

April 19, 2006

CERTIFICATION

Westmoreland Mechanical Testing & Research, Inc.
 P.O. Box 388
 Westmoreland Drive
 Youngstown, Pa. 15696-0388 U.S.A.
 Telephone: 724-537-3131 Fax: 724-537-3151
 Website: www.wmttr.com
 WMTTR is a technical leader in the material testing industry.

Section 1 of 1
 WMTTR Report No. 6-27410
 P.O. No. 19386
 Requisition No. 7580



621-01 & 621-02



Materials Testing Laboratory

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

Attention: Jim Galaske

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

MATERIAL: Metaltek CF8MNMHMO

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	AIUR
A6	Z1	D43605	-320	167.3	95.8	84	65	25.8	16150	9252	0.3506	0.2082	1.40	2.30	0.09654142	M9	A
A6	Z2	D43606	-320	167.1	97.0	54	80	24.8	16180	9394	0.3511	0.1585	1.40	2.15	0.08681698	M9	A
A6	Z3	D43607	-320	189.4	116.2	51	44	31.7	18300	11220	0.3507	0.2620	1.40	2.12	0.09659650	M9	A

DISPOSITION: Acceptable

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

Requirements provided by MetalTek International

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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

Matthew S. J. J.
 Rev E. StartMatt Wojcik
 Technical Services Manager
 Tensile Supervisor

April 19, 2006

4-19-06

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

March 13, 2006
Lab No. 06P-0711
P.O. No. 21324
Page 1 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z1 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K / +70°F


BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-1	130	0.124	100
Z1-2	116	0.106	100
Z1-3	108	0.067	80
Average	118	0.099	93



3/13/06

Identification of tested specimen provided by client.

KS/tlv


Karl Schmitz, Director
Materials Testing



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

AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST.
NOT OFFICIAL WITHOUT THE RAISED SEAL OF ST. LOUIS TESTING LABORATORIES, INC.
SEE REVERSE FOR CONDITIONS.



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March 13, 2006
Lab No. 06P-0711
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Page 2 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z1 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K / -320°F


BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-4	51	0.021	40
Z1-5	76	0.049	40
Z1-6	67	0.026	40
Average	65	0.032	40



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March 13, 2006
Lab No. 06P-0711
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Page 3 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z2 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K / +70°F

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-1	156	0.105	100
Z2-2	128	0.096	100
Z2-3	138	0.122	100
Average	141	0.108	100

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Page 4 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z2 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K / -320°F

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-4	87	0.053	50
Z2-5	80	0.057	50
Z2-6	75	0.033	40
Average	81	0.048	47

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March 13, 2006
Lab No. 06P-0711
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Page 5 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z3 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K / +70°F

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-1	116	0.085	100
Z3-2	126	0.105	100
Z3-3	120	0.081	90
Average	121	0.090	97

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March 13, 2006
Lab No. 06P-0711
P.O. No. 21324
Page 6 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Z3 COIL A6
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K / -320°F

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-4	74	0.050	40
Z3-5	72	0.037	40
Z3-6	72	0.038	40
Average	73	0.042	40

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March 13, 2006
Lab No. 06P-0711
P.O. No. 21324
Page 7 of 7

Attention: Chuck Ruud

REPORT OF MECHANICAL TESTS

SAMPLE ID: Z1, Z2, Z3 COIL A6

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	0.1886	0.1195	36.7	23.1	46100	90700	1.03	51.5
Z2	0.1893	0.1035	45.3	21.8	40900	85800	1.15	57.5
Z3	0.1901	0.1250	34.2	22.8	46600	91000	0.76	38.0

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.

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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 NIJMEGEN

Post address

P.O. Box 253
6500 AG Nijmegen

Issued by

P. Nagels

Telephone

31 24 3522911

Function

QA Administrator

Fax:

31 24 3522200

Date

22/03/2005

Cert.No.

3018513/7830

2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085
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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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8600 Commercial Blvd.
Pevely, MO 63070

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 Sq. Inches	Reduced Area Sq. Inches	Reduction in Area %	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)		Modules of Elasticity
						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

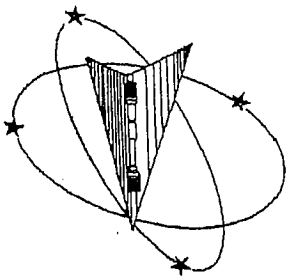
*Karl Schmitz, Director
Materials Testing*



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

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October 18, 2005

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Westmoreland Drive
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Telephone: 724-537-3131 Fax: 724-537-3151
Website: www.wmtr.com
WMTR is a technical leader in the material testing industry.

CERTIFICATION

Section 1 of 1
WMTR Report No. 535979
Requisition No. 4972



Metaltek International
The Carondelet Division
8600 Commercial Blvd.
1-55 Industrial Park
Peevly, MO 63070-1528

Attention: Jim Galaske

Subject: All processes, performed upon the material as received, were conducted at WMTR, Inc. in accordance with the WMTR 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

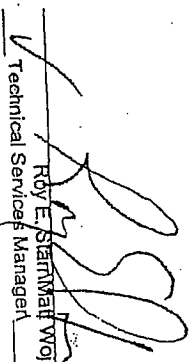
SPEED OF TESTING: 0.0030 in./in./min., 0.0500 in./min./in.

MATERIAL: METALTEK CF8MMNMMOD

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
3018513/78308	CS4936	-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


Roy E. Starnatt Wojton
Technical Services Manager Tensile Supervisor

October 18, 2005

10-18-05

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14:29 OCT 18, 2005



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Pevely, MO 63070

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.

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