

May 24, 2006

MetalTek International
The Carondelet Division
8600 Commercial Blvd.
L-55 Industrial Park
Pewee, MO 63070-1528

Attention: Jim Galaske

Subject: All processes, performed upon the material as received, were conducted at WMT&R, Inc. in accordance with the WMT&R Quality Assurance Manual, Rev. 9, dated 4/1/2000.
The following tests were performed on this order: TENSILE

TENSILE RESULTS: ASTM E21-05

Requirements: UTS ksi (Min 95Max ---) 0.2% YS ksi (Min 72Max ---) 4D Elong. % (Min 32Max ---) Modulus Msi (Min 21Max ---)
SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.003 in./in./min., 0.05 in./min./in.

MATERIAL: Metaltek CF8MMNM0D

Coil No.	Specimen	Test Log Number	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Ult. Load lbf	0.2% YLD. lbf	Orig. Dia. (in.)	Final Dia. (in.)	4D Orig GL (in.)	4D Final GL (in.)	Orig. Area (sq. in.)	Machine Number	AUVR
B5	Z1	D60142	-320	166.2	98.0	61	49	25.2	16270	9597	0.3531	0.2515	1.40	2.26	0.09792314	M9	A
B5	Z2	D60143	-320	185.2	112.6	59	41	31.6	17810	10830	0.3499	0.2880	1.40	2.23	0.09615630	M9	A
B5	Z3	D60144	-320	181.2	111.6	49	37	31.2	17470	10760	0.3504	0.2777	1.40	2.08	0.09643131	M9	A

AUVR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT

Customer supplied requirements.

CERTIFICATION

Westmoreland Mechanical Testing & Research, Inc.
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Westmoreland Drive
Youngstown, Pa. 15696-0388 U.S.A.
Telephone: 724-537-3131 Fax: 724-537-3151
Website: www.wmttr.com
WMT&R is a technical leader in the material testing industry.

Section 1 of 1
WMT&R Report No. 6-29516
P.O. No. 19386
Requisition No. 6848



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Testing Specialists for Aerospace, Automotive, and Material Testing Fields
Locations in Youngstown, PA U.S.A. ~ Tel (724) 537-3131 and
Banbury U.K. ~ Tel +44 (0) 1295 261211

Roy E. Stark
Technical Services Manager
Tensile Supervisor
May 24, 2006
5-24-6

2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085
 Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

METALTEK INTERNATIONAL

8600 Commercial Blvd.

Pevely, MO 63070

May 10, 2006

Lab No. 06P-1618

P.O. No. 21324

Page 1 of 3

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B5 COIL- Z1, Z2, Z3

SPECIFICATION: ASTM A 370-03a

SPECIMEN TYPE: "A" Vee Notch

SPECIMEN SIZE: 10 mm x 10 mm

TEMPERATURE OF TEST: 77°K

REQUIREMENTS: 35 ft / lbs min

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-7	65	0.038	30
Z1-8	81	0.049	30
Z1-9	71	0.041	30
Average	72	0.043	30
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-7	77	0.040	30
Z2-8	80	0.048	30
Z2-9	79	0.047	30
Average	79	0.045	30
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-7	69	0.035	30
Z3-8	75	0.038	30
Z3-9	74	0.038	30
Average	73	0.037	30

Identification of tested specimen provided by client.


 Karl Schmitz, Director
 Materials Testing



Certificate No. 0397-01
 Certificate No. 0397-02

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May 10, 2006
 Lab No. 06P-1618
 P.O. No. 21324
 Page 2 of 3


Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B5 COIL- Z1, Z2, Z3
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K
REQUIREMENTS: 50 ft / lbs min

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-7	112	0.076	60
Z1-8	108	0.075	60
Z1-9	115	0.084	60
Average	112	0.078	60
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-7	110	0.080	60
Z2-8	120	0.082	60
Z2-9	108	0.070	60
Average	113	0.077	60
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-7	120	0.080	60
Z3-8	125	0.082	60
Z3-9	114	0.075	60
Average	120	0.079	60

Identification of tested specimen provided by client.


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May 10, 2006
 Lab No. 06P-1618
 P.O. No. 21324
 Page 3 of 3

Attention: Chuck Ruud

REPORT OF MECHANICAL TESTS

SAMPLE ID: B5 COIL- Z1, Z2, Z3

Sample ID	Original Area Sq. Inches	Reduced Area Sq. Inches	Reduction in Area %	Modulus of Elasticity	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)	
							in.	%
Z1	0.1979	0.1257	36.5	22.2	41800	84800	0.90	45.0
Z2	0.1964	0.1314	33.1	23.1	44100	85100	0.88	44.0
Z3	0.1971	0.1333	32.4	22.5	42300	82400	0.90	45.0

Round, reduced section tensiles

Yield taken at .2% offset

Tested in accordance with ASTM A 370-03a

Identification of tested specimens provided by the client.

KS/tlv


 Karl Schmitz, Director
 Materials Testing



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PRODUCT CONFORMANCE REPORT



Product
Class.

LNM 4455
EN 12072-99 G 20 16 3 Min L

Size(s) mm
Lot/Batch
Item No.

1,2
3018513/78308
692129

Customer

EUROWELD
MOORESVILLE N.C. 28117
UNITED STATES

Quantity 105,0 KG
Customer ref. P.O. 05-46
LSW Order No. SD427896

Chemical analysis (%)

EN10204 2.2

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
0,01	0,5	7,3	0,015	0,001	20,3	15,4	2,9	0,1	0,19

Mechanical tests, all weld metal

EN10204 2.2

Tensile testing

Impact testing

Cond.	Temp. °C	Rp0.2 N/mm2	Rm N/mm2	A5 %	Cond.	Temp.1 °C	Av1 J
AW	RT	407	623	41	AW	-196	67

Additional information

EN10204 2.2

Other tests

Remarks

Impact testing (individual values): 70J - 65J - 67J.

The product identified above has been manufactured, tested and supplied in compliance with a Quality Assurance Programme that fulfils the requirements of EN 29000/ISO 9000/BS 5750 or similar standard.

We herewith certify that the product complies with the above-mentioned standards.

Certified ISO 9001:2000.

Company

Lincoln Smitweld B.V.

Registered Office

Nieuwe Dukenburgseweg 20
6534 AD NIMEGEM

Post address

P.O. Box 253
6500 AG Nijmegen

Issued by

P. Nagels

Telephone

31 24 3522911

Function

QA Administrator 22/03/2005

Fax:

31 24 3522200

Date

Cert.No.

3018513/7830

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METALTEK INTERNATIONAL
8600 Commercial Blvd.
Pevely, MO 63070

August 16, 2005
Lab No. 05P-2532
P.O. No. 21324
Page 1 of 2

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

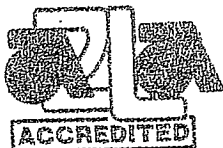
MATERIAL (SAMPLE ID): LNM 4455, LINCOLN LOT 3018513/78308
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
LNM4455-7	104	0.085	100
LNM4455-8	106	0.093	100
LNM4455-9	99	0.084	100
Average	103	0.087	100

Identification of tested specimen provided by client.

KS/tlv

Karl Schmitz
Karl Schmitz, Director
Materials Testing



Certificate No. 0397-01
Certificate No. 0397-02

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August 16, 2005
Lab No. 05P-2532
P.O. No. 21324
Page 2 of 2

Attention: CHUCK RUUD

REPORT OF MECHANICAL TESTS

SAMPLE ID: LNM 4455, LINCOLN LOT 3018513/78308

Sample ID	Original Area	Reduced Area	Reduction in Area %	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)		Modules of Elasticity
	Sq. Inches	Sq. Inches				in.	%	
LNM4455	0.1932	0.0866	55.2	65200	95200	0.76	38.0	23.4

Round, reduced section tensiles

Yield taken at .2% offset

Tested in accordance with ASTM A 370-03a

Identification of tested specimens provided by the client.

KS/tlv

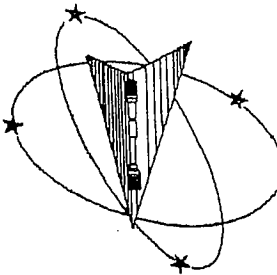
Karl Schmitz
Karl Schmitz, Director
Materials Testing



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October 18, 2005

Metaltek International
The Carondelet Division
8600 Commercial Blvd.
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Pewee, MO 63070-1528

Attention: Jim Galaske

Subject:

All processes, performed upon the material as received, were conducted at WMT&R, Inc. in accordance with the WMT&R Quality Assurance Manual, Rev. 9, dated 4/1/2000.
The following tests were performed on this order: TENSILE

TENSILE RESULTS: ASTM E21-03a

SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.0030 in./in./min., 0.0500 in./in./min.

MATERIAL: METALTEK CF8MNMNMOD

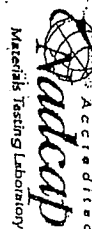
Specimen ID	Test Log Number	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Ult. Load lbf	0.2% YLD. lbf	Orig. Dia. (in.)	Final Dia. (in.)	4D Orig. GL (in.)	4D Final GL (in.)	Orig. Area (sq. in.)	Machine Number	AIUR R
3018513/78308	C54936	-320	184.9	123.7	33	33	32.8	18470	12350	0.3566	0.2926	1.40	1.86	0.09987403	M9	R

AIUR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT

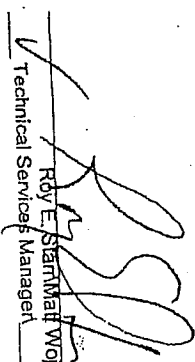
DISPOSITION: Report

Westmoreland Mechanical Testing & Research, Inc.
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Website: www.wmt.com
WMT&R is a technical leader in the material testing industry.

CERTIFICATION



Section 1 of 1
WMT&R Report No. 5-35979
Requisition No. 4972


Roy E. Starnoff
Technical Services Manager

October 18, 2005

10-18-05

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14:29 OCT 18, 2005



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8600 Commercial Blvd.
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October 5, 2005
Lab No. 05P-3096
P.O. No. 21324
Page 1 of 1

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

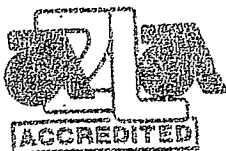
MATERIAL (SAMPLE ID): WELD PLATE- 3018513 / 78308
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: -320°F
REQUIREMENTS: minimum 35 ft / lbs.

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
3018513/78308-1	48	0.033	50
3018513/78308-2	65	0.045	50
3018513/78308-3	48	0.033	50
Average	54	0.037	50

Identification of tested specimen provided by client.

KS/tlv


Karl Schmitz, Director
Materials Testing



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Certificate No. 0397-02

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