



# Access Oil Tools Proof Load Test Certification

The following equipment has been manufactured in accordance with API SPEC 8C specifications and meets SR2 (-45 Degree F) requirements. The material has passed our quality control department with the following specifications.

DATE: 6/28/2011

PART NUMBER: E38-067-136

SERIAL NUMBER: 109357

DESCRIPTION: AOT 7" "SLX-65" SIDEDOOR ELEVATOR  
65 TON COMPLETE f/API CASING

P.O. NUMBER: 15095      Sb# 18962

CUSTOMER: AICO Inc.

DATE SOLD: Oct 17/2011

PRODUCT RATING: 10

TEST LOAD: 15

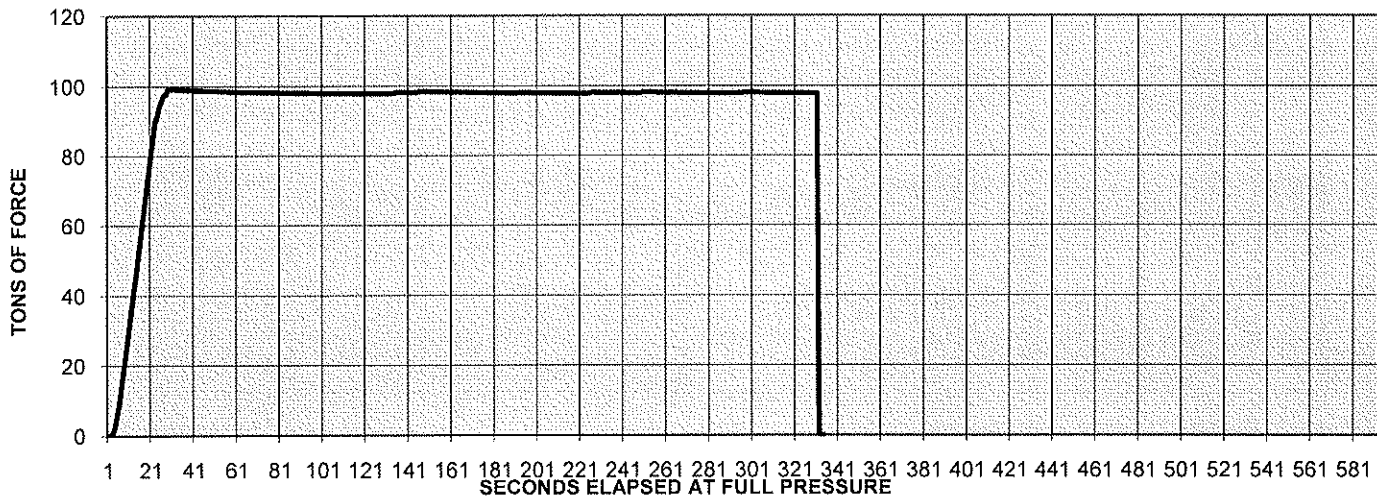
DIMENSIONAL INSPECTION: YES

PROOF LOAD TEST: YES

FUNCTIONAL TEST: YES

NDE EXAMINATION: YES

NORMAL TEST DURATION = 300 SECONDS (5 MINUTES)



Quality Representative: *Eric Scott*

**KEOKUK STEEL CASTINGS CO.**

Sand Cast Foundry  
3972 Main Street  
Keokuk, Iowa 52632

**Certified Material Test Report**



6/22/2011

Test Report Serial No: 18873	Master Heat Code: 81544	Master Heat Revision:	Date Poured: 5/10/2011
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CASTING SERIAL NUMBERS						
Part No.	PO No. / Ship No.	Quantity	SN/Heat No. Start	SN/Heat No. End	Material Spec.	Grade/Type
E38065C	32878-8 /	1	J364	J364	MS-007	4318

CHEMICAL ANALYSIS																
C	P	S	Mn	Si	Ni	Cr	Mo	Cu	Al	N2	V	Ti	W	C Equiv	Residual	Ferrite Content
0.172	0.024	0.015	0.970	0.490	1.740	0.680	0.390	0.129	0.040		0.064	0.000	0.010	0.690		0.000

Comments:

MECHANICAL PROPERTIES					CHARPY V-NOTCH TEST				
Tensile (PSI)	Yield (PSI)	% EL	% RA	HARDNESS BHN	Spec	1	2	3	AVG
131,500	110,500	17.00	53.00	269	-4	60.00	50.00	54.00	54.67
Comments:					-45 F	37.00	39.00	52.00	42.67
					Measurement Method:				
					Comments: Charpy test values are in Ft-Lbs				

HEAT TREATMENT
Norm., Quench & Temper

<p>The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55 (YIELD is 0.2% Offset) Equivalent Round tested at 1/4 T depth. Test bar size T x T = 5 x 5.</p>	<p><b>Certification of Compliance:</b> Keokuk Steel Castings certifies that this order was processed in compliance with the latest revision of Keokuk Steel Castings's quality manual and your order.</p> <p>This is to certify that the contents of this report are correct and accurate. All test results and operations performed by Keokuk Steel Castings are in compliance with the requirements of the referenced material specifications and the applicable material requirements.</p>
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Certified By: Bob Hollandsworth	Certified Date: 6/17/2011
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**KEOKUK STEEL CASTINGS CO.**

Sand Cast Foundry  
3972 Main Street  
Keokuk, Iowa 52632

**Certified Material Test Report**



6/1/2011

Test Report Serial No: 18540	Master Heat Code: 81531	Master Heat Revision:	Date Poured: 5/9/2011
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CASTING SERIAL NUMBERS						
Part No.	PO No. / Ship No.	Quantity	SN/Heat No. Start	SN/Heat No. End	Material Spec.	Grade/Type
E38066C	32883-6 /	1	J366	J366	MS-007	4318

CHEMICAL ANALYSIS																
C	P	S	Mn	Si	Ni	Cr	Mo	Cu	Al	N2	V	Ti	W	C Equiv	Residual	Ferrite Content
0.168	0.023	0.014	0.940	0.490	1.720	0.680	0.390	0.142	0.030		0.055	0.000	0.000	0.673		0.000

Comments:

MECHANICAL PROPERTIES					CHARPY V-NOTCH TEST				
Tensile (PSI)	Yield (PSI)	% EL	% RA	HARDNESS BHN	Spec	1	2	3	AVG
124,500	114,000	21.00	60.00	269	-4	54.00	25.00	44.00	41.00
Comments:					-45 F	58.00	57.00	37.00	50.67
					Measurement Method:				
					Comments: Charpy test values are in Ft-Lbs				

HEAT TREATMENT
Norm., Quench & Temper

<p>The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55 (YIELD is 0.2% Offset) Equivalent Round tested at 1/4 T depth. Test bar size T x T = 5 x 5.</p>	<p><b>Certification of Compliance:</b> Keokuk Steel Castings certifies that this order was processed in compliance with the latest revision of Keokuk Steel Castings's quality manual and your order.</p> <p>This is to certify that the contents of this report are correct and accurate. All test results and operations performed by Keokuk Steel Castings are in compliance with the requirements of the referenced material specifications and the applicable material requirements.</p>
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Certified By: Bob Hollandsworth	Certified Date: 5/31/2011
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**KEOKUK STEEL CASTINGS CO.**

Sand Cast Foundry  
3972 Main Street  
Keokuk, Iowa 52632

**Certified Material Test Report**



10/21/2010

Test Report Serial No: 15987	Master Heat Code: 80037	Master Heat Revision:	Date Poured: 8/24/2010
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CASTING SERIAL NUMBERS						
Part No.	PO No. / Ship No.	Quantity	SN/Heat No. Start	SN/Heat No. End	Material Spec.	Grade/Type
E31331C	29336-8 /	69	H482	H482	MS-007	4318

CHEMICAL ANALYSIS																
C	P	S	Mn	Si	Ni	Cr	Mo	Cu	Al	N2	V	Ti	W	C Equiv	Residual	Ferrite Content
0.162	0.014	0.025	0.760	0.410	1.770	0.700	0.400	0.181	0.020		0.051	0.000	0.000	0.649		0.000

Comments:

MECHANICAL PROPERTIES					CHARPY V-NOTCH TEST				
Tensile (PSI)	Yield (PSI)	% EL	% RA	HARDNESS BHN	Spec	1	2	3	AVG
152,000	143,000	15.00	29.00	302	-4	33.00	31.00	33.00	32.33
Comments:					-45 F	22.00	24.00	21.00	22.33
					Measurement Method:				
					Comments: Charpy test values are in Ft-Lbs				

HEAT TREATMENT
Norm., Quench & Temper

<p>The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55 (YIELD is 0.2% Offset) Equivalent Round tested at 1/4 T depth. Test bar size T x T = 5 x 5.</p>	<p><b>Certification of Compliance:</b> Keokuk Steel Castings certifies that this order was processed in compliance with the latest revision of Keokuk Steel Castings's quality manual and your order.</p> <p>This is to certify that the contents of this report are correct and accurate. All test results and operations performed by Keokuk Steel Castings are in compliance with the requirements of the referenced material specifications and the applicable material requirements.</p>
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Certified By: Bob Hollandsworth	Certified Date: 9/16/2010
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# CERTIFICATE OF TEST



BG77

Certification Date  
23-MAY-2011

**CUSTOMER ORDER NUMBER**

35206

EARLE M. JORGENSEN COMPANY  
6201 LUMBERDALE  
HOUSTON TX 77092

Invoice Number  
S129241

**CUSTOMER PART NUMBER**

**SOLD TO:** ACCESS OIL TOOLS INC  
3711 MELANCON ROAD  
BROUSSARD LA 70518

**SHIP TO:** ACCESS OIL TOOLS INC  
3711 MELANCON ROAD  
BROUSSARD LA 70518

Description: ETD 150 CF BAR AMS 6378  
3/4 RD X 12' R/L  
HEAT: 076010

Line Total: 1440 IN

ITEM: 505721

Specifications:  
AMS 6378 F  
ASTM A331 95

ASTM A108 07

ASTM A29 05

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.45	0.91	0.019	0.034	0.24	0.03	1.01	0.21
CU	AL	V	NB	SE			
0.01	0.033	0.003	0.003	0.05			

RCPT: R352015

MILL : NIAGARA LASALLE CORPORATION

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RC
	167998.0	176011.0	10.5	41.5	38

APPROVED

DATE

5/27/11

BY

*[Signature]*

MS-404 SPI

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.

MICHAEL BOSCH

*Michael Bosch*

MANAGER, QUALITY ASSURANCE

# CERTIFICATE OF TEST



Certification Date  
23-MAY-2011

**CUSTOMER ORDER NUMBER**

35206

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6201 LUMBERDALE  
HOUSTON TX 77092

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3711 MELANCON ROAD  
BROUSSARD LA 70518

**SHIP TO:** ACCESS OIL TOOLS INC  
3711 MELANCON ROAD  
BROUSSARD LA 70518

Description: ETD 150 CF BAR AMS 6378  
3/4 RD X 12' R/L

Line Total: 1440 IN

HEAT: 076010

ITEM: 505721

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	8	10	12	14	16	20	24	28	32
61	60	59	59	59	59	57	57	57	57	55	51	47	46	44

GRAIN SIZE : 5 - 8

STRAND CAST REDUCTION RATIO 305.0 TO 1  
MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
DECARB: OK  
MACRO: OK

**COMMENTS**

MELTED IN GERMANY  
COLD FINISHED IN USA

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.

MICHAEL BOSCH

MANAGER, QUALITY ASSURANCE

BB20



**NIAGARA  
LASALLE  
CORPORATION**

1412 150th Street  
Hammond IN 46327-1799

**CERTIFICATION**

CERTIFICATE	Rev
H127351	2
DATE	
02/22/11	
PAGE	
2	

S H I P T O	ENERGY ALLOYS - LAFAYETTE	PURCHASE ORDER	958262op	
	615 TIDELAND	ORDER	682993-1	
	BROUSSARD LA 70518	CUSTOMER ITEM	ITEM 111125132ET4	
	USA	GRADE	E.T.D. 150(R)	
		SHAPE	Round	
	SIZE	1.1250	SIZE MM	28.5750 MM
	LENGTH	11' 0" / 12' 6"	LENGTH MM	3352.8 / 3810

Spec/Rev: Spec/Rev: AMS 6378F Spec/Rev: ASTM A108-07 Spec/Rev: ASTM A29-05 Spec/Rev: ASTM A331-95

HEAT	GRAIN PRACTICE	SOURCE / MELTED	CAST	REDUCTION RATIO	DI
076012	FINE(5-8)	ARCELORMITTAL-RUHRORT (GERMANY)	BLOOM	150.3:1	

CHEMISTRY										
C	MN	P	S	SI	NI	CR	MO	CU	AL	V
0.45	0.91	.016	.035	0.250	0.02	1.01	.210	.010	.034	.003
N	TE	AS	PB	SE	BI	B	HS			
N/A	N/A	N/A	N/A	.050	N/A	N/A	.0030			

MECHANICAL							
JOB	TENSILE	2% YIELD	ELONG	R OF A	HARDNESS	.02% YIELD	COMMENT
HS29456	165,133 PSI	155,204 PSI	10.00	39.80	HRC = 35		

HARDENABILITY														
01	02	03	04	05	06	08	10	12	14	16	20	24	28	32
61	60	59	59	59	58	58	57	56	55	54	50	46	45	42

LOT							
LOT	JOB	WEIGHT (LBS)	PIECES	LOT	JOB	WEIGHT (LBS)	PIECES
3532645	HS29456	2,000	64				

MACRO S1R1C2 DECARB.020\*

APPROVED  
DATE 5/2/11  
BY *[Signature]*  
MS-404 SPI

958262 / 1101

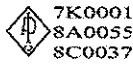
WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temperature during processing or while in our possession. No weld repairs performed on the above material.

CERTIFICATE OF TEST

By:

*Walter P. Kretzer*

Walter P. Kretzer - Director of Q.A./Chief Metallurgist



# N. D. T. REPORT

3711 MELANCON ROAD  
BROUSSARD, LA 70518  
USA

337-367-5044 [main]  
800-832-7349 [toll free]  
337-367-0795 [fax]  
www.fot.com

<b>Assembly Serial No</b>	<b>109357</b>		
Acceptance Standard	API SPEC 8C	Media Type	Magnaflux 20B
NDT Procedure	SOP-025	Instrument Used	CD Box
Method	Wet Fluorescent	Instrument SN	On File

<b>Job Number</b>	<b>109357</b>		
<b>Serial Number</b>	<b>Part Number</b>	<b>Status</b>	<b>Date</b>
109357	E38-067-136	Accept	6/29/2011
AOT 7" "SLX-65" SIDEDOOR ELEVATOR 65 TON COMPLETE f/API CASING			<b>Remarks</b>

<input checked="" type="checkbox"/>	Each part was tested and examined
<input type="checkbox"/>	Tested and examined connection ends only
<input type="checkbox"/>	Other
Remarks:	

LEVEL II Inspector	LENNY MATTHEWS	Signature	On File
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