405 Line 3 BJ

OTHER TEST(S) AND/OR REQUIREMENTS:

(MATERIAL IS FREE OF MERCURY CONTAMINATION)

THIS IS TO CERTIFY THAT MATERIAL SHIPPED COMPLIES WITH SPECIFICATION ON P.O.

COUNTRY OF ORIGIN
 GERMANY

Q. Q. REPRESENTATIVE
Dayle Chang

SK/lor


DATE SIGNED
 3/21/05

IF INITIALED AND DATED HERE

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-104-1 PORT 12 COVER

Drawing ID: SE122-072 Revision: 1

Customer P.O.: S005243-F/Ln:9
Serial No:9/294

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: PER B.P. MAGNETIC PERMEABILITY TO BE LESS THAN 1.02

PERMEABILITY ON PART CHECKS GREATER THAN 1.2 BUT LESS THAN 1.4

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____

Nonconformance Report: Major Tool NC19149

This is for / SE122-104-1 PORT 12 COVER

Problem:

PER B.P. MAGNETIC PERMEABILITY TO BE LESS THAN 1.02

PERMEABILITY ON PART CHECKS GREATER THAN 1.2 BUT LESS THAN 1.4

Doug McCorkle

Project Disposition:

Accept as is.

Approvals:

Mike Viola

Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.23 11:47:17 -05'00'

Procurement Technical Representative

Art Brooks

Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.23 13:37:55 -05'00'

Art Brooks, Technical Assurance

**Brad
Nelson**

Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.23 13:44:05
-05'00'

Responsible Line Manager:

**F.
Malinowski**

Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C = US,
O = PPPL, OU = QA
Reason: I have reviewed this document
Date: 2006.02.24 09:01:48 -05'00'

Project Quality Assurance:

Princeton University

Plasma Physics Laboratory
James Forrestal Campus
P.O. Box CN17
Princeton, N.J. 08543

14 February 2006

Ms. Teresa L. Hubbard
Major Tool & Machine, Inc.
1458 E. 19th Street
Indianapolis, IN 46218

SUBJECT: Dispositioned Non-Conformance Reports (NCRs) - Subcontract S005243-F for NCSX Vacuum Vessel Sub-Assemblies (VVSAs)

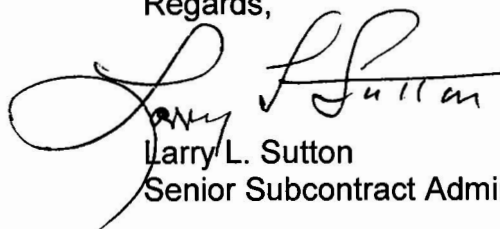
Dear Ms. Hubbard:

The following attached Major Tool & Machine Non-Conformance Reports (NCRs) have been dispositioned by the Princeton Technical Representative Mike Viola and the Responsible Line Manager Brad Nelson and are now Closed.

NCR #	Problem	Disposition
19060	Magnetic Permeability	"Accept as is" - Closed
19063	" " "	" " "
19142	" " "	" " "
19161	" " "	" " "
19164	" " "	" " "
19176	" " "	" " "

If there are any questions pertaining to this matter I may be contacted at (609) 243-2441 and by e-mail lsutton@pppl.gov.

Regards,



Larry L. Sutton
Senior Subcontract Administrator

Attachments: As Stated

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-049-1 PORT 4B FLANGE

Drawing ID: SE122-049 Revision: 1

Customer P.O.: S005243-F/Ln:7
Serial No: 7/9

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: PER B.P. MAG. PERM. TO BE LESS THAN 1.02
MATERIAL CHECKS GREATER THAN 1.05 BUT LESS THAN 1.1

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: 0

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ Date: _____

Buyer Approval: _____

Title: _____ Date: _____

Major Tool Implemented By: _____

Title: _____ Date: _____

Nonconformance Report: Major Tool NC19060

This is for SE122-049-1 PORT 4B FLANGE

Problem:

PER B.P. MAG. PERM. TO BE LESS THAN 1.02

MATERIAL CHECKS GREATER THAN 1.05 BUT LESS THAN 1.1

Project Disposition:

Accept as is

Approvals:

Mike Viola
Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 13:56:18 -05'00'

Procurement Technical Representative

Art Brooks
Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:45:57 -05'00'

Art Brooks, Technical Assurance

Brad Nelson
Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:36:10 -05'00'

Responsible Line Manager:

F. Malinowski
Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:16:41 -
05'00'

Project Quality Assurance:

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-104-1 PORT 12 COVER

Drawing ID: SE122-104 Revision: 1

Customer P.O.: S005243-F/Ln:9
Serial No: 9/117

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: MAG. PERM. TO BE LESS THAN 1.02 PER B.P.

PART CHECKS >1.04 BUT LESS THAN 1.05

Proposed Disposition:

CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ **Date:** _____

Buyer Approval: _____

Title: _____ **Date:** _____

Major Tool Implemented By: _____

Title: _____ **Date:** _____

Nonconformance Report: Major Tool NC19063

This is for SE122-104-1 PORT 12 COVER

Problem:

MAG. PERM. TO BE LESS THAN 1.02 PER B.P.

PART CHECKS >1.04 BUT LESS THAN 1.05

Project Disposition:

Accept as is

Approvals:

Mike Viola

Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 15:29:44 -05'00'

Procurement Technical Representative

Art Brooks

Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:46:43 -05'00'

Art Brooks, Technical Assurance

Brad Nelson

Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:36:31 -05'00'

Responsible Line Manager:

F. Malinowski

Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:17:14 -05'00'

Project Quality Assurance:

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-018-1 PORT 12 FLANGE

Drawing ID: SE122-018 Revision: 1

Customer P.O.: S005243-F/Ln:9
Serial No: 9/314

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: MAGNETIC PERMEABILITY
EDGE ON LARGE RADIUS CHECKS BETWEEN 1.3 AND 1.4 FACE CHECKS 1.05

Proposed Disposition:
CUSTOMER DISPOSITION REQUIRED

Number of additional pages: 0

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ Date: _____

Buyer Approval: _____

Title: _____ Date: _____

Major Tool Implemented By: _____

Title: _____ Date: _____

Nonconformance Report: Major Tool NC19142

This is for SE122-018-1 PORT 12 FLANGE

Problem:

MAGNETIC PERMEABILITY

EDGE ON LARGE RADIUS CHECKS BETWEEN 1.3 AND 1.4 FACE CHECKS 1.05

Project Disposition:

Accept as is

Approvals:

Mike Viola

Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 15:31:24 -05'00'

Procurement Technical Representative

Art Brooks

Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:46:13 -05'00'

Art Brooks, Technical Assurance

**Brad
Nelson**

Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:36:56 -05'00'

Responsible Line Manager:

**F.
Malinowski**

Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:17:41 -
05'00'

Project Quality Assurance:

Customer: PRINCETON PLASMA PHYSICS LAB
Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-149-1 PORT 4 COVER
Drawing ID: SE122-149 Revision: 0

Customer P.O.: S005243-F/Ln:9
Serial

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

No.: 9/147
Telephone: 317-636-6433
Fax: 317-634-9420

Problem: The magnetic permeability checks less than 1.1 but more than 1.05.

Proposed Disposition:
CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____

Title: _____ Date: _____

Buyer Approval: _____

Title: _____ Date: _____

Major Tool Implemented By: _____

Title: _____ Date: _____

Nonconformance Report: Major Tool NC19161

This is for /SE122-149-1 PORT 4 COVER

Problem:

The magnetic permeability checks less than 1.1 but more than 1.05.

Project Disposition:

Accept as is

Approvals:

Mike Viola
Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 15:32:55 -05'00'

Procurement Technical Representative

Art Brooks
Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:46:56 -05'00'

Art Brooks, Technical Assurance

Brad Nelson
Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:37:12 -05'00'

Responsible Line Manager:

F. Malinowski
Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:18:09 -
05'00'

Project Quality Assurance:

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: SE122-149-1A / PORT 4A COVER PLATE ASSEMBLY

Drawing ID: SE122-149 Revision: 0

Customer P.O.: S005243-F/Ln:9
Serial No: 9/128

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: Magnetic Permeability 1.02 Max
Checks between 1.1 and 1.15

Proposed Disposition:
CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____ **Title:** _____ **Date:** _____

Buyer Approval: _____ **Title:** _____ **Date:** _____

Major Tool Implemented By: _____ **Title:** _____ **Date:** _____

Nonconformance Report: Major Tool NC19164

This is for SE122-149-1A / PORT 4A COVER PLATE ASSEMBLY

Problem:

Magnetic Permeability 1.02 Max

Checks between 1.1 and 1.15

Project Disposition:

Accept as is

Approvals:

Mike Viola

Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 15:34:28 -05'00'

Procurement Technical Representative

Art Brooks

Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:46:28 -05'00'

Art Brooks, Technical Assurance

**Brad
Nelson**

Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:37:33 -05'00'

Responsible Line Manager:

**F.
Malinowski**

Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:18:36 -
05'00'

Project Quality Assurance:

Customer: PRINCETON PLASMA PHYSICS LAB

Contact: LARRY SUTTON
E-Mail: S-04286-F

Telephone: 609-243-2441
Fax: 609-243-2021

Part: / SE122-104-1 PORT 12 COVER

Drawing ID: SE122-104 Revision: 1

Customer P.O.: S005243-F/Ln:9
Serial No:9/294

Reported By: DOUG MCCORKLE
E-Mail: dMcCorkle@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: PER B.P. MAG. PERM. TO BE LESS THAN 1.02
PART CHECKS GREATER THAN 1.3 AND LESS THAN 1.4

Proposed Disposition:
CUSTOMER DISPOSITION REQUIRED

Number of additional pages: _____

Customer Disposition: Use As Is Rework Repair Scrap Replace

Technical Contact Approval: _____ **Title:** _____ **Date:** _____

Buyer Approval: _____ **Title:** _____ **Date:** _____

Major Tool Implemented By: _____ **Title:** _____ **Date:** _____

Nonconformance Report: Major Tool NC19176

This is for / SE122-104-1 PORT 12 COVER

Problem:

PER B.P. MAG. PERM. TO BE LESS THAN 1.02

PART CHECKS GREATER THAN 1.3 AND LESS THAN 1.4

Project Disposition:

Accept as is

Approvals:

Mike Viola

Digitally signed by Mike Viola
DN: cn=Mike Viola, c=US
Reason: I am approving this document
Date: 2006.02.13 15:36:48 -05'00'

Procurement Technical Representative

Art Brooks

Digitally signed by Art Brooks
DN: cn=Art Brooks, c=US, o=PPPL,
ou=NCSX, email=abrooks@pppl.gov
Reason: I am approving this document
Date: 2006.02.13 15:47:15 -05'00'

Art Brooks, Technical Assurance

**Brad
Nelson**

Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US,
o=ORNL, ou=FED,
email=nelsonbe@ornl.gov
Date: 2006.02.13 16:37:48
-05'00'

Responsible Line Manager:

**F.
Malinowski**

Digitally signed by F. Malinowski
DN: CN = F. Malinowski, C =
US, O = PPPL, OU = QA
Date: 2006.02.14 11:19:20 -
05'00'

Project Quality Assurance: