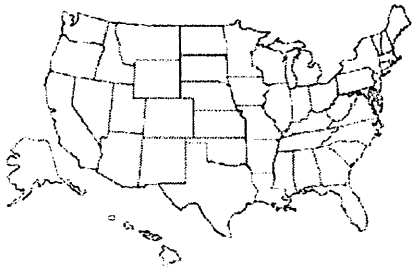
ENERGY INDUSTRIES OF OHIO

Purchase Order Number:
S005242-F

Part Number:
SE141-116

Part Name:
MCWF C-2
MODULAR COIL WINDING FORM

MTM Work Order Number:
65707/2.0



MTM Major Tool & Machine, Inc.

Customer: 8909 - ENERGY INDUSTRIES OF OHIO
Customer P.O.: S005242-F
Customer Part ID: SE141-116 - MCWF C-2

Item#	Document Description / Material Description / File Name / Heat Lot
1	CERTIFICATE OF CONFORMANCE

DS141-036 - STUD

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
2	4	10	30	Material Certification: TEST REPORTS / DS141-036 - STUD - mc108260.tif / 8969595

DS141-060 - NUT

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
3	4	10	50	Material Certification: / DS141-060 - NUT - mc108258.tif / 8977349

SE141-078 - POLOIDAL BREAK SHIM ASSEMBLY

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
4	2	30	20	Certificate of Conformance: POWDER CERT / LOCTITE 411 - LOCKING COMPOUND - mc106141.tif / CERTIFIED

SE141-078-03 - INSULATING SLEEVE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
5	3	10	10	Certificate of Conformance: / G11CR_1 - ROUND, BAR, 1.75 DIA - mc108545.tif / CERTIFIED

SE141-103-1 - MOD COIL WINDING FORM ASSEMBLY TYPE-C

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
6	0	10	10	Material Certification: Trace ID: 116254 / ER316MNNF_093_GTAW - WELD WIRE,GTAW .093 DIA - mc106579.tif / W020132 / WO20132
7	0	10	10	Material Certification: Trace ID: 113686 / ER316MNNF_093_GTAW - WELD WIRE,GTAW .093 DIA - mc106164.tif / W020132 / WO20132

SE141-103-4 - INSULATING SHEET

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
8	7	10	10	Certificate of Conformance: G11CR / G11CR_3 - SHEET, FLAT - mc107081.tif / CERTIFIED

SE141-116 - MODULAR COIL WINDING FORM TYPE-C Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
9	1	20		Non-Conformance: 18022 Customer document: CUSTOMER DISPOSITIONED NCR - car04980.pdf
10	1	40		Inspection Data Checklist: 1 steps
11	1	100		Nondestructive Liquid Penetrant Test Certification #14648 - LPI CERTIFICATION
12	1	110		Certification: RADIOGRAPHIC INSPECTION - MC114459.TIF
13	1	121		Inspection Data Checklist: 4 steps
14	1	134		Inspection Data Checklist: 132 steps
15	1	140		Inspection Data Checklist: 2 steps
16	14	10		Photographs: PERMEABILITY MAP - mc114463.JPG
17	14	10		Inspection Data Checklist: 3 steps
18	14	10		Photographs: PERMEABILITY MAP - mc114462.JPG
19	14	10		Photographs: PERMEABILITY MAP - mc114460.JPG

Customer: 8909 - ENERGY INDUSTRIES OF OHIO
Customer P.O.: S005242-F
Customer Part ID: SE141-116 - MCWF C-2

20	14	10	Photographs: PERMEABILITY MAP - mc114461.JPG
21	16	20	Nondestructive Liquid Penetrant Test Certification #14900 - LPI

SE141-137 - BEARING PLATE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
22	12	10	10	Material Certification: / 316_17 - BAR, FLAT, 1"X3", 316 SST - mc113978.tif / M11443
23	12	40		Inspection Data Checklist: 1 steps

SE141-138 - BEARING PLATE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
24	13	10	10	Material Certification: / 316_17 - BAR, FLAT, 1"X3", 316 SST - Same as Item #22 / M11443
25	13	40		Inspection Data Checklist: 1 steps

Major Tool & Machine, Inc.

CERTIFICATE OF CONFORMANCE

Date: 12/12/05
User ID: MASOOD#

TO: ENERGY INDUSTRIES OF OHIO **DATE: 12/07/2005**

ATTENTION: Receiving Department

Seller certifies that:

Part Number: **SE141-116** Purchase Order: **S005242-F**

Part Name: **MCWF C-2** Workorder: **65707/2.0**

Part Serial Number: **65707/ Lot 2.0** 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:

   [X] From materials furnished by Customer for the production of such parts.

   [X] 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:

ALL REQUIRED CQA ACTIONS COMPLETED 12-12-05. 356-8400 S1501A 37510-2058

Signature: _____ Title: Quality Mgr Date: 12/12/05

ITEM 2

mc108260.tif (1753x2220x2 tiff)

EASTWOOD MANUFACTURING
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE
ORDER # : P05-01160

DATE : 5-16-05
OUR NUMBER 32984

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 .		
32984-1	28 PIECES	DS141-036 ASTM A266 Silver plated Per AMS2410	Heat No.. 8969595	1 7/16 Round, machined to size Heat Treat. 36891 Silver plate. IMF 00132563 Post plate bake. SEI 37905 Tensile test. WH 05-0420-01

TENSILE KSI	YIELD KSI	ELONGATION	REDUCTION	HARDNESS
150	120	14	35	
PASS	PASS	PASS	PASS	PASS

DALE STARK
EASTWOOD MANUFACTURING

MAY 19 2005
96326

1-4
B.1

studs

MTM 09 5/19/05

Republic ENGINEERED PRODUCTS
401 ROSE AVE S E
MASSILLON, OH 44646 FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS JANUARY 26, 2005
PAGE: 1 OF 3

PURCHASE ORDER: 42904-3 PURCHASE ORDER DATE: 05/24/04
PART NUMBER : S# 47670 ACCOUNT NUMBER . . : 27759001
ORDER NUMBER: 12-52585-06 821 SCHEDULE . . . . . : 58028-
HEAT : 8969595

CHARGE ADDRESS

FRY STEEL COMPANY
BUNNIE ISAKA
13325 MOLETTE ST
SANTA FE SPRINGS CA 90670

SHIP TO

FRY STEEL COMPANY
BUNNIE ISAKA
C/O CMI
4201 W 36TH ST
CHICAGO IL 60623

MATERIAL DESCRIPTION

COLD FINISHED STEEL BARS ALLOY DOUGLAS SPEC DMS-1553H GRADE B DTD 07/02/91 EXC MARK & PARA 3.4 OIL TEMP & 3.5 BOEING SPEC BMS 7-260 ASTM A 331-95 ASTM A 108-03 LEVEL 1 MIL S 5000E COND E-4 EXC MARK AMS 6415R EXC BHN AMS 6409B AMS 2310E AMS 2301J AMS 2304A AMS 6484B AMS -S- 5000 ISS 3/99 COND E-4 EXC MARK & PARA 4.3 EF-AISI-E-4340 . AIRCRAFT Q DBL TRANSV MECH PROP COLD DRAWN NOR M & SUBCRITICAL ANN BEFORE CD REST CHEM

SIZE: RDS 1.4375 X 11 /13FT

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR	MO	AL
0.42	00.75	.007	.002	0.22	0.10	01.70	00.84	0.21	00.028
V	N	CB	SN						
0.005	.0064	0.002	.007						

SEMI-FINISH RESULTS

AUSTENITIC GRAIN SIZE
AUST GRAIN SZ 7.

DEVELOPED TENS TRANS NORMALIZE DEG F	ASTM E8 AUSTENITIZE DEG F	ASTM A370 QUENCHANT	TEMPER 1 DEG F
1650.	1550.	OIL	900.

TEMP 1 TIME HOURS
2.0

		TENSILE PSI	REDUCTION AREA PERCENT
PCE H	10102	185010.	45.5
PCE H	10302	180280.	55.6
PCE T	10503	185540.	55.7
PCE H	30102	180570.	51.4
PCE H	30302	193790.	53.0
PCE T	30504	185240.	46.3

DEVELOPED TRANS TENSILE NORMALIZE DEG F	ASTM E8 AUSTENITIZE DEG F	ASTM A370 QUENCHANT	TEMPER 1 DEG F
1650.	1500.	OIL	475.

TEMPER 2/SR DEG F	TEMP 1 TIME HOURS	TEMP 2 TIME HOURS
475.	2.0	2.0

		TENSILE PSI	YIELD (.2%) PSI	REDUCTION AREA PERCENT	ELONGATION PERCENT
PCE H	10102	262320.	223800.	47.0	10.4
PCE H	10302	264250.	222910.	44.6	11.4
PCE T	10503	262170.	225100.	44.6	14.3
PCE H	30102	261840.	218860.	43.8	13.4
PCE H	30302	261260.	222160.	49.3	11.4
PCE T	30504	261050.	225230.	48.2	12.9

AMAN BHATIA
GEN MGR COLD FINISH OPERATIONS
Aman Bhatia

MTM 09 5/19/05

mc108260.tif (1752x2225x2 tiff) [3]

Republic ENGINEERED PRODUCTS
401 ROSE AVE S E
MASSILLON, OH 44646 FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS JANUARY 26, 2005
PAGE: 2 OF 3

PURCHASE ORDER: 42904-3 PURCHASE ORDER DATE: 05/24/04
PART NUMBER : S# 47670 ACCOUNT NUMBER . . : 27759001
ORDER NUMBER: 12-52585-06 821 SCHEDULE . . . . . : 58828-
HEAT . . . . : 8969595

SEMI-FINISH RESULTS (CONTINUED)

DEVELOPED TRANS TENSILE — ASTM E8 — ASTM A370

NORMALIZE DEG F	AUSTENITIZE DEG F	QUENCHANT	TEMPER 1 DEG F
1650.	1500.	OIL	475.

TEMPER 2/SR DEG F	TEMP 1 TIME HOURS	TEMP 2 TIME HOURS
475.	2.0	2.0

	TENSILE PSI	YIELD (.2%) PSI	REDUCTION AREA PERCENT	ELONGATION PERCENT
PCE H 10102	256220.	218900.	35.8	9.7
PCE H 10302	260560.	223410.	46.3	10.6
PCE T 10503	254270.	220610.	14.6	7.6
PCE H 30102	263550.	222210.	35.4	11.0
PCE H 30302	261190.	223640.	46.8	12.3
PCE T 30504	258710.	221100.	44.3	11.8

JOMINY STD — SAE J406 — ASTM A255

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32
58	58	57	57	57	57	56	56	56	56	56	56	56	55	55	55	55	54	53	52	51	51	50	49	49

MACROETCH SRC — ASTM E381 — MIL STD 430
AVG SURFACE 1. RANDOM .1. CENTER 1.

MAG PARTICLE 2301 — AMS 2301
AVG AVG FREQ 0.00 AVG SEV 0.00

MAG PARTICLE 2304 — AMS 2304
AVG AVG FREQ 0.00 AVG SEV 0.00

FINISH SIZE RESULTS SCHEDULE: 58828

DECARBURIZATION — SAE J419 — ASTM E1077

TOTAL DEPTH INCHES
PCE 01 .015

HBW SURFACE (LAB) — ASTM E10 — ASTM A370

HBW
PCE 01 217.
PCE 02 217.
PCE 03 217.
PCE 04 217.
PCE 05 223.

MATERIAL SOURCES

RED. RATIO TO 1
73.6

TENSILE HT TRTD — ASTM E8 — ASTM A370

NORMALIZE DEG F
PCE 01 1625.

NOTES

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, ASTM E1019, AND ASTM E1085.

AMAN BHATIA
GEN MGR COLD FINISH OPERATIONS

MTM 09 5/19/05

58828

mc108260.tif (1780x2252x2 tiff) [4]

Republic ENGINEERED PRODUCTS
401 ROSE AVE S E
MASSILLON, OH 44646 FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS JANUARY 26, 2005
PAGE: 3 OF 3

PURCHASE ORDER: 42904-3 PURCHASE ORDER DATE: 05/24/04
PART NUMBER : S# 47670 ACCOUNT NUMBER . . : 27759001
ORDER NUMBER: 12-52585-06 821 SCHEDULE . . . . . : 58828-
HEAT . . . . : 8969595

NOTES (CONTINUED)

NO WELDING OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENT OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUES TITLE 18 CHAPTER 47.

I HEREBY CERTIFY THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

WHEN EVALUATED, MACRO ETCHES WERE VISUALLY RATED ON SAMPLES ETCHED USING HYDROCHLORIC ACID AT A TEMPERATURE 170 DEGREES(F) (+/- 10 DEGREES F)

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

MFG IN THE U.S.A.

ALISON J. BLONDHEIM
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES MARCH 10, 2009

----- END OF DATA ----- CC ----- END OF DATA -----

FAX	SHIP TO	1 COPY	ATTENTION BUNNIE ISAKA	562-802-7481
MAIL	SOLD TO	1 COPY	ATTENTION BUNNIE ISAKA	
FILE		1 COPY		
WITH SHIPMENT		1 COPY		SHIPPING AREA:

32984

FAY STEEL CO. CERTIFIES THAT THIS IS A TRUE COPY OF THE ORIGINAL MILL TEST REPORT NOW ON FILE.
RECEIVED AND INSPECTED
FEB 14 2005
BY Bunnie Isaka

AMAN BHATIA
GEN MGR COLD FINISH OPERATIONS
Aman Bhatia

MTM 09 5/19/05

mc108260.tif (1756x2228x2 tiff) [5]

Tensile Test Report

Company: Eastwood Mfg. Date: 4/22/2005

Lab Report #: 05-0420-01

Attention: Dale Stark P.O. #: 32984

Identification: AISI 4340

Procedure: 1-3/8" O.D.

Process:

Filler: Heat#8969585

Qualification:

Welder:

32984

32984

TENSILE TEST

Lab ID	Dimensions	Area	Yield Lbs	Ultimate Load Lbs	Yield P.S.I.	Tensile P.S.I.
C	.504 round	.1995	31,860	34,700	159,700	174,000

Elongation	Reduction of Area	Fracture	Comments
18.2%	52.3%	Ductile	

Tests performed in accordance with ASTM A370, E8, and WH Laboratories, LLC Quality Assurance Manual.
.2% Offset Yield – Gage Length 2.000" for .500", and 1.400" for .350" tensile per ASTM A370.
Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.

Approved by: Robert French

MTM 09 5/19/05

SEI HEAT TREAT

PO BOX 16339 HOUSTON, TX 77222
PHONE (713) 699-3892 FAX (713) 694-0891

CUSTOMER: EASTWOOD MANUFACTURING	CERTIFICATION DATE: MAY 11, 2005
CERTIFICATION/SO NUMBER: 37905	CUSTOMER ORDER NUMBER: 32984

MATERIAL: 4340	NUMBER OF PIECES: 28
DESCRIPTION: 1-3/8" X 8" STUDS SLIVER PLATED	PART NUMBER(S): N/A
SPECIFICATION NUMBER: EASTWOOD MANUFACTURING	REFERENCE: N/A

HEAT TREAT PROCESS	TIME AT HEAT	COOLANT
BAKE 950°	45 min	AIR

32984

h31 x5

HARDNESS TEST:	NUMBER OF PIECES TESTED:

WE HEREBY CERTIFY THAT THE SERVICE FURNISHED ON THE ABOVE PURCHASE ORDER IS PROVIDED IN ACCORDANCE WITH OUR QUALITY CONTROL MANUAL, REVISION B, DATED JANUARY 21, 2001	QUALITY CONTROL:

Copyright © 2000 SEI Heat Treat

MTM 09 5/19/05

Eastwood Manufacturing
6825 Breen Rd.
Houston, Texas 77086
(281) 447-0081 fax (281) 447-0098

P.O. P05-01160

INSPECTION DATA CHECK LIST FOR
Major Tool & Machine Inc.

Part Number (Detail / Sub-Assy/ Assy)	Rev.	Page
DS141-036		1 of 1
Part Name (Detail) / Sub-Assy / Assy)		
Stud, 1.375-6 2A x 9 lg		
MATERIAL:	WORK ORDER # 32984	Quantity 126

P.O. - DRAWING - SPECIFICATION DESCRIPTION			INSPECTION INSTRUCTIONS			INSPECTION RESULTS	INSPECTED BY		
SHT	ZONE	CHARACTERISTIC	GAGE/EQUIP.	BY	SAMPLE	DATA, CAR NO., REMARKS	MFG	QA	DATE
		Length 9.00 $^{+.25}_{-.00}$	Caliper #201	ns	25	9.025 - 9.017		NS	5-5-05
		4.50	Caliper #200	ns	25	4.50		NS	5-5-05
		Pitch Dia. 1.2643 - 1.2561	Mic 1-2	ns	25	1.261 - 1.257		NS	5-505
		Body Dia. 1.375 $^{+0000}_{-.0002}$	#207 Mic 1-2	ns	25	1.3748 - 1.3749		NS	5-5-05
		Thread GO - NOGO	Gage #G017 #G017N	ns	25	ok		NS	5-5-05

COMMENTS: RECORD ALL DIMENSIONS THAT CARRIES A TOLERANCE OF (+-) .25mm OR LESS

MTM 09 5/19/05

From: Eastwood Manufacturing 281-447-0098 To: MAJOR TOOL & MACHINE Date: 5/17/2005 Time: 1:46:22 PM Page 8 of 22
mc108260.tif (1670x2180x2 tiff) [7]

mc108260.tif (1762x2241x2 tiff) [8]

INDUSTRIAL METAL FINISHING

CERTIFICATE OF COMPLIANCE

TO: EASTWOOD MFG. 5/86
P.O. BOX 41447
HOUSTON, TX 77241

THIS IS TO CERTIFY THAT THE METAL FINISHING SERVICE RENDERED ON ITEM(S)

126 EA. - 1.375 X 9 DE STUDS
252 EA. - 2.75 OD WASHERS
252 EA. - 1.375 12PT NUTS

ON PURCHASE ORDER 32984 LISTED ON OUR INVOICE #00132583

MEETS OR EXCEEDS THE REQUIREMENTS OF SPECIFICATION NUMBER

CERT: SILVER PLATE PER AMS 2410
NO BAKE REQUIRED

32984

QUALITY PROGRAM DATED: 05/01/93 REVISION: 1 DATED: 04/01/94

NAME: Teri McElhaney

TITLE QC Manager DATE 5/10/05

MTM 05 5/19/05

ITEM 3

mc108258.TIF (1754x2223x2 tiff)

EASTWOOD MANUFACTURING
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE
ORDER # : P05-01161

DATE : 5-16-05
OUR NUMBER 32982

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 :		
32982-1	56 PIECES	DS141-060 ASTM A286 Silver plated Per AMS2410	Heat No.. 8977349	1 5/8 Round, forged and machined to size Heat Treat: 36891 Silver plate: IMF 00132583 Post plate bake: none Tensile test: WH 05-0426-20

TENSILE KSI	YIELD KSI	ELONGATION	REDUCTION	HARDNESS
150	120	14	35	
PASS	PASS	PASS	PASS	PASS

DALE STARK
EASTWOOD MANUFACTURING

MAY 19 2005
96329
1-4
B.7

5/19/05
MTM 09

~~washers~~ nuts

Republic ENGINEERED PRODUCTS

GARY COLD FINISHED BAR PLANTS
PHONE: 219-886-8129 FAX: 219-886-8123

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS SEPTEMBER 27, 2004
PAGE: 1 OF 2

PURCHASE ORDER: 427145
PART NUMBER . . : S# 51250
ORDER NUMBER . : 12-51689-04 823
HEAT . . . . . : 8977349
PURCHASE ORDER DATE: 03/11/04
ACCOUNT NUMBER . . . : 27759001
SCHEDULE . . . . . : 54199-

CHARGE ADDRESS

FRY STEEL COMPANY
BUNNIE ISAKA
13325 MOLETTE ST
SANTA FE SPRINGS CA 90670

SHIP TO

FRY STEEL COMPANY
BUNNIE ISAKA
C/O CMI
4201 W 36TH ST
CHICAGO IL 60623

MATERIAL DESCRIPTION

COLD FINISHED STEEL BARS ALLOY ASTM A 331-95 ASTM A 108-03 LEVEL 2 MIL S 5626C & AMD 1 COND C-4 EXC MARK & PARA 4.3.1 & 4.12.1 WAIVED AMS 6382M AMS 2304A AMS 6349C EXC THERMAL TREATMENT AMS 2301J AMS - S - 5626 ISS 12/98 EXC PARA 4.3.1 & 4.12.1 EF-AISI-4140 AIRCRAFT Q TURNED & POLISHED ANN BEFORE TURN

SIZE: RDS 1.6250 X 12 7/12FT

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR	MO	AL
0.42	00.90	.011	.020	0.24	0.18	00.16	00.97	0.21	00.027
V	N	CB	SN						
0.004	.0067	0.002	.009						

SEMI-FINISH RESULTS

AUSTENITIC GRAIN SIZE
AUST GRAIN SZ 7

JOMINY STD SAE J406 ASTM A255

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32
58	57	57	56	56	56	55	55	53	52	50	48	47	45	44	43	40	39	38	38	38	37	38	37

MACROETCH SRC ASTM E381 MIL STD 430
AVG SURFACE 1. RANDOM 1. CENTER 1.

MAG PARTICLE 2301 AMS 2301
AVG AVG FREQ 0.00 AVG SEV 0.00

MAG PARTICLE 2304 AMS 2304
AVG AVG FREQ 0.00 AVG SEV 0.00

FINISH SIZE RESULTS SCHEDULE: 54199

BHN	HT TRTD (LAB)	ASTM E10	ASTM A370
PCE 01	SURFACE 187		
PCE 02	SURFACE 187		
PCE 03	SURFACE 187		
PCE 04	SURFACE 187		
PCE 05	SURFACE 187		

MATERIAL SOURCES
RED. RATIO
TC 1
58.2

NOTES

DECARB NIL

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS:
ASTM E 327 ASTM E 1086 ASTM E 415 ASTM E 1019 ASTM E 1085 ASTM E572.

NO WELDING OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL

5/19/05

MTM 09

AMAN BHATIA
GEN MGR COLD FINISH OPERATIONS

Aman Bhatia

mc108258.TIF (1664x2194x2 tiff) [3]

Republic ENGINEERED PRODUCTS
GARY COLD FINISHED BAR PLANTS
PHONE: 219-886-8129 FAX: 219-886-8123

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS SEPTEMBER 27, 2004
PAGE: 2 OF 2

PURCHASE ORDER: 42714-5 PURCHASE ORDER DATE: 03/11/04
PART NUMBER : S# 51250 ACCOUNT NUMBER . . : 27759001
ORDER NUMBER: 12-51689-04 823 SCHEDULE . . . . . : 54199-
HEAT . . . . : 8977349

NOTES (CONTINUED)

I HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATION.

MFG IN THE U.S.A.

EVELYN GREENE
NOTARY PUBLIC, STATE OF INDIANA
MY COMMISSION EXPIRES OCTOBER 10, 2009

----- END OF DATA ----- CC ----- END OF DATA -----

FAX BY FAX PC 1 COPY ATTENTION BUNNIE ISAKA 562-802-7481
MAIL SOLD TO 1 COPY ATTENTION BUNNIE ISAKA
FILE 1 COPY
WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA

REPUBLIC STEEL CO CERTIFIES THAT THIS IS A TRUE COPY OF THE ORIGINAL MILL TEST REPORT NOW ON FILE.
INSPECTED

OCT 0 5 2004

BY Bunnie K. Isaka - D.C. MANAGER

5/19/05
KTM 09

AMAN BHATIA
GEN MGR COLD FINISH OPERATIONS
Aman Bhatia

Tensile Test Report

Company: Eastwood Mfg.
Date: 4/27/2005
Lab Report #: 05-0426-20
Attention: Dale Stark
P.O. #: 32982
Identification: AISI 4140
Procedure: 1-5/8" Diameter Bar
Process:
Filler:
Qualification:
Welder:

TENSILE TEST

Lab ID	Dimensions	Area	Yield Lbs	Ultimate Load Lbs	Yield P.S.I.	Tensile P.S.I.
E	.252 round	.0499	7,140	8,000	143,100	160,400

Elongation	Reduction of Area	Fracture	Comments
18.9%	61.2%	Ductile	

Tests performed in accordance with ASTM A370, E8, and WH Laboratories, LLC Quality Assurance Manual.
.2% Offset Yield – Gage Length 2.000" for .500", and 1.400" for .350" tensile per ASTM A370.
Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.

Approved by: Robert French

5/19/05

KTM 09

Ea wood Manufacturing
9825 Breen Rd.
H ston, Texas 77086
(281) 4 -0081 fax (281) 447-0098

INSPECTION DATA CHECK LIST FOR Major Tool & Machine Inc.

Part Number (Detail / Sub-Assy/ Assy)	Rev.	Page of
DS141-060		1 1

Part Name (Detail / Sub-Assy / Assy)

Nut, 12 pt 1.375-6 UNC-2B

MATERIAL:	WORK ORDER #	Quantity
	32982	252

F P05-01161

P.O.	DRAWING - SPECIFICATION DESCRIPTION		INSPECTION INSTRUCTIONS			INSPECTION RESULTS	INSPECTED BY		
SHT	ZONE	CHARACTERISTIC	GAGE/EQUIP.	BY	SAMPLE	DATA, CAR NO., REMARKS	MFG	QA	DATE
		1.375 Maximum	Caliper #200	ns	25	1.375 - 1.370		NS	5-5-05
		2.216 Maximum	Caliper #200	ns	25	2.210 - 2.205		NS	5-5-05
		1.00	Caliper #200	ns	25	1.010 - 1.000		NS	5-5-05
		1.225 Minor Dia.1.195	Caliper #200	ns ns	25	1.210 - 1.205		NS	5-5-05
		Thread GO - NOGO	gage 243 244	ns	25	ok		NS	5-5-05
		Acorss Flat 1.62	Caliper #200	ns	25	1.62		Ns	5-5-05

COMME : RECORD ALL DIMENSIONS THAT CARRIES A TOLERANCE OF (+-) .25mm OR LESS

MTM 09 5/17/05

From: Eastwood Manufacturing 281-447-0088 To: MAJOR TOOL & MACHINE Date: 5/17/2005 Time: 1:46:22 PM Page 13 of 22
mc108258.TIF (1684x2155x2 tiff) [5]

INDUSTRIAL METAL FINISHING

CERTIFICATE OF COMPLIANCE

TO: EASTWOOD MFG. 5/86
P.O. BOX 41447
HOUSTON, TX 77241

THIS IS TO CERTIFY THAT THE METAL FINISHING SERVICE RENDERED ON ITEM(S)

126 EA. - 1.375 X 9 DE STUDS
252 EA. - 2.75 OD WASHERS
252 EA. - 1.375 12PT NUTS

ON PURCHASE ORDER 12984 LISTED ON OUR INVOICE #00132583

MEETS OR EXCEEDS THE REQUIREMENTS OF SPECIFICATION NUMBER

CERT: SILVER PLATE PER AMS 2410
NO BAKE REQUIRED

QUALITY PROGRAM DATED: 05/01/93 REVISION: 1 DATED: 04/01/94

NAME: Terri McGlothlin

QC Manager 5/20/05
TITLE DATE

12984

5/19/05
MTM 09

ITEM 4

mc106141.tif (1652x2150x2 tiff)

03/04/05 13:36 FAX 630 834 9427 002

MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN 46218

McMASTER CARR SUPPLY #3

YOUR PURCHASE ORDER NUMBER
P05-01260
Today's Date:

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

PAGE 1
MCM NUMBER 6148181-01

EXTRA PACKING LIST

Warehouse Location	McMaster-Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
	74765 A86	1 EA	LOCTITE PRISM SUPER GLUE HZ-N TOUGHENED,NUMBER 411,1-POUND BOTTLE,CLEAR 1	1	1 EA	1
	74765 A86	1 EA	LOCTITE PRISM SUPER GLUE HZ-N TOUGHENED,NUMBER 411,1-POUND BOTTLE,CLEAR 1	2	1 EA	1
		*****	Information about the rest of your order		*****	
	74765 A86		LOCTITE PRISM SUPER GLUE Balance of 1 EA expected to ship by 3/7/2005	3	1 EA	
	74765 A86		LOCTITE PRISM SUPER GLUE Balance of 1 EA expected to ship by 3/7/2005	4	1 EA	
	74765 A86		LOCTITE PRISM SUPER GLUE Balance of 1 EA expected to ship by 3/7/2005	5	1 EA	
	74765 A86		LOCTITE PRISM SUPER GLUE Balance of 1 EA expected to ship by 3/7/2005	6	1 EA	

Certificate of Compliance

This is to certify that according to our records, the material furnished on this purchase order was supplied in compliance to the description listed, and as illustrated in our catalog.

Nancy Lancaster
Quality Control

REFER TO: 6148181-01
MAJOR TOOL & MACHINE INC

PACKER	NUMBER OF CARTONS	FILLER

LNS: 2

TAG
CCP

WEIGHT 2

CYCLE

MTM 09

3/4/05

MAR - 4 2005

93966

1, 2 B-1

2402

T3CE0

MCM NO. 6148181-01 04

PURCHASE ORDER
P05-01260

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

ITEM 5

mc108545.tif (1628x2145x2 tiff)

Spaulding COMPOSITES
55 Nadeau Drive
Rochester, NH 03867
Ph: (603) 332-0555 Fax: (603) 332-5357
www.spauldingcom.com

Shipping List 072435
Customer No 101193
Sales Order Shipper

Sold to : STANDARD GRINDING & MFG CO
3721 W. CHASE AVENUE
SKOKIE, IL 60076
United States

Ship to : STANDARD GRINDING & MFG CO
3721 W. CHASE AVENUE
SKOKIE, IL 60076
United States

Ship Date	Customer PO	Sales Order	# of Boxes	Weight	Ship VIA	Bill of Lading	FOB
05/17/2005	60624	085171-00	1	0	YELLOW	072435	DE

Item	Part / Description / Details	Order Quantity	Ship Qty
000001	39G1CNT73125NMWLF U/M SHT SO Item 4 G-11 CR 46" +untrimmed X 36"+untrimmed Thickness: 3.125" +/-.110" PLEASE NOTE THAT THERE IS NO NEMA STANDARD FOR G-11 CR SHEET SPAULDING C OF C TO G -11 CR SHEET NO TESTING REQUIRED AT TIME OF ORDER Sheet Lot 3.550 TK	1.00000	1.00000

RECEIVED
MAY 19 2005
By

RECEIVED
MAY 11 2005
9650 7

Lics 1,2
B.J.
MTM 09 5/31/05

CERTIFICATE of CONFORMANCE

WE HEREBY CERTIFY THAT THE MATERIAL SUPPLIED ON THIS ORDER WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PROCESSES ESTABLISHED BY SPAULDING COMPOSITES COMPANY FOR THE REQUIREMENTS OF MATERIAL DESCIBED ABOVE.

LOT # DOM.

Authorized By: Mark F Cardillo Date: 05/17/2005

Customer Copy

Form: SCSHIP Rev: 8/99

05/26/05 13:00 8474 1723 ATLAS FIBRE CO. 002/003

mc108545.tif (1644x2177x2 tiff) [2]

Spaulding COMPOSITES
55 Nadeau Drive
Rochester, NH 03867
Ph: (603) 332-0555 Fax: (603) 332-5357
www.spauldingcom.com

Shipping List 072434
Customer No 101193
Sales Order Shipper

Sold to : STANDARD GRINDING & MFG CO
3721 W. CHASE AVENUE
SKOKIE, IL 60076
United States

Ship to : STANDARD GRINDING & MFG CO
3721 W. CHASE AVENUE
SKOKIE, IL 60076
United States

Ship Date	Customer PO	Sales Order	# of Boxes	Weight	Ship VIA	Bill of Lading	F O B
05/17/2005	60624	065169-00	1	716	YELLOW	072434	DE

Item	Part / Description / Details	Order Quantity	Ship Qty
000001	39G1CN771850NMWLF U/M SHT SO Item 5	1.00000	
	G-11-CR 48" +UNTRIMMED X 36"+UNTRIMMED THK: 1.850" +/-.070" PLEASE NOTE THAT THERE IS NO NEMA STANDARD FOR G-11 CR SHEET SPAULDING C OF C TO G -11 CR SHEET NO TESTING REQUIRED AT TIME OF ORDER		1.00000

RECEIVED
MAY 19 2005
By

5/31/05
MTM 09

CERTIFICATE of CONFORMANCE

WE HEREBY CERTIFY THAT THE MATERIAL SUPPLIED ON THIS ORDER WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PROCESSES ESTABLISHED BY SPAULDING COMPOSITES COMPANY FOR THE REQUIREMENTS OF MATERIAL DESCIBED ABOVE.

LOT # DOM.

Authorized By: Mark F Candillo Date: 05/17/2005

Customer Copy

Form: SCSHIP Rev: 8/99

05/26/05 13:00 8474741723 ATLAS FIBRE CO. 003/003

ITEM 6

METRODE PRODUCTS LTD
HANWORTH LANE
CHERTSEY SURREY
ENGLAND KT16 9LL
Tel: +44 (0)1932 566721
Fax: +44 (0)1932 565168
Email: info@metrode.com
Internet: http//www.metrode.com

TEST CERTIFICATE

THIS PRODUCT HAS BEEN MANUFACTURED
AND SUPPLIED THROUGH A SYSTEM APPROVED
TO ISO 9001 & 2 OR EQUIVALENT

TEST CERTIFICATE NUMBER 194277

METRODE WELDING CONSUMABLES

BATCH No.	W020132
OUR ORDER REF.	S01708013 / 1
DATE	09/03/05
PRODUCT FORM	ER316MNNF TIG 2.4MM TIG WIRE
SPECIFICATION	BS EN 12072:2000 W 20 16 3 Mn L

INVOICE TO	DESPATCHED TO:
EUROWELD LTD 255 ROLLING HILLS ROAD MOORESVILLE NC 28117 USA	EUROWELD LTD 255 ROLLING HILLS ROAD MOORESVILLE NC 28117 USA

IMPORTANT: Any liability arising from either reliance on this certificate, or use of our products, is strictly limited and governed by our conditions of business.

CUSTOMER ORDER No.	DELIVERY NOTE DOCUMENT No.	QUANTITY (Kg)
N. 05-39	DN0106163	17.5000

CHEMICAL ANALYSIS (WEIGHT %) TYPE CERTIFIED MATERIAL TEST REPORT: BS EN 10204: 3.1.B

C	Mn	Si	S	P	Cr	Ni	Mo	N	Cu			
0.015	7.43	0.42	0.006	0.014	19.9	15.4	2.62	0.14	0.20			

TYPICAL ALL-WELD METAL MECH. PRORERTIES, AS WELDED:-
TS: >600 N/mm2; 0.2%PS: >400 N/mm2; EL. ON 4D: 40 %;
CVN @ -196 DEG.C: 70 J.

3/23/05
44534

3/23/05
MTM 09

Line 1
B-2

Metrode Products Ltd. certifies that the above material conforms to the indicated specifications

B. KYIET
Q A MANAGER

NOTES: *"Ni includes incidental Co unless otherwise specified.
*"Nb (Cb) includes incidental Ta unless otherwise specified.
Ferrite is given as FN (Ferrite Number) and measured on all-weld pad using instrument calibrated against NRS rotated secondary standards (See AWS A4 2-97) unless otherwise specified.

All Test certificates issued by METRODE will contain this embossed seal. Any recipient of a copy of METRODE Test Certificate without the seal should ensure from the supplier that it is a true and accurate reproduction of the original.

mc106579.tif (1652x2103x2 tiff)

ITEM 7

mc106164.tif (1742x2235x2 tiff)

METRODE PRODUCTS LIMITED
HANWORTH LANE, CHERTSEY
SURREY, UK, KT16 9LL
Tel: +44 (0) 1932 566721
Fax: +44 (0) 1932 565168
Email: info@metrode.com
Website: www.metrode.com

CERTIFIED MATERIAL TEST REPORT

THIS PRODUCT HAS BEEN MANUFACTURED AND SUPPLIED THROUGH A SYSTEM APPROVED TO ISO 9001 & 2 OR EQUIVALENT

METRODE WELDING CONSUMABLES

TEST CERTIFICATE NUMBER

193695

INVOICE TO
EUROWELD LTD
255 ROLLING HILLS ROAD
MOORESVILLE
NC 28117
USA

DESPATCHED TO
EUROWELD LTD
255 ROLLING HILLS ROAD
MOORESVILLE
NC 28117
USA

CUSTOMER ORDER NUMBER	N.05-34
DELIVERY NOTE DOCUMENT NUMBER	DNQ105859
QUANTITY (KG)	15.0000
OUR ORDER REFERENCE	SO1787730 / 1
DATE	02/03/05

METRODE WELDING CONSUMABLE	ER316MNNF TIG 2.4mm
FORM	TIG WIRE
BATCH NUMBER	WO20132
SPECIFICATION	BS EN 12072:2000 W 20 16 3 Mn L

Chemical Analysis (Weight %) — Type: BS EN 10204: 3.1.B / ASME SFA-5.01: Sch. H

C	Mn	Si	S	P	Cr	Ni	Mo	N	Cu		
0.015	7.43	0.42	0.006	0.014	19.9	15.4	2.62	0.14	0.20		

Mechanical Tests — Type: BS EN 10204: 2.2 / ASME SFA-5.01: Sch. G

Tensile Tests / Impact Energies

Condition	Test Temperature	$Rp_{0.2\%}$ (MPa)	Rm (MPa)	A4 (%)	Z (%)	Temperature (°C)	Impact Energy (J)	Lateral Expansion (mm)
AS-WELDED	ROOM	>400	>600	40	-	-196	70	-

Metrode Products Limited certifies that the above material conforms to the indicated specifications

This document is produced electronically and is valid without signature.

IMPORTANT Any liability arising from either reliance on this certificate, or use of our products, is strictly limited and governed by our conditions of business.

Barrie Kytel – Q.A.Manager

ASME SFA-5.01; Lot classification 54

3/3/05
93911
Line 1 B.1

Notes:
% Ni includes incidental Co unless otherwise specified
% Nb (Cb) includes incidental Ta unless otherwise specified
Ferrite is given as FN (Ferrite Number) and measured on all-weld pad using instrument calibrated against NBS-related secondary standards (See AWS A4.2-97) unless otherwise specified

MTH 09 3/7/05

FROM : EUROWELD-LTD FAX NO. : 704 662 9820 Mar. 02 2005 09:57AM P2

ITEM 8

mc107081.tif (1668x2198x2 tiff)

GE Advanced Materials, Polymershapes

Certificate of Conformance

Date:

Attn: Receiving Inspection
To: Major Tool + Machine
Address: 1458 E. 19th St.
Indianapolis, IN 46218

Customer P.O. Number: P05-01288
Sales Order No: 2790834

It is hereby certified that the product information provided below conforms to the corresponding information in the possession of GE Advanced Materials, Polymershapes with respect to such products. This certification and the sale of products are subject to GE Advanced Materials, Polymershapes' standard conditions of sale. This document shall not be reproduced, except in full, without prior written approval.

Quantity	Description	Lot/Specification/Standard Number
36	GILCR Plendiasheet .063"THK X 16"X 38"	NO SPEC / N38.009023

MTM 09
4/5/05

APR - 5 2005
94942
1-18

GE Advanced Materials, Polymershapes

By: Ernest Evans

Title: Warehouse Worker

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ITEM 9

Major Tool & Machine, Inc.
1458 East 19th Street
Indianapolis, IN 46218-4289

MTM N/C: 18022

Page: 1
Date: 08/30/05
User ID: BOWLING

Customer: ENERGY INDUSTRIES OF OHIO
Contact: NANCY HORTON
E-Mail: NKHFlowen@aol.com
Telephone: 216-496-2314
Fax: 216-328-2001

Part: /
Drawing ID: SE141-116
Revision: 6
Customer P.O.: S005242-F/Ln:2
Serial No./Qty: C2

Reported By: KEVIN BOWLING
E-Mail: kBowling@MajorTool.com
Telephone: 317-636-6433
Fax: 317-634-9420

Problem: 1. Tool gouge in T-Section. See photograph for location. 2. Hole is oversize at the outside face approx. .125" deep.

Proposed Disposition:

1. Weld build up tool gouged area and re-machine. 2. Install .18 x 45° chamfer on the hole.

Number of additional pages:_____

Customer Disposition: [ ] Use As Is [X] Rework [ ] Repair [ ] Scrap [ ] Replace

Agree with proposed disposition.

Approved:

Phil Heitzenroeder
2005.09.12 11:08:21 -04'00'

PPPL Tech. Representative

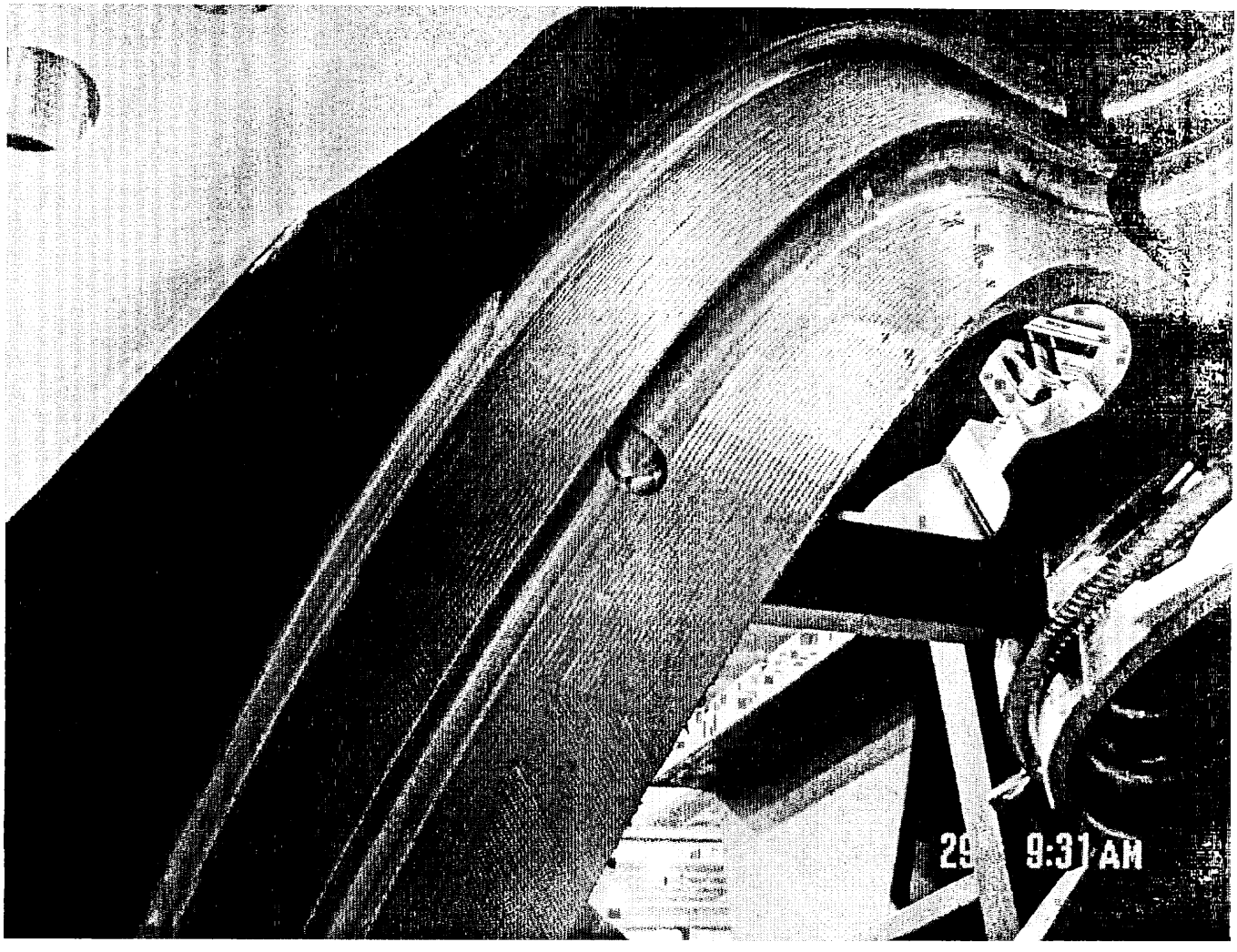
Brad Nelson
Digitally signed by Brad Nelson
DN: cn=Brad Nelson, c=US, o=ORNL, ou=SNS, email=nelsonbd@ornl.gov
Date: 2005.09.12 11:44:06 -04'00'

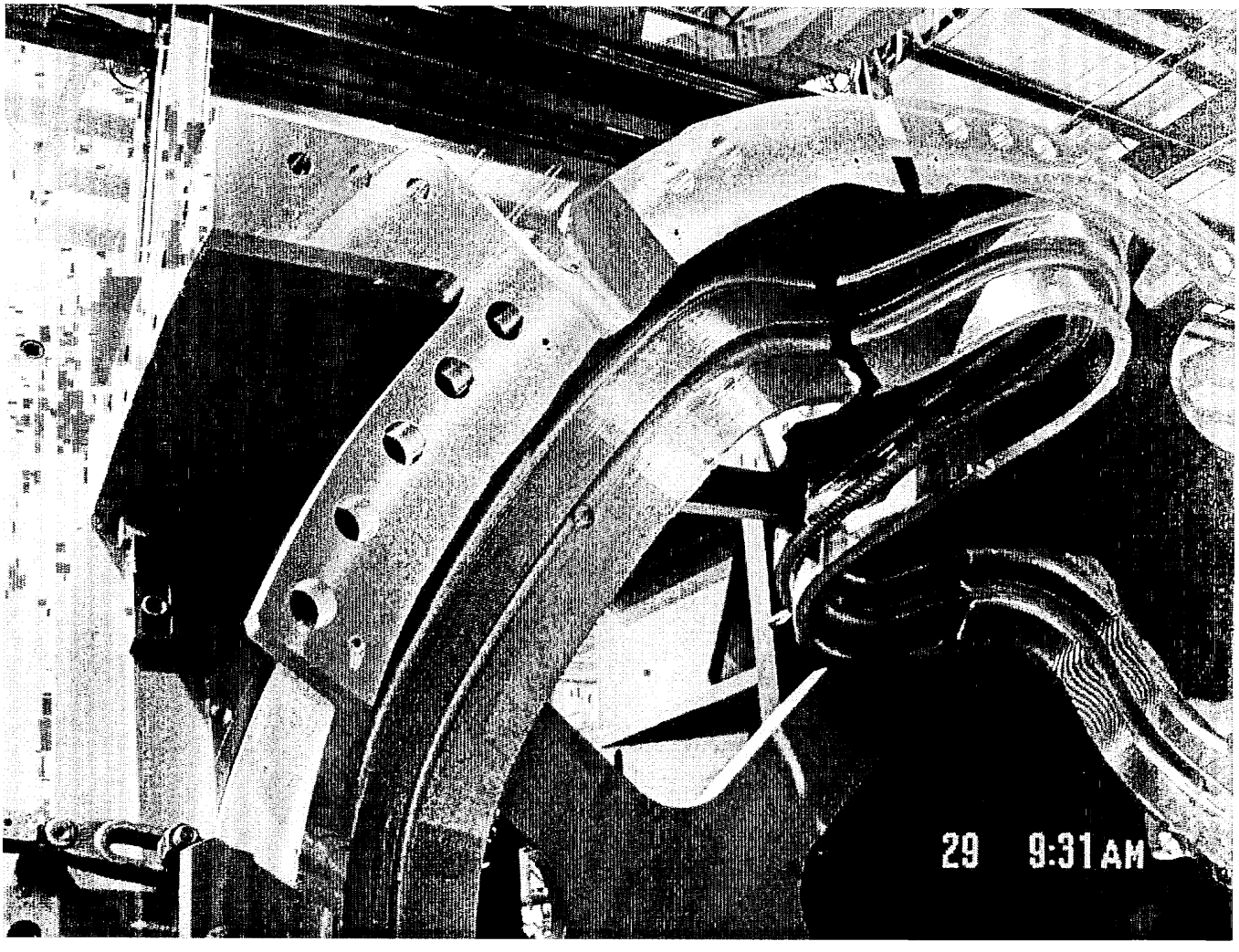
Responsible Line Manager

Major Tool Implemented By: _____ Title: PROCESS ENGINEER Date: 12/2/05

n:\mmapps\Mtnonc14.qrp

29 9:31AM


29 9:31 AM


29 9:31AM

ITEM 10

INSPECTION DATA CHECKLIST

Quality Assurance Documentation for Part ID: SE141-116 - Item: 10

Workorder: 65707/2-0 Sub:1 Op:40

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-116 Rev: 7			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*			MASTER GAGE	QA		J-1270	16 PLACES TOTAL. C	854-R.U			A
							HECKS LESS THAN 1.0				
		RECORD MAG PERMEABILITY RANGE					2				
(10)		(IN-PROCESS INSPECTION)						12-12-05			

Major Tool and Machine, Inc. 1458 East 19th Street, Indianapolis, IN 46218 (317)636-6433 Fax (317)634-9420

ITEM 11

Nondestructive Test
Certification for Liquid Penetrant Examination

1458 E. 19th Street, Indianapolis, In 46218
TEL:(317)636-6433 FAX:(317)634-9420

Quality Assurance Documentation for Part ID: SE141-116 - Item: 11

Date of Inspection: 11/25/2005 **Type of Material:** CAST STAINLESS **NDT#:** 14648

Stage of Inspection:	Manufacturing Process:	Surface Condition:	Test Being Run to:	Heat Treated:
[ ] Incoming Inspection	[ ] Weldment [x] Casting	[x] Machined	[x] Router Instructions	[x] Yes
[ ] In-Process Inspection	[ ] Bar Stock [ ] Plate	[ ] Rough	[x] Drawing	[ ] No
[ ] After Repair	[ ] Forging [ ] Other	[x] Other	[ ] Test Plan	
[x] Final Inspection		CLEANED & DEBURRED	[ ] Technique Card	
			SEE NOTES	

Part Information:
- **MTM Job Number:** 65707/2.0 -Sub:1 -Op:100
- **Resource ID:** 810-LIQUID PENETRANT INSPE
- **Part ID:** SE141-116
- **Part Name:** MODULAR COIL WINDING FOR
- **Serial Number:**
- **Customer P.O.:** S005242-F
- **Customer Unit/Plant:**

Test Results:
- **Quantity Inspected:** 1
- **Quantity Accepted:** 0
- **Quantity Rejected:** 1
- **Run Hours:** 0.0

Customer Inspection Plan: SEE NOTES
- **Test Step:**
- **Revision:**
- **Material Test Number:**

Inspection Criteria:
- **Customer Specification:** ASTM A903/A903M
- **MTM Spec Number:** PS582 (REF NDT-WI-09)
- **Acceptance Standard:** ASTM A903 (SEE NOTES)

Inspection Materials Used:
- **Manufacturer:** SHERWIN
- **Type of Penetrant:** DP-51
- **Batch Number:** 41-E47
- **Developer:** D-100
- **Batch Number:** 520-H6

Penetrant Examination Processes:
- **Type:** II (Visible) / Dwell Time: 15 Minutes
- **Method:** A (Water Wash)
- **Method of Drying:** Normal Evaporation
- **Form:** e (nonaqueous for Type II visible dye) / Dwell Time: 12 Min

Inspection Requirements:

100 % of all accessible surfaces [ ] Joint Preps [ ] Root Pass SEE NOTES [ ] Back Gouge [ ] Cover Pass [x] Other

Notes:

PT 100% of the part as-cast surfaces as well as finished machine surfaces.

PART IS REJECTED PER ASTM A903/A903M Level II for as cast surfaces

ASTM A903/A903M Level I for machined surfaces including the entire "T" section (high stress areas)

This is to certify that the pieces specified have been inspected in accordance with the specifications shown.

Inspector: 674-S.WILLIAMS **Date:** 11/25/2005 Sylvester Williams Level II

ITEM 12

COOPERHEAT MQS

4959

10520 Chester Road
Woodlawn, Ohio 45215

CLIENT	INTERPRETER/LEVEL	RADIOGRAPHER	JOB NO	P.O. NO	DATE
Major Tool + Machine	Robert Weaver/II	Robert Weaver	138550291	N/A	11/26/05

ISOTOPE/X-RAY	DIA. X LEN/KV	CURIES/MA	FOCAL SPOT SIZE	SFD	SOD	TIME	FILM PROCESSING	FILM TYPE	FILM TECHNIQUE	PH SCREENS
IR192	.118"x.106"	33	.160"	15"	14.25"	2:30	Auto	Kodak AA	Double	.010"

WELD PROCESS	MATERIAL SPEC.	MATERIAL DIAMETER	MATERIAL THICKNESS	PENETRAMETER	SHIM	ACCEPTANCE STANDARD
N/A	316.55T	N/A	.75"	ASTM 1B	N/A	No defects > .080"

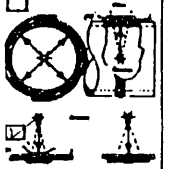
DESCRIPTION
65707/2.0/1/110/818
SC141-116 rev.6
Page 1 of 2

REMARKS
Densitometer-12105 cal due 2/2/06

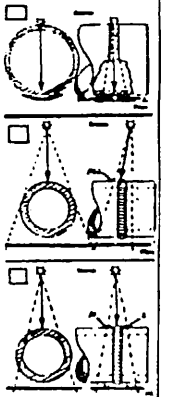
FITTING, SEAM OR FITTING	FILM INTERVAL NUMBER	WELDER IDENTIFICATION	PENETRAMETER SIZE	PENETRAMETER QUALITY LEVEL	SAG	POROSITY	POROSITY IN TAIL	CRACK	LACK OF PEN	LACK FUSION	INTERNAL CONVEXITY	INTERNAL CONCAVITY	TUNGSTEN	MELT-THROUGH	BURN-THROUGH	CRATER PIT	OXIDATION	INTERNAL UNDERCUT	EXTERNAL UNDERCUT	ALIGNED INDICATIONS	WELD CONTOUR	MIS MATCH	FILM ARTIFACT	VISUAL CONCERNS	FILM DENSITY	SEE REMARKS	ACCEPT	REJECT
Tee	0-1	N/A	1B	.016"		✓																					✓	
↓	1-2	↓	↓	↓		✓																					✓	
	2-3																										✓	
	3-4																										✓	
↓	4-5	↓	↓	↓																							✓	

End View | Side View

SINGLE WALL



DOUBLE WALL



P Penetrameter
S Shim
L Location Marker
( ) OTHER

Robert Weaver 65551/II
Cooperheat-MQS Signature

Customer Representative Signature

11/26/05
Date

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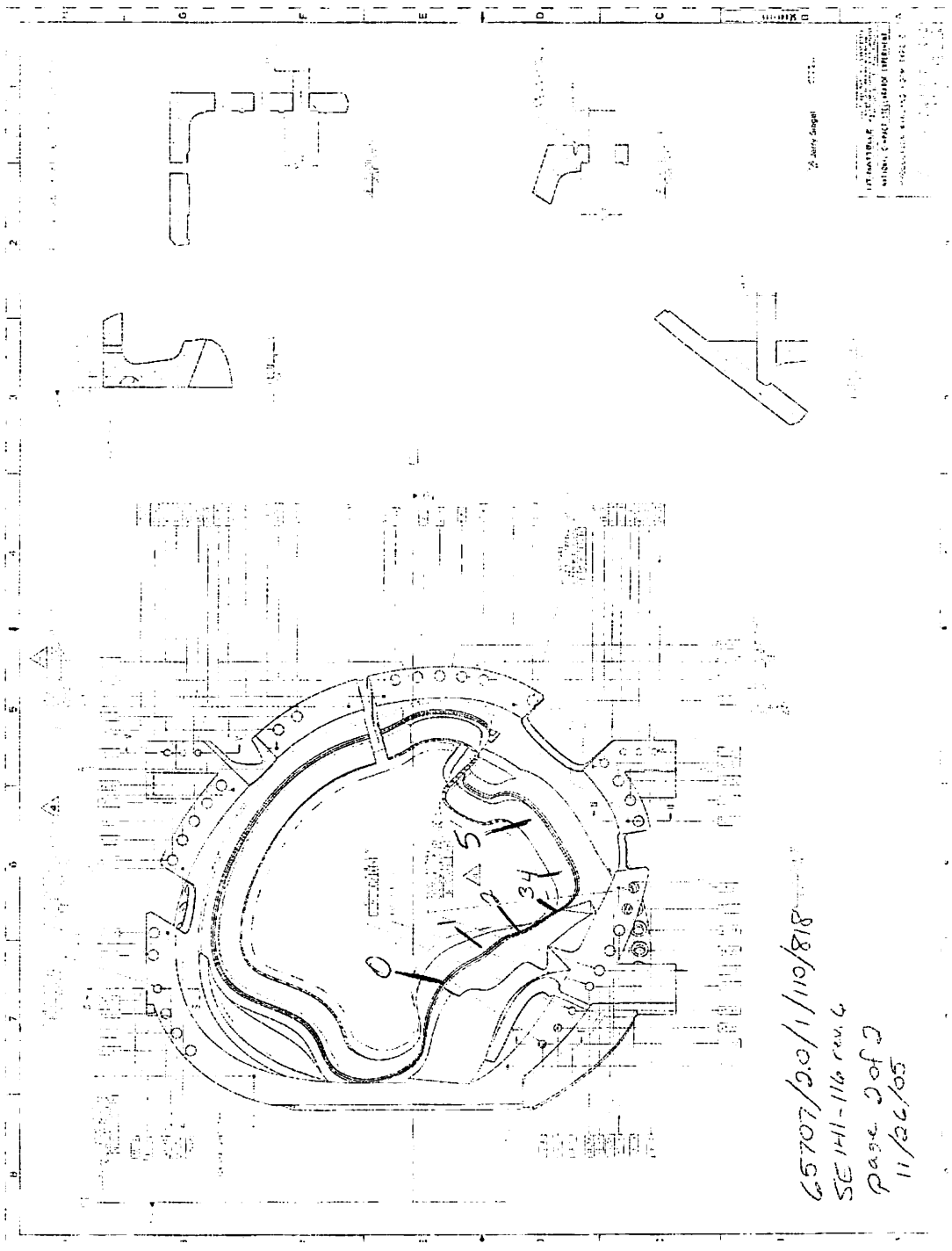


ITEM 13

Quality Assurance Documentation for Part ID: SE141-116 - Item: 13

Workorder: 65707/2-0 Sub:1 Op:121

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-116 Rev: 7			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
6* (510)	F2	▱ .02	CMM	QA		00064	.003	339-E.R 11-25-05			A
6* (520)	F2	1.125 ± .010	CMM	QA		00064	1.126 - 1.135	339-E.R 11-25-05			A
6* (530)	F2	2.250 ± .010	CMM	QA		00064	2.240 - 2.252	339-E.R 11-25-05			A
6* (540)	E2	⌖ Ø.01 F P V 7X Ø1.625 THRU BOTH SIDES	CMM	QA		00064	0.01	339-E.R 11-25-05			A

ITEM 14

Quality Assurance Documentation for Part ID: SE141-116 - Item: 14

Workorder: 65707/2-0 Sub:1 Op:134

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-116 Rev: 7			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1* (10)	E8	47.19 ± .03	CMM	QA		00064	47.178 - 47.183	339-E.R 12-07-05			A
1* (11)	G8	R17.00 +.25 -.00	CMM	QA		00064	17.035 - 17.070	339-E.R 12-07-05			A
1* (20)	B8	47.19 ± .03	CMM	QA		00064	47.187 - 47.191	339-E.R 12-07-05			A
1* (30)	D6	47.19 ± .03	CMM	QA		00064	47.192 - 47.195	339-E.R 12-07-05			A
1* (40)	C6	47.19 ± .03	CMM	QA		00064	47.186 - 47.191	339-E.R 12-07-05			A
1* (50)		// .02 A	CMM	QA		00064	.005	339-E.R 12-07-05			A
1* (60)	B6	// .02 A	CMM	QA		00064	.006	339-E.R 12-07-05			A
1* (70)	F3	⌓ .5 A B C	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			A
2* (80)	H6	2X R.187 +.025 -.005	INDICATOR	QA		J-651	.185 - .187	339-E.R 12-07-05			A
2* (90)	G8	2X .03 X 45°		QA		VISUAL	ACCEPT	339-E.R 12-12-05			A
2* (100)	G8	.40 ± .010	CALIPER	QA		J-707	0.40 - 0.41	339-E.R 12-07-05			A
2* (110)	G8	2X .030 X 45°		QA		VISUAL	ACCEPT	339-E.R 12-12-05			A
2* (120)	F7	2X .32	CALIPER	QA		J-707	.32 - .33	339-E.R 12-07-05			A
2* (130)	F7	2X R.11	RADIUS GAGE	QA		R-25	.12	339-E.R 12-07-05			A
2* (140)	G6	⌓ .1 R S T P TO M	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
2*	G6	4.790 ± .005		QA		VISUAL	ACCEPT	339-E.R			A

(150)								12-07-05			
2* (160)	G3	⌓ .1 R S T Q TO N	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
2* (170)	G3	4.790 ± .005 RECORD NUMBER USED TO IDENTIFY POINT Q		QA		VISUAL	ACCEPT	339-E.R 12-07-05			A
2* (180)	F5	⌓ .02 R S T M TO N	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
2* (185)	F5	√125 RECORD SURFACE FINISH ON BOTH L SECTIONS OF THE T (SURFACE FINISH IS NOT ON DRAWING)	PROFILOMETER	QA		J-1152	25 - 125	339-E.R 12-12-05			A
2* (190)	C5	⌖ .01 R S T 96X Ø.375-16 UNC .188 DEEP C'BORE Ø.625 AS SHOWN	CMM THREAD PLUG GA	QA		00064 A-443	.077 POSITION / ACC EPT THREAD / .624 C BORE	339-E.R 12-07-05			R
2* (200)	B4	2X .06 - .09 X 45°		QA		VISUAL	ACCEPT	339-E.R 12-07-05			A
3* (210)	G7	⌖ .01 A B C 8X Ø1-8 UNC THRU	CMM	QA		00064	.038	339-E.R 12-07-05			R
3* (230)	H3	▱ .01	CMM	QA		00064	0.020	339-E.R 12-07-05			R
3* (250)	F3	▱ .01	CMM	QA		00064	0.016	339-E.R 12-07-05			R
3* (260)	F5	R76.00	CMM	QA		00064	75.750 - 75.925	339-E.R 12-07-05			R
3* (270)	E5	R73.70	CMM	QA		00064	73.723	339-E.R 12-07-05			R
3* (280)	E4	⌖ .01 A B C 8X Ø1.13 THRU BACK SPOT FACE Ø2.38 MIN DEPTH FOR C'UP	CMM SCALE	QA		00064 J-922	.027 / 1.12 - 1.13 / ACCEPT SPOT	339-E.R 12-07-05			R
4* (290)	H8	⌖ .010 D A N 3X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM SCALE	QA		00064 J-922	.027 / 1.87 - 1.88 / ACCEPT CLEAN UP	339-E.R 12-07-05			R

4* (295)	H7	3 X SPHERICAL R.750 +.002 / -.003 TOLERANCE CHANGE PER RFD 14-009 ITEM 5. DATUM -D- FLANGE.	CMM	QA		00064	.753 / .764 / .763	339-E.R 12-12-05			R
4* (300)	H7	⌖ Ø.01 D A N 3X SPH R.75 TO .75 DEEP	CMM DEPTH MICROMET	QA		00064 J-1024	TP .020 / .74 DEEP	339-E.R 12-12-05			R
4* (310)	H6	⌖ Ø.01 D A N 17X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	0.102 / 1.87 - 1.88 / 3.00 CLEAN UP	339-E.R 12-07-05			R
4* (320)	H5	⌖ Ø.01 D A N 3X Ø1.13 Ø2.38 BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	0.041 / 1.12 - 1.13 / 3.2 CLEAN UP	339-E.R 12-07-05			R
4* (340)	E6	⌖ Ø.01 D A N 3X Ø1.375-6 UNC THRU	CMM THREAD PLUG GA	QA		00064 A-375	.038 / ACCEPT THREA DS	339-E.R 12-07-05			R
4* (350)	E6	⌖ Ø.01 D A N 5X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM CALIPER	QA		00064 J-707	.0182 / 1.87 - 1.88 / 2.98 - 2.99	339-E.R 12-07-05			R
4* (360)	D4	⌖ Ø.01 D A N Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM CALIPER	QA		00064 J-707	.0184 / 1.88 / 2.99	339-E.R 12-07-05			R
4* (370)	B5	⌖ Ø.01 D A N 3X Ø1.13 Ø2.38 BACK SPOTFACE MIN TO CLEANUP	CMM SCALE	QA		00064 J-922	.028 / 1.13 - 1.27 / 3.2 CLEAN UP	339-E.R 12-07-05			R
5* (380)	E8	⌖ Ø.01 E A J Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.015	339-E.R 12-07-05			R
5* (400)	F6	3X Ø1.375-6 UNC ↧1.25	THREAD PLUG GA	QA		A-375	ACCEPT	339-E.R 12-07-05			A
5*	F6	3 X SPHERICAL R.750 +.002 / -.003 TOLERANCE CHANGE PER	CMM	QA		00064	.758 / .752 / .750	339-E.R			A

(405)		RFD 14-009 ITEM 5. DATUM -E- FLANGE.						12-12-05			
5* (410)	F6	⌖ Ø.01 E A J 3X SPH R.75 TO .75 DEEP	CMM	QA		00064	TP .0172	339-E.R 12-12-05			R
5* (420)	F7	7X .25-20 UNC -2B	THREAD PLUG GA	QA		A-236	ACCEPT	339-E.R 12-07-05			A
5* (430)	E7	⌖ Ø.01 E A J 24X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.070 / 3.00 CLEANUP	339-E.R 12-07-05			R
5* (440)	E7	⌖ Ø.01 E A J 3X Ø1.5 TO 2.00 DEEP Ø3.00 TO 1.00 DEEP	CMM CALIPER	QA		00064 J-707	.051 / 2.99 / 1.00 DEEP	339-E.R 12-07-05			R
5* (450)	D7	3X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM CALIPER	QA		00064 J-707	1.879 - 1.881 / 3.0 0 CLEAN UP	339-E.R 12-07-05			A
5* (460)	G2	SPH R.75 TO .75 DEEP	CMM DEPTH MICROMET	QA		00064 J-1024	R .75 / .74 DEEP	339-E.R 12-07-05			A
7* (550)	G2	R7.00	CMM	QA		00064	6.99	339-E.R 12-07-05			A
7* (560)	F2	2X R1.50	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (570)	E2	2.52 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (580)	E2	90°	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (590)	E1	2.0°	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (600)	E2	2.64 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (610)	E2	6.50 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7* (620)	E2	3.06 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
7*	D2	R4.00 ± .010	CMM	QA		00064	3.90	339-E.R			R

(630)								12-12-05			
7* (640)	D3	2.10 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (650)	G7	4.00 ± .010	CMM	QA		00064	3.97	339-E.R 12-12-05			R
8* (670)	G7	R4.00 ± .010	CMM	QA		00064	3.98	339-E.R 12-12-05			R
8* (680)	F7	2.00 ± .010	CMM	QA		00064	2.00	339-E.R 12-07-05			A
8* (690)	E3	9.38 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (700)	E2	6.0°	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (710)	C2	Ø8.00 ± .010	CMM	QA		00064	7.990-8.265 (0.275 OOR)	212-J.LE 12-07-05			R
8* (720)	B3	5.9°	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (730)	B3	7.81 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (740)	C6	7.25 ± .010	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-07-05			A
8* (750)	D7	6X Ø..375-16 UNC TO .75 DEEP .03 X 45° CHAMFER	THREAD PLUG GA CALIPER	MFG		A-275 J-707	ACCEPT / 0.75 / .03 X 45	339-E.R 12-07-05			A
8* (760)	D7	13.6 °	CMM	MFG		00064	13.20	339-E.R 12-07-05			R
8* (770)	D7	5.88 ± .010		QA		VISUAL	PAD BLENDS INTO CA T SUFACE	339-E.R 12-12-05			R
8* (780)	D7	2.19 ± .010	CMM	QA		00064	2.1	339-E.R 12-12-05			R
8* (790)	D7	2.19 ± .010	CMM	QA		00064	2.17	339-E.R 12-12-05			R
8* (800)	B7	4X R.50	RADIUS GAGE	QA		R-25	BOTTOM RADII BLEN INTO CAST SURFACE	339-E.R 12-12-05			R
8* (810)	B7	3.50 ± .010	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A
8*	B7	1.75 ± .010	CMM	QA		00064	ACCEPT	212-J.LE			A

(820)								12-07-05			
8* (830)	C8	2X 1.56 ± .010 THRU	CALIPER	QA		J-707	1.558	212-J.LE 12-07-05			A
8* (840)	C8	3.75 ± .010	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A
8* (850)	C8	2X 7.50 ± .010 THRU	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A
8* (860)	C8	8X R.25	RADIUS GAGE	QA		R-25	0.260	212-J.LE 12-07-05			A
8* (870)	C8	2X 2.52 ± .010	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A
8* (880)	E2	Ø8.00 ± .010	CALIPER	QA		J-707	7.980-8.265 0.075 O OR	212-J.LE 12-07-05			R
9* (900)	E7	2.54 ± .010	CALIPER	QA		J-707	2.54	212-J.LE 12-07-05			A
9* (910)	E7	5.08 ± .010	CALIPER	QA		J-707	5.08	212-J.LE 12-07-05			A
9* (920)	F3	4X Ø1.0 THRU	CALIPER	QA		J-707	.999 - 1.004	212-J.LE 12-07-05			A
9* (930)	F3	2X Ø .50 ± .010 THRU	CALIPER	MFG		J-707	.500 - .502	321-C.L 12-07-05			A
9* (940)	E3	2.44 ± .010	CALIPER	QA		J-707	2.450	212-J.LE 12-07-05			A
9* (950)	E3	1.22 ± .010	CALIPER	QA		J-707	1.22	212-J.LE 12-07-05			A
9* (960)	C7	4X Ø1.0 THRU	CALIPER	QA		J-707	1.003-1.016	339-E.R 12-12-05			A
9* (970)	C6	2X Ø.25 T.C. HOLE TO 2.5 DEEP	CALIPER	QA		J-707	0.25	339-E.R 12-12-05			A
10* (980)	C8	⌓ .125 A B C	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			A
10* (990)	D6	⌓ .5 A B C	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
10* (1000)	C5	⌓ .02 R T S	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
10* (1010)	C4	⌓ .125 A B C	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			A

10* (1020)	G1	⌓ .02 R T S	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
10* (1030)	E1	⌓ .5 A B C	CMM	QA		00064	REFERENCE IGES DAT	339-E.R 12-12-05			R
Drawing ID: NCSX-CSPEC-141-03 Rev: 10			**INSPECTION INSTRUCTIONS**			**RESULTS**		**INSPECTED BY**			
SHEET	**ZONE**	**CHARACTERISTIC**	**GAGE/EQUIP**	**BY**	**SAMPLE**	**SER#**	**DATA/REMARKS**	**INSP**	**VERFD**	**AUDIT**	
4* (1040)	3.1.1.	UOS ALL MACHINED SURFACES TO BE 250 RMS SURFACE FINISH RECORD RANGE	PROFILOMETER	QA		J-1152	85 - 230	339-E.R 12-07-05			A
Drawing ID: SE141-116 Rev: 7			**INSPECTION INSTRUCTIONS**			**RESULTS**		**INSPECTED BY**			
SHEET	**ZONE**	**CHARACTERISTIC**	**GAGE/EQUIP**	**BY**	**SAMPLE**	**SER#**	**DATA/REMARKS**	**INSP**	**VERFD**	**AUDIT**	
1* (1050)		RECORD THE WEIGHT OF THE PART 6000LBS MAX		QA			5080 LBS	840-G.M 12-12-05			A
4* (1060)	H7	22.13 ± .010	CMM	QA		00064	22.12	212-J.LE 12-07-05			A
4* (1070)	H7	47.79 ± .010	CMM	QA		00064	47.776	212-J.LE 12-07-05			R
4* (1080)	H6	59.18 ± .010	CMM	QA		00064	59.176	212-J.LE 12-07-05			A
4* (1090)	H6	73.27 ± .010	CMM	QA		00064	73.265	212-J.LE 12-07-05			A
4* (1100)	H5	80.49	CMM	QA		00064	80.469	212-J.LE 12-07-05			R
4* (1110)	H5	87.87 ± .010	CMM	QA		00064	87.838	212-J.LE 12-07-05			R
4* (1120)	H5	89.64 ± .010	CMM	QA		00064	89.584	339-E.R 12-12-05			R
4* (1130)	G4	31.83 ± .010	CMM	QA		00064	31.827	212-J.LE 12-07-05			A
4* (1140)	F4	24.10 ± .010	CMM	QA		00064	24.097	212-J.LE 12-07-05			A
4* (1150)	F4	11.48 ± .010	CMM	QA		00064	11.463	339-E.R 12-12-05			R
4*	E4	5.20 ± .010	CMM	QA		00064	5.201	212-J.LE			A

(1160)								12-07-05			
4* (1170)	D4	18.31 ± .010	CMM	QA		00064	18.307	212-J.LE 12-07-05			A
4* (1180)	D4	32.50 ± .010	CMM	QA		00064	32.493	212-J.LE 12-07-05			A
4* (1190)	C5	77.13 ± .010	CMM	QA		00064	77.128	212-J.LE 12-07-05			A
4* (1200)	C6	55.56 ± .010	CMM	QA		00064	55.556	212-J.LE 12-07-05			A
4* (1210)	B7	23.74 ± .010	CMM	QA		00064	23.742	212-J.LE 12-07-05			A
4* (1220)	C7	37.09 ± .010	CMM	QA		00064	37.087	212-J.LE 12-07-05			A
4* (1230)	D8	17.22 ± .010	CMM	QA		00064	17.220	212-J.LE 12-07-05			A
4* (1240)	F8	28.17 ± .010	CMM	QA		00064	28.171	212-J.LE 12-07-05			A
4* (1250)	G8	12X .250-20 UNC-2B	THREAD PLUG GA	QA		A-375	ACCEPT	212-J.LE 12-07-05			A
4* (1260)	G8	40.75 ± .010	CMM	QA		00064	40.753	212-J.LE 12-07-05			A
4* (1270)	G8	43.42 ± .010	CMM	QA		00064	43.422	212-J.LE 12-07-05			A
4* (1280)	D1	12X .25-20 UNC Ø.5 X 82° INCL. CHAMFER	THREAD PLUG GA	QA		A-236	ACCEPT SEE STEP 125 0	212-J.LE 12-07-05			A
5* (1290)	H8	88.39 ± .010	CMM	QA		00064	88.371	212-J.LE 12-07-05			R
5* (1300)	H7	86.42 ± .010	CMM	QA		00064	86.422	212-J.LE 12-07-05			A
5* (1310)	H6	59.08 ± .010	CMM	QA		00064	59.088	212-J.LE 12-07-05			A
5* (1320)	H5	28.71 ± .010	CMM	QA		00064	28.721	212-J.LE 12-07-05			R
5* (1330)	G5	32.42 ± .010	CMM	QA		00064	32.424	212-J.LE 12-07-05			A
5*	D4	22.117 ± .005	CMM	QA		00064	22.109	212-J.LE			R

(1340)								12-07-05			
5* (1350)	D4	38.14 ± .010	CMM	QA		00064	38.152	212-J.LE 12-07-05			R
5* (1360)	D5	21.33 ± .010	CMM	QA		00064	21.338	212-J.LE 12-07-05			A
5* (1370)	D7	87.62 ± .010	CMM	QA		00064	87.617	212-J.LE 12-07-05			A
5* (1380)	E8	7.53 ± .010	CMM	QA		00064	7.555	212-J.LE 12-07-05			R
5* (1390)	E8	4.91 ± .010	CMM	QA		00064	4.879	212-J.LE 12-07-05			R
5* (1400)	G8	36.13 ± .010	CMM	QA		00064	36.120	212-J.LE 12-07-05			A
7* (1410)	D4	2.1°	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A
8* (1420)	D8	2.63 ± .010	CMM	QA		00064	ACCEPT	212-J.LE 12-07-05			A

Major Tool and Machine, Inc. 1458 East 19th Street, Indianapolis, IN 46218 (317)636-6433 Fax (317)634-9420

ITEM 15

INSPECTION DATA CHECKLIST

Date: 12/13/05
User ID: GRIFFITH

Workorder: 65707/2-0 Sub:1 Op:140

Revision: 12/12/05 14:15

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-103 Rev: 2			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		INSPECT AND RECORD RESISTANCE ACROSS BOLT INSUL.		QA			110 MEGA OHMS	840-G.M			A
(10)		VALUE TO BE >500 kOHM'S						12-12-05			*
*		INSPECT AND RECORD RANGE OF RESISTANCE ACROSS POLOIDAL BREAK MIDPLANE AND BOLTS		QA			110 MEGA OHMS	840-G.M			A
(20)		VALUE TO BE >500 kOHM'S						12-12-05			*

Employees: 840-G.Masood

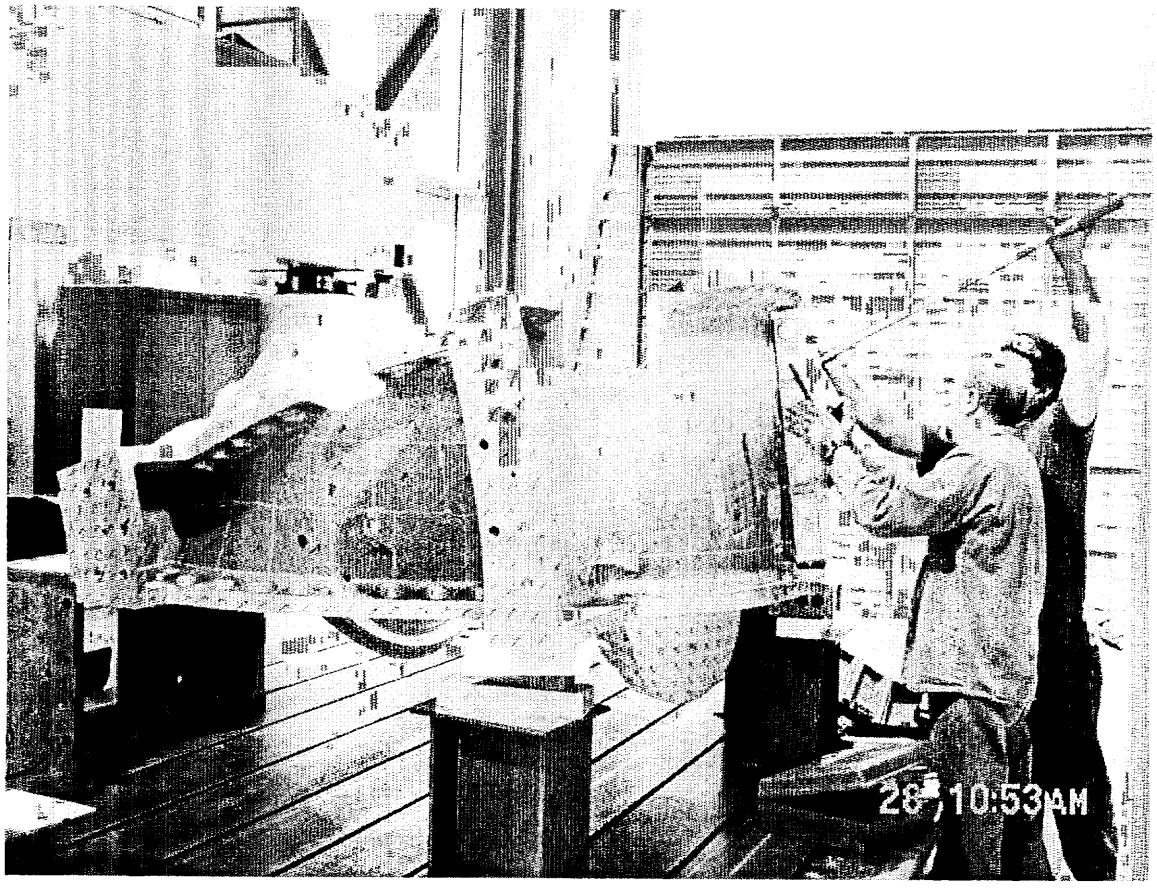
* To Far Right Indicates Data Package Requirement

NOTE: 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.

Major Tool and Machine, Inc. 1458 East 19th Street, Indianapolis, IN 46218 (317)636-6433 Fax (317)634-9420

ITEM 16

mc114463.JPG (1024x768x16M jpeg)



ITEM 17

INSPECTION DATA CHECKLIST

Date: 12/13/05
User ID: GRIFFITH

Workorder: 65707/2-0 Sub:14 Op:10

Revision:

Part: SE141-116 - -

Drawing ID: SE141-116 Rev: 7			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
* (10)		RECORD RANGE UPPER AND LOWER LIMITS OF MAG PERMEABILITY READI (Mu) FOR THE AS CAST SURFACES	MASTER GAGE	QA		J-1270	ALL CAST SURFACES C HECK LESS THAN 1.02	854-R.U 11-27-05			A *
* (20)		RECORD RANGE UPPER AND LOWER LIMITS OF MAG PERMEABILITY READI (Mu) FOR THE MACHINED SURFACES	MASTER GAGE	QA		J-1270	< 1.02	854-R.U 12-12-05			A *
* (30)		MAG PERMEABILITY WAS PERFOMED USING A 6" X 6" GRID ON ALL CAST SURFACES AND A 2"X2" GRID ON ALL MACHINED SURFACES. PICTURES OF GRID HAVE BEEN SUPPLIED.	MASTER GAGE	QA		J-1270	< 1.02	854-R.U 12-12-05			A *

Employees: 854-R.Upchurch

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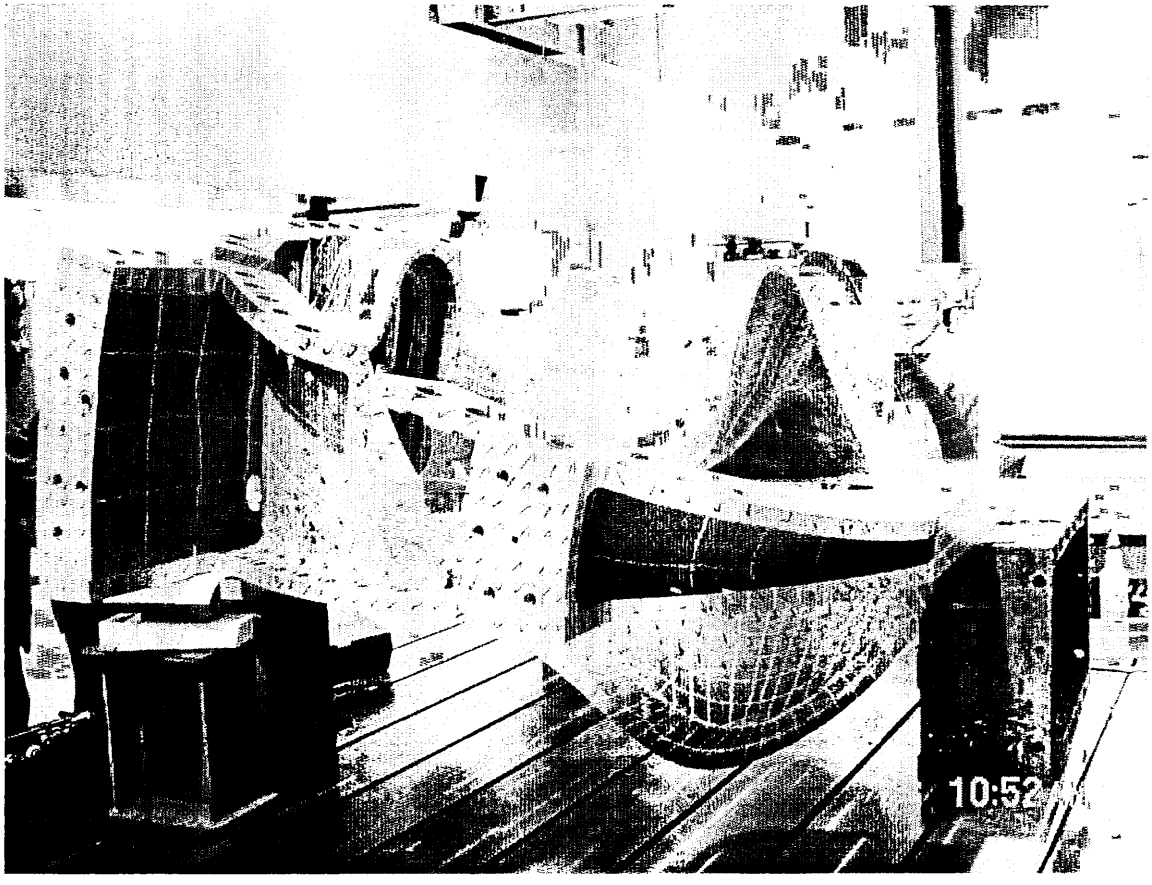
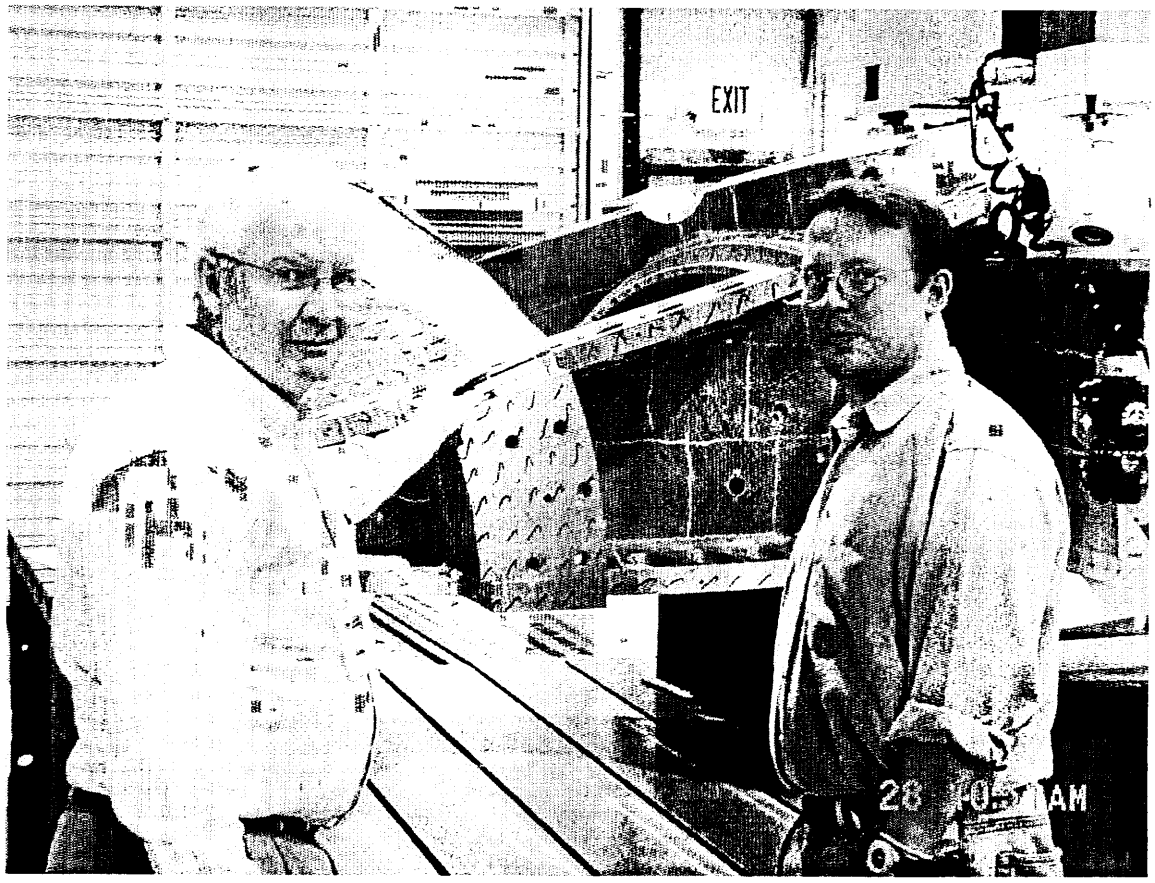
ITEM 18

mc114462.JPG (1024x768x16M jpeg)



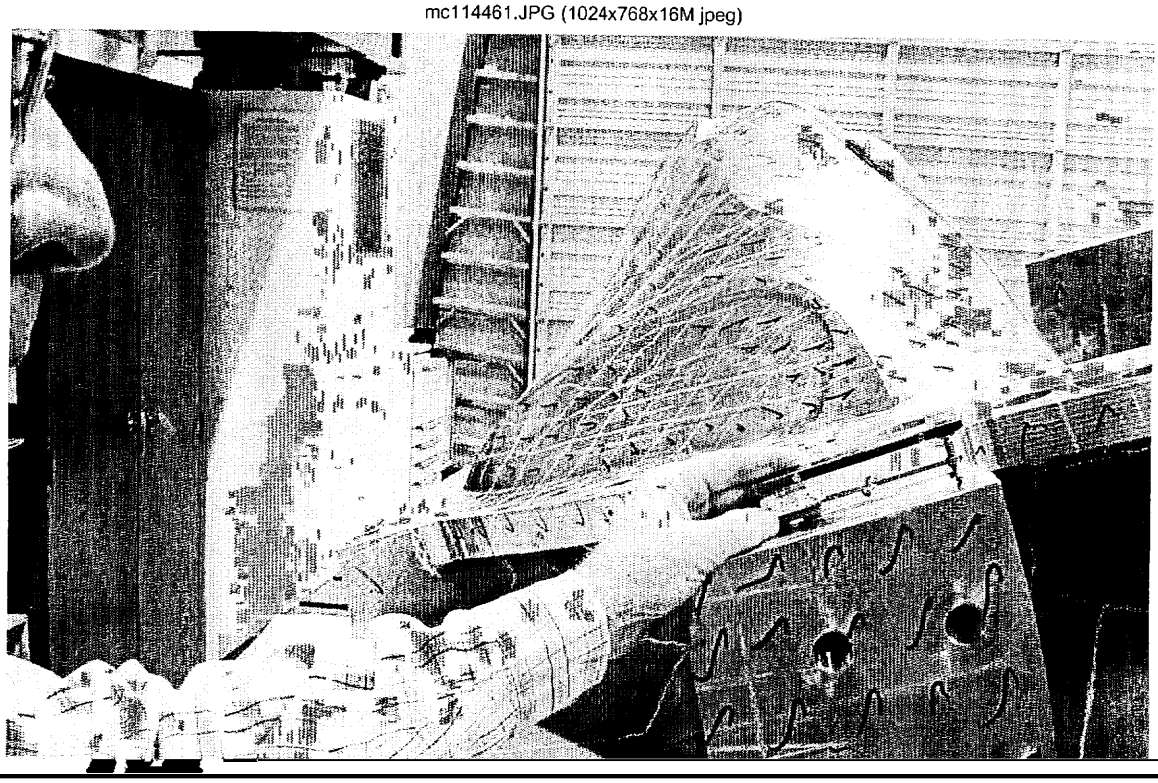
ITEM 19

mc114460.JPG (1024x768x16M jpeg)



ITEM 20

mc114461.JPG (1024x768x16M jpeg)



ITEM 22

mc113978.TIF (1721x2188x2 tiff)

CERTIFICATE OF TEST

Certification Date
21-NOV-2005

CUSTOMER ORDER NUMBER
P05-06516

CUSTOMER PART NUMBER
522335

EARLE M. JORGENSEN COMPANY
2301 AIRWEST BLVD
PLAINFIELD IN 46168

Invoice Number
T474338

SOLD TO: MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN 46218

SHIP TO: MAJOR TOOL & MACHINE INC
29267
1458 EAST 19TH STREET
INDIANAPOLIS IN 46218

Description: 316/316L HRAP BAR
1 X 3 X 12' R/L
HEAT: M11443

ASTM A479
Line Total: 135 LB

ITEM: 522335

Specifications:

ASTM A479 03	ASTM A276 03	ASME SA479 01
QQ S 763 98	AMS 5648 K02	AMS 5653 F02
AS TM A4	AMS QQ S 763 98	ASTM A182 03
ASTM A193 03	SATM A322 03	ASME SB182 00B

CHEMICAL ANALYSIS

C	SI	MN	P	S	CR	MO	NI
0.03	0.57	1.25	0.037	0.024	16.84	2.0	10.63

V	W	CO	TI	AL	NB	N	CU
0.03	0.07	0.057	3.05	0.059	0.01	0.04	0.27

RCPT: R534135
MILL : AMS SPECIALTY STEEL

COUNTRY OF ORIGIN : AUSTRIA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	58.0	91.0	44.0	71.0	194

GRAIN SIZE :10

MTM 016 NOV 28 2005

102844 NOV 2005 Line 1

NOV 21 2005

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

DAMIAN GURRI

MANAGER, QUALITY ASSURANCE

CERTIFICATE OF TEST

Certification Date
21-NOV-2005

CUSTOMER ORDER NUMBER
P05-06516

CUSTOMER PART NUMBER
522335

EARLE M. JORGENSEN COMPANY
2301 AIRWEST BLVD
PLAINFIELD IN 46168

Invoice Number
T474338

SOLD TO: MAJOR TOOL & MACHINE INC
1458 E 19TH ST
INDIANAPOLIS IN 46218

SHIP TO: MAJOR TOOL & MACHINE INC
29267
1458 EAST 19TH STREET
INDIANAPOLIS IN 46218

Description: 316/316L HRAP BAR ASTM A479
1 X 3 X 12' R/L Line Total: 135 LB
HEAT: M11443 ITEM: 522335

THERMAL TREATMENT: OK
HT TRT QUENCHED 1040 DEG C 30 MIN WATER
CORROSION: OK
MACRO: OK
MICRO1: OK

MTM 016

NOV 2 8 2005

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

DAMIAN GURRI

MANAGER, QUALITY ASSURANCE

ITEM 23

INSPECTION DATA CHECKLIST

Date: 12/13/05
User ID: GRIFFITH

Workorder: 65707/2-0 Sub:12 Op:40

Revision: 11/14/05 15:16

Part: SE141-116 - -

Drawing ID: SE141-137 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1*	G2	VERIFY MAGNETIC PERMEABILITY IS LESS THAN 1.02μ PER DRAWING NOTE 5.	MASTER GAGE	QA		J-1270	BETWEEN 1.02 AND 1.03	503-B.H			R
(10)								11-23-05			*

Employees: 503-B.Houk

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Major Tool and Machine, Inc. 1458 East 19th Street, Indianapolis, IN 46218 (317)636-6433 Fax (317)634-9420

ITEM 25

INSPECTION DATA CHECKLIST

Date: 12/13/05
User ID: GRIFFITH

Workorder: 65707/2-0 Sub:13 Op:40

Revision: 11/14/05 15:18

Part: SE141-116 - -

Drawing ID: SE141-138 Rev: 0			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY			
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
1*	G2		MASTER GAGE	QA		J-1270	GREATER THAN 1.02 A	854-R.U			R
		VERIFY MAGNETIC PERMEABILITY IS					ND LESS THAN 1.05				
		LESS THAN 1.02μ PER DRAWING									
(10)		NOTE 5.						12-07-05			*

Employees: 854-R.Upchurch

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