

Westmoreland Mechanical Testing & Research, Inc.

P.O. Box 388

Westmoreland Drive

Youngstown, Pa. 15696-0388 U.S.A.

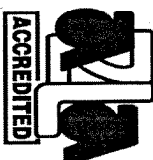
Telephone: 724-537-3131

Fax: 724-537-3151

Website: www.wmtr.com

WMTR is a technical leader in the material testing industry.

621-01 & 621-02



Accredited
Nadcap
Materials Testing Laboratory

April 22, 2005

CERTIFICATION

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

Corrected Date
May 4, 2005

Page IM1 of 1
WMTR Report No. 5-25008
P.O. No. P05-01764
PQR No. 434
Welder Jason Bever #465

Attention: Josh Mayne

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: IMPACT and TENSILE

IMPACT RESULTS: ASME Section IX and AWS B2.1, ASTM E23-02

No Requirements

MATERIAL: Metatek CF8MMNM MOD

SAMPLE TYPE: Charpy V-Notch

DISPOSITION: Report

Specimen ID	Testlog Number	Sample Size	Temp. °F/°C	Energy ft-lbs	Energy joules	Mils Lat Exp	AIUR
Weld-1	B65835	Standard	68/20	173	234.6	84	Report
Weld-2	B65836	Standard	68/20	160	216.9	68	Report
Weld-3	B65837	Standard	68/20	157	212.9	81	Report

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

KNOWINGLY OR WILLFULLY FALSIFYING OR CONCEALING A MATERIAL FACT ON THIS FORM OR MAKING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS HEREIN COULD CONSTITUTE A FELONY PUNISHABLE UNDER FEDERAL STATUTES. THIS CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF WMTR, INC.

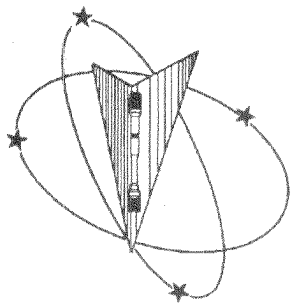
Richard G. Parks
Project Manager/Industrial Technology Engineer

May 4, 2005

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



April 20, 2005

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

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Website: www.wmttr.com
WMTTR is a technical leader in the material testing industry.

Section 1 of 2

WMT&R Report No. 5-25008

P.O. No. P05-01764

PQR No. 434

Welder Jason Bever #465



621-01 & 621-02



Attention: Josh Mayne

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: IMPACT and TENSILE

TENSILE RESULTS: ASME Section IX and AWS B2.1, ASTM E21-03a

SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.0050 in./in./min., 0.0500 in./min./in.

MATERIAL: Metrolite ER316Mnrf

DISPOSITION: Report

Specimen ID	Testlog Number	Temp. °F/°C	UTS KSI/MPA	0.2% YS KSI/MPA	Elong %	RA %	Modulus MSI/GPA	Ult. Load LBS/NEWTONS	0.2% YLD. LBS/NEWTONS
T1	B65833	-320/-196	191.8/1320	148.7/1030	27	39	28.7/198	2630/11699	2039/9071

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DISPOSITION: Report

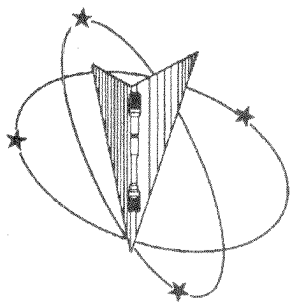
Specimen ID	Testlog Number	Orig. Width (in./mm)	Final Width (in./mm)	Orig. Thick (in./mm)	Final Thick (in./mm)	Orig. Dia. (in./mm)	4D Orig GL (in./mm)	4D Final GL (in./mm)	Orig. Area (Sq. In./Sq. mm)	Failure Location/Type	Machine Number	A/U/R
T1	B65833	0.1802/4.57708	0.1437/3.650	0.0761/1.933	0.0582/1.478	0.251/6.378	0.70/17.78	0.89/22.61	0.04183816/26.892307	WELD/DUCTILE	M9	R

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Roy E. Starr/Matt Wojton
Technical Services Manager/ Tensile Supervisor
April 20, 2005

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WMTR is a technical leader in the material testing industry.



621-01 & 621-02



April 20, 2005

Major Tool & Machine Inc.

CERTIFICATION

Section 2 of 2
WMTR Report No. 5-25008
P.O. No. P05-01764

TENSILE RESULTS: ASME Section IX and AWS B2.1, ASTM E21-03a

SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.0050 in./in./min., 0.0500 in./min./in.

MATERIAL: Metrode ER316Mnnt

DISPOSITION: Report

Specimen ID	Test Log Number	Temp. °F/°C	UTS KSI/MPA	0.2% YS KSI/MPA	Elong %	RA %	Modulus MSI/GPA	Ult. Load LBS/NEWTONS	0.2% YLD. LBS/NEWTONS
T2	B65834	-320/-196	204.7/1410	156.5/1080	29	34	29.9/206	5095/22664	3894/17323

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DISPOSITION: Report

Specimen ID	Test Log Number	Orig. Dia. (in./mm)	Final Dia. (in./mm)	4D Orig GL (in./mm)	4D Final GL (in./mm)	Orig. Area (Sq. In./Sq. mm)	Failure Location/Type	Machine Number	A/U/R
T2	B65834	0.1780/4.521	0.1444/3.668	0.70/17.78	0.90/22.86	0.02488456/16.054520	WELD/DUCTILE	M9	R

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Technical Services Manager

Roy E. Starr/Matt Wojton

April 20, 2005

WESTMORELAND MECHANICAL TESTING & RESEARCH, Inc

Stress vs. Strain

Customer: Major Tool & Machine Inc.
WMT&R Report: 5-25008

P.O. No.: P05-01764
PQR No.: 434
Welder: Jason Beyer #465

Phone: (724)537-3131

