

Corrective Action 1379 Carondelet Division - CA / PA / RGA Database Corrective Action Type NCR Date 8/31/2005 CA Originator C. Ruud Applies to: Weld Material Lincoln 3018926-78309

## Description of Defect / Non-Conformance

Material failed elongation and one of three charpy impact tests at -320 F. The average of the specimens exceeds the minimum. See S8 of ASTM A 703/A 703M.

## **Root Cause**

The sample of the weld contained defects not detected.

#### **Corrective Action**

Retest material already at Lab.

If needed, make a new weld plate after reviewing process with welder and weld another sample.

## Verification of Corrective Action

Retest results. If new plates are needed, the new plate will be x-rayed prior to testing.

# Estimated Completion Date

9-2-05

## Actual Completion Date TBD

Signed: C. Ruud

CC: R. Suria, Barry Craig, Joe Edwards, E.J. Kubick

A1 coil

# Nonconformance Report: CA1379

**Project Disposition:** Since the re-test meets requirements, this NCR can now be considered closed.

Approvals:	i i i i i i i i i i i i i i i i i i i	Digitally signed by Phil Holtzenroeder DN: CN = Phil Heltzenroeder, C = US, 0 = PPL, OU = Mech. Eng. DivisionReason: Lam approving this documentDete; 2005.11.07 10:09:53 -0500
P	rocurement Technica	Representative
	35 pm	11/7/05

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Responsible Line Manager:

## Frank A. Malinowski

From:	Charles.Ruud@MetalTekInt.Com							
Sent:	Thursday, September 15, 2005 12:51 PM							
То:	djord@earthlink.net							
Cc:	royjratc-aol-com-offsite; NKHFlowen@aol.com; Joe.Edwards@metaltekint.com; Rick.Suria@metaltekint.com							
Subject:	Weld Material Test Report							
Attachments: Lincoln 3018926-78309 cryo results.pdf								

Attached is the report from Westmoreland on the Lincoln material lot 3018926-78309.

It has passed all tests.

Please call if there are any questions.

Chuck Ruud

Quality Manager

MetalTek International

Carondelet Division

cruud@metaltekint.com

636-475-2199

No virus found in this outgoing message. Checked by AVG Anti-Virus. Version: 7.0.344 / Virus Database: 267.11.0/103 - Release Date: 9/15/2005

		Reference	SAMPLE TY	MATERIAL:	REQUIREM	IMPACT RES	Subject	Attention:	MetalTek International The Carondelet Division 8600 Commercial Blvd. I-55 Industrial Park Pevely, MO 63070-1528	September 13, 2005	
	No.   Specimen ID	Lot No.   Batch	SAMPLE TYPE: Charpy V-Notch	MATERIAL: Lincoln LNM4455	REQUIREMENTS: Energy (Min 35\Max)	IMPACT RESULTS: ASTM E23-02	All processes, performed upon the material as received, were conducted at WMT&R, Inc. in accordance with The following tests were performed on this order: IMPACT and TENSILE	Jim Galaske	national It Division cial Blvd. Park 070-1528	2005	
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	Number	TestLog			Ĵ		upon the performed			CERTIFICATION	Westmore P.O. Box 388 P.O. Box 388 Westmoreland Youngstown, ' Joungstown, ' Telephone: 72 WM(T&R is a
0400040004	Size	Sample					material as 1 on this orde			NOI.	Westmoreland Mechanical P.O. Box 388 Westmoreland Drive Youngstown, Pa. 15696-0388 U.S.A Telephone: 724-537-3131 Telephone: 724-537-3131 Website: www.wmtr WMT&R is a technical leader in the
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1	ft-Ibs	Energy					d, were co \CT and T				and Mechanical Te Drive Pa. 15696-0388 U.S.A. 1-537-3131 Fax: 724 Website: www.wmtr.com technical leader in the ma
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5	Fracture	% Shear	POSITION				at WMT&R,				anical Testing & 8 U.S.A. Fax: 724-537-3151 w.wmtr.com er in the material testin
-		AUUR	<b>DISPOSITION:</b> Acceptable				Inc. in accord				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 Website: www.wmtr.com
							tance with				ch, Inc

the WMT&R Quality Assurance Manual, Rev. 9, dated 4/1/2000.

**WMT&R Report No. 5-34328** P.O. No. 19386 Rei No.18 Requisition No. 4934

621-01 & 621-02

Waacap Iterials Tasting Laboratory

redited

Requirements supplied by MetalTek International.

Lincoln LNM4455 3018926 78309 Cvn-3 C43941 Standard -320

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Acceptable



EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF WMTR, INC.

Technical Services Managery Tensile Supervisor September 13, 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

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KNOWINGLY OR WILLPULLY FALSIFING OR CONCEALING A MATERIAL FACT ON THIS FORM OR MANNG FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS HEREIN COLUD CONSTITUTE, FELORY PUNSIMALE (NORGE FECEFAL STATUTES, THIS CERTIFICATE OR REPORT SMALL NOT BE REPROJUED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF WMTR, INC.	Requirements supplied by MetalTek International	Lincoln LNM4455 3018926   78309   Tensile	No.   Specimen ID	Reference Lot No.   Batch		Lincoln LNM4455 3018926   78309   Tensile		Reference Lot No. i Batch	TENSILE RESULTS: ASTM E21-03a Requirements: UTS ksi (Min 95\Max) 0.2% YS ksi (Min SOAK TIME: 5 Minutes SPEED OF TESTING: 0.0030 in./in./min., 0.0500 in./min./in MATERIAL: 316 S/S	Subject: All processes, performe The following tests were	Attention: Jim Galaske	MetalTek International The Carondelet Division 8600 Commercial Blvd. 1-55 Industrial Park Pevely, MO 63070-1528	September 13, 2005 CER	W E Source W
Introduction (Privision)   Technical Selvices Manager (Privisor September 13, 2005   ENTRIES   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	309   Tensile   C43938   0.3504   0.3048   1.40   1.87   0.09643131   M9   A   AIUVR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT	Number Dia. (in.) Dia. (in.) GL (in.) GL (in.) (sq. in.) N	TestLog Orig. Final 4D Orig 4D Final Ori	AUVR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT DISPOSITION: Acceptable	C43938 -320 182.1	°F ksi ksi % % Msi lbf	TestLoa Temp. UTS 0.2% YS Elong RA Modulus Ult. Load 0.2% YLD.	tensile results: Astm E21-03a Requirements: UTS ksi (Min 95\Max) 0.2% YS ksi (Min 72\Max) 4D Elong. % (Min 32\Max) Modulus Msi (Min 21\Max) SOAK TIME: 5 Minutes SPEED OF TESTING: 0.0030 in./in./min., 0.0500 in./min./in. MATERIAL: 316 S/S DISPOSITION: Acceptable	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		P.O. No. 19366 Rei No.18 Requisition No. 4934	CERTIFICATION WMT&R Report No. 5-34328	Westmoreland Mechanical Testing & Research, Inc.   P.O. Box 388   P.O. Box 388   Westmoreland Drive   Westmoreland Drive   Youngstown, Pa. 15696-0388 U.S.A.   Telephone: 724-537-3131   Jax: 724-537-3151   Westing industry.   WM/T&r, is a technical leader in the material testing industry.
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