CERTIFICATION

KEYSTONE ENERGY TOOLS certifies that the following equipment has been manufactured, load tested, and monogrammed in accordance with API SPEC 8C PSL1 requirements. The Equipment has also passed our quality control department with the below results.

DESCRIPTION: 5" FH 7.5 TON BOTTLENECK SINGLE JT. ELEVATOR PSL 1 W/ API 8C MONOGRAM

PART NO:	E20030-123	S/N	67494	INSPECTED	YES
MATERIAL SPECIFICATION				INSPECTED	YES
BRINELL HARDNESS TEST				INSPECTED	YES
NDE INSPECTION				INSPECTED	YES
DIMENSIONAL INSPECTION				INSPECTED	YES
LOAD TEST				INSPECTED	YES
LOAD APPLIED	11.25 Tons			INSPECTED	YES
LOAD TEST DURATION	5 MINUTES			INSPECTED	YES

All KET Certifications will have an original effective date the same day as original shipment.

Date Issued: 5/15/2026 Quality Rep.

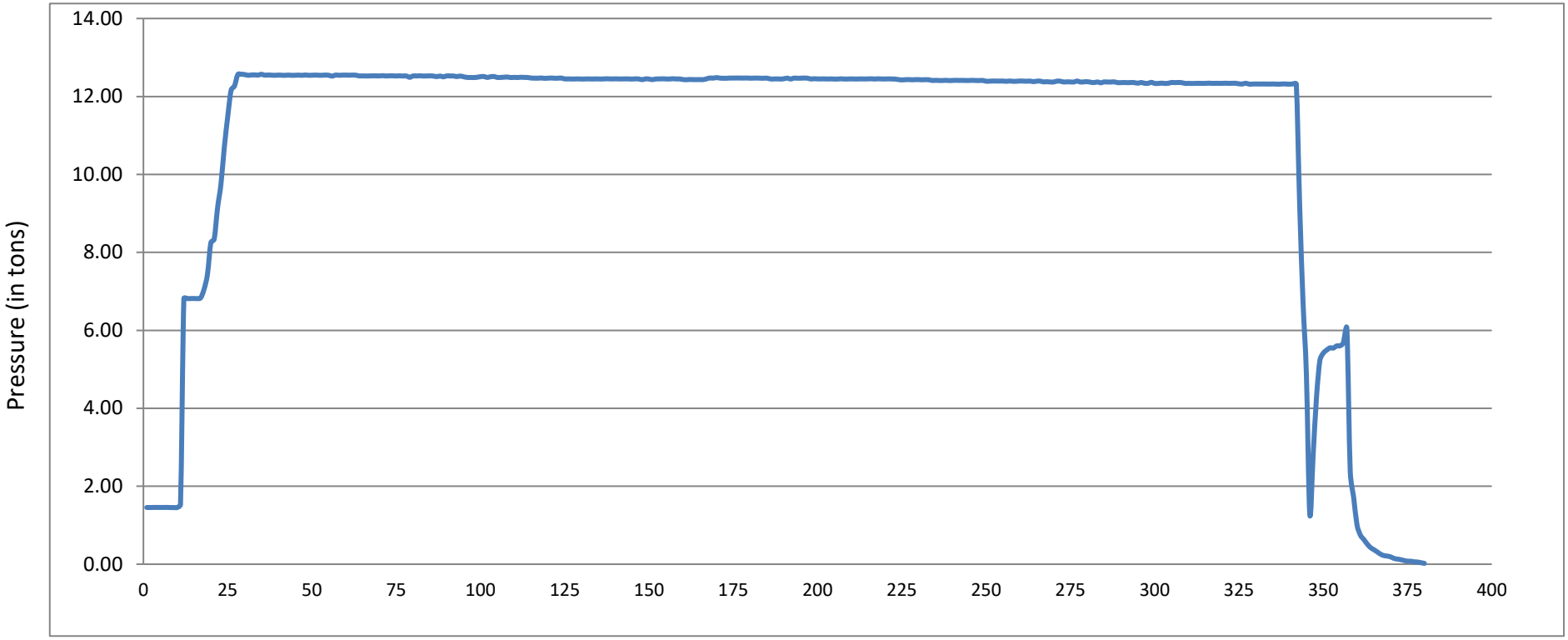
Certificate of Proof Load Test

The following equipment has been proof load tested in accordance with API 8C specifications
The material has passed our quality control department with the following results.

Date	May 13, 2026	Product Rating:	7.5 Tons
Part Number	E20030-123	Test Load:	11.25 Tons
Serial Number:	67494		
Description:	5" FH 7.5 TON BOTTLENECK SINGLE JT. ELEVATOR PSL 1 W/ API 8C MONOGRAM		

The maximum allowable load capacity of an elevator and slip assembly is governed solely by the elevator body rating. The slip functions as a load-transfer component and does not define the load capacity of the elevator it is used in.

Normal Test Duration = 300 seconds (5 minutes)



Quality Representative: _____

MAGNETIC PARTICLE INSPECTION RECORD

DATE: May 14, 2026

DESCRIPTION: 5" FH 7.5 TON BOTTLENECK SINGLE JT. ELEVATOR PSL 1 W/ API 8C MONOGRAM

KET S/N: 67494

This is to certify that all the assemblies referenced above have been inspected by qualified KET personnel per ANST-TC-1A. The referenced equipment has been found to be free of defects by using wet magnetic particle inspection method per WI-005, KET-WP-01, ASTM E 709, & ASTM E 125.

INSPECTED BY: **Justin Guidry** **SNT-TC -1A NDT Level II**

O 337-365-4411
F 337-365-4456
K-E-T.com

3711 Melancon Road
Broussard, La 70518

Certified Material Test Report

From:	TO:
Keokuk Mills. LLC dba Keokuk Steel Castings 3972 Main Street Keokuk Ia, 52632	KEYSTONE ENERGY 3711 Melancon Road Brussard, LA 70518 USA

Casting Data

Heat Code	Quantity	PO#	Heat #	Alloy	Date Poured
F545	10	18760	B15153	4318	4/13/2026

Part #	Description	Spec
E70489-C	BODY	MS-004 120/110; KSC 4318 WITH OUT VANADIUM

Chemical Data

C	Mn	Si	Ni	Cr	Mo	Al	P	S	Cu	V	Ti	N
0.20	0.89	0.52	1.91	0.85	0.45	0.044	0.009	0.008	0.070	0.005		0.0094

Tensile Data

Tensile (PSI)	Tensile (mPa)	Yield (PSI)	Yield (mPa)	% Elongation	% Red. Of Area	BHN
133,000	917.00	112,000	772.21	16.0	37.0	286

Charpy V-Notch Data

Test Temp.		Impact Toughness (foot-pounds)				Impact Toughness (Joules)			
°F	°C	1	2	3	AVG	1	2	3	AVG
-4	-20	45.0	45.0	40.0	43.3	61.01	61.01	54.23	58.71
-45	-43	33.0	32.0	35.0	33.3	44.74	43.39	47.45	45.15

Notes

The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55.
The material on this certification was melted and manufactured in the United States of America.
Castings were austenitized at 1650 deg. F for 4 hours minimum, quenched in water to ambient temperature, tempered at 1100 deg. F For 4 hours minimum
Equivalent Round tested at ¼ T depth Test bar size T x T = 4 x 4; Comments: 426, 434, 482

Allan See	5/8/2026
Allan See-Technical Director-Keokuk Steel Castings	Date

Initial: AR
Date: 5-13-26

Certified Material Test Report

From:	TO:
Keokuk Mills. LLC dba Keokuk Steel Castings 3972 Main Street Keokuk Ia, 52632	KEYSTONE ENERGY 3711 Melancon Road Brussard, LA 70518 USA

Casting Data	Heat Code	Quantity	PO#	Heat #	Alloy	Date Poured
	F544	5	15826	B15826	4318	4/13/2026
	Part #	**Description**	**Spec**			
	E70488-C	DOOR	MS-004 120/110; KSC 4318 WITH OUT VANADIUM			

Chemical Data	C	Mn	Si	Ni	Cr	Mo	Al	P	S	Cu	V	Ti	N
	0.20	0.89	0.52	1.91	0.85	0.45	0.044	0.009	0.008	0.070	0.005		0.0094

Tensile Data	Tensile (PSI)	Tensile (mPa)	Yield (PSI)	Yield (mPa)	% Elongation	% Red. Of Area	BHN
	133,000	917.00	112,000	772.21	16.0	37.0	286

Charpy V-Notch Data	Test Temp.		Impact Toughness (foot-pounds)				Impact Toughness (Joules)			
	°F	°C	1	2	3	AVG	1	2	3	AVG
	-4	-20	45.0	45.0	40.0	43.3	61.01	61.01	54.23	58.71
	-45	-43	33.0	32.0	35.0	33.3	44.74	43.39	47.45	45.15

Notes
The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55. The material on this certification was melted and manufactured in the United States of America. Castings were austenitized at 1650 deg. F for 4 hours minimum, quenched in water to ambient temperature, tempered at 1100 deg. F For 4 hours minimum Equivalent Round tested at ¼ T depth Test bar size T x T = 4 x 4; Comments: 426, 434, 482

Allan See	5/8/2026
Allan See-Technical Director-Keokuk Steel Castings	Date

Initial: AR
Date: 5-13-26

Certified Material Test Report

From:	TO:
Keokuk Mills. LLC dba Keokuk Steel Castings 3972 Main Street Keokuk Ia, 52632	KEYSTONE ENERGY 3711 Melancon Road Broussard, LA 70518 USA

Casting Data	Heat Code	Quantity	PO#	Heat #	Alloy	Date Poured
	F447	33	17955	B14831	4318	1/29/2026
	Part #	Description	Spec			
	E39-190	LATCH	A148-15a Grade 120/110 NORMALIZE, QUENCH AND TEMPER			

Chemical Data	C	Mn	Si	Ni	Cr	Mo	Al	P	S	Cu	V	Ti	N
	0.18	0.83	0.51	1.71	0.79	0.45	0.037	0.012	0.009	0.053	0.008		0.0097

Tensile Data	Tensile (PSI)	Tensile (mPa)	Yield (PSI)	Yield (mPa)	% Elongation	% Red. Of Area	BHN
	130,000	896.32	123,000	848.06	15.3	38.6	286

Charpy V-Notch Data	Test Temp.		Impact Toughness (foot-pounds)				Impact Toughness (Joules)			
	°F	°C	1	2	3	AVG	1	2	3	AVG
	-4	-20	43.0	44.0	47.0	44.6	58.30	59.66	63.72	60.47
	-45	-43	30.0	33.0	31.0	31.3	40.67	44.74	42.03	42.44

Notes
The above specimen meets the minimum requirements of the specification requested on above referenced P.O. and MSS-SP-55. The material on this certification was melted and manufactured in the United States of America. Castings were austenitized at 1650 deg. F for 4 hours minimum, quenched in water to ambient temperature, tempered at 1100 deg. F For 4 hours minimum Equivalent Round tested at ¼ T depth Test bar size T x T = 4 x 4; Comments: 426, 434, 482

Allan See	2/24/2026
Allan See -Technical Director-Keokuk Steel Castings	Date

Initial: AR
Date: 3-6-26

K-95

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	WORK ORDER NUMBER	DATE
700450	1.2500RHR4140	75068505 210mm Billet	313403 101	8/29/17

REPORT TO

SHIP TO

ORDERED

GRADE	SIZE	LENGTH
4140	1 1/4" RND	24' 3"

CUSTOMER SPECIFICATIONS

A29/A29M-16; A304-16; E45-13; A322-13; E381-01; QL-2 (04/17)

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.40	0.85	0.010	0.021	0.24	0.13	1.00	0.17	0.21	0.010	0.021

V	B	Ca	Nb
0.004	0.0005	0.0008	0.002

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDNESS SPECIFICATION ASTM E10 AS ROLLED

SURFACE
301.0

Initial: AR
Date: 5-9-25

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Quality Assurance Representative

CONTINUED ON PAGE 2

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	WORK ORDER NUMBER	DATE
700450	1.2500RHR4140	75068505	313403 101	8/29/17

210mm Billet

REPORT TO

SHIP TO

ORDERED

GRADE	SIZE	LENGTH
4140	1 1/4" RND	24' 3"

CUSTOMER SPECIFICATIONS

A29/A29M-16; A304-16; E45-13; A322-13; E381-01; QL-2 (04/17)

HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL

J1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32	34
56	56	56	56	56	56	55	54	53	51	50	49	48	47	46	45	44	44	44	42	40	39	39	37	

MACROSTRUCTURAL TEST PER - ASTM E381 JDM AO QL-2

PLATE I

	S	R	C
FRONT	1	1	1
MIDDLE	1	1	1
BACK	1	1	1

PHYSICALS SPECIFICATION ASTM E8/A370 AS ROLLED

02.0 IN

TENSILE KSI	YIELD KSI	% ELONGATION	REDUCTION OF AREA
141.0	98.0	10.0	20.0

DI CALCULATION SPECIFICATION CAT 1E0024

5.26

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Quality Assurance Representative

CONTINUED ON PAGE 3

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	WORK ORDER NUMBER	DATE
700450	1.2500RHR4140	75068505	313403 101	8/29/17

210mm Billet

REPORT TO

SHIP TO

ORDERED

GRADE	SIZE	LENGTH
4140	1 1/4" RND	24' 3"

CUSTOMER SPECIFICATIONS

A29/A29M-16; A304-16; E45-13; A322-13; E381-01; QL-2 (04/17)

REDUCTION RATIO SPECIFICATION JDM AO QL-2

RATIO= 55.5 TO 1.0

CERTIFICATION STMT SPECIFICATION VACUUM DEGASSED

MEETS JDM AO QL-2 MICROCLEANLINESS BASED ON CAPABILITY
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Quality Assurance Representative

GERDAU

Huntington Facility - Test Report

Printed: 9/13/2018 10:56 AM

25 Commercial Road, Huntington, IN 46750
(260) 356-9520
fax (260) 356-9522

Sales Order	43624	Customer Name	
Heat Number	75068505	Location	
Size	1.2500		
Turned OD	1.2500		
Grade	4140		

Test Remarks: QT to F1554 GR 105 S5 & A193 B7

Approved ☑ By Metallurgist Approved Date 9/13/18

Chemistry Data

	Heat Number	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Al	V	B	Other
	75068505	0.400	0.850	0.010	0.021	0.240	0.130	1.000	0.170	0.210	0.021	0.004		

Q&T Hardness Test Data

	HardnessType	Min	Max	Location	Sample Location
	Rc		29.7		Surface
	Rc		32.0		Mid Radius
	Rc		31.2		Core

Q&T Tension Test Data

Sample Gage: .500" Dia.
Bale Number

Tensile	Yield 1	Method 1	Yield 2	Method 2	Elong %	R/A %	Gage Length	Tensile Location	PC #
147 Ksi	135 Ksi	.2% Offset			23.0	60.0	2.000" G.L.	Center	

Charpy Test Data

Sample Size: 10.0mm Velocity: M/sec

Test	Location	Orientation	Temperature	1	2	3	Avg	PC #
Charpy V (ft-lbs)		Longitudinal	-20°F	66.0	66.0	66.0	66.000	

Heat Treat Data

Austentized at 1,645°F for 0.9 minutes
Tempered at 1,400°F for 0.9 minutes

Induction Heating
Water Quenched

Other Test Data

Decarb (Inches)	Straightness	Magnetism (gauss)	As Quenched (Rc)	Microstructure
	0.125"/5 Ft	+/- 5		

Description of Other Tests

GERDAU

Huntington Facility - Test Report

Printed: 9/13/2018 10:56 AM

25 Commercial Road, Huntington, IN 46750
(260) 356-9520
fax (260) 356-9522

Sales Order	43624	Customer Name	
Heat Number	75068505	Location	
Size	1.2500		
Turned OD	1.2500		
Grade	4140		

We hereby certify that the reported data are correct according to Gerdau tests and those of its suppliers

Doug Melchi, Metallurgist

F037A

Accu Test Labs Ltd.

ISO/IEC 17025:2017 Accredited / PJLA #87082 Testing

6722 Guhn Rd. ♦ Houston, TX 77040 ♦ Telephone (713) 460-3655

Report Date: 12/9/2024
Report No: 1137777.00
Rev: A
Cust Acct: HOL518

To: Holbert Steel of LA, LLC
205 Nolan Road
Broussard, LA 70518

Ordered By: BH

PO: 112524

Material: 4140 HT 1-1/4"OD x 15"Long Test Piece
Heat/ID: 75068505
Job Info: C1

Tensile Test Results

No/Location	Size (in.)	Area (in^2)	Ult. Load (lbs.)	Yield (psi)	Tensile (psi)	Elong (%)	R. of A. (%)	Fracture
1	.504			132,900	146,000	20.4	56.3	

Unless otherwise stated, yield stress is 0.2% offset, gauge length is 2 in. for 1/2 in. bars or 1 in. for 1/4 in. bars.

Tensile Notes:
Brinell hardness: 286 HBW

Charpy Test Results

No.	Temp	Location	Foot Pounds	%Shear	Mils Lat Exp
1	+72°F	LCVN	78-75-78	100-100-100	48-47-49
2	-4°F	LCVN	72-70-75	100-100-100	42-40-43

Unless otherwise stated, Charpy Impact specimens are V-notch 10 x 10 mm. Tested with 8 mm striker.

Chemical Analysis Results

1 C: 0.40 Mn: 0.85 P: 0.010 S: 0.023 Si: 0.24 Cr: 1.00 Mo: 0.16

Chemical analysis results are reported in percent by weight.

All testing performed at center.

Document Reviewed By:

Brittany Rivera
Documentation Specialist

Our reports are for the exclusive use of our customer and our name may be used only with prior written approval. Our reports apply only to the sample tested or inspected and do not necessarily represent the quality of other apparently similar or identical materials. All test specimens and testing conforms to ASTM A-370 requirements unless otherwise stated. This test report shall not be reproduced, except in full, without the written approval of Accu-Test Labs Ltd.

M-21

CERTIFICATE OF CONFORMANCE

Certification Date
31-MAR-2026

CUSTOMER ORDER NUMBER
18790

CUSTOMER PART NUMBER
506033

6201 LUMBERDALE
HOUSTON TX 77092

Invoice Number
S592129

Ship# T596243

SOLD TO: KEYSTONE ENERGY TOOLS
3711 MELANCON RD
BROUSSARD LA 70518

SHIP TO: KEYSTONE ENERGY TOOLS
3711 MELANCON RD
BROUSSARD LA 70518

Description: 4142 CF Q&T SR - ASTM A434 CL BC
5/8 RD X 12' R/L Line Total: 1 BAR
HEAT: 10975580 ITEM: 506033

Specifications:
ASTM A434 CL BC 18
ASME SA193 B7 20
ASTM A320 L7 24
ASTM E140
ASTM A193 GR B7 24
ASTM F1554 105 20
ASTM A354 BC 17
ASTM E381
EN 10204 3.1 04
SAE 2750

CHEMICAL ANALYSIS

C	SI	NI	N	MN	CR	CU	TI
0.43	0.27	0.05	0.007	0.87	0.93	0.09	0.002

P	MO	V	S	AL	B
0.007	0.21	0.002	0.016	0.027	0.0001

RCPT: R121515
VENDOR: AM GROUP LLC DBS AMERICA METAL
CTRY OF MELT/POUR: USA CTRY OF MANUFACTURE: USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RC
	128.0	134.0	25.6	59.4	31

Initial: AR
Date: 4-22-26

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 meets all specified order requirements as well as 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. SHANE LU

Manager, Quality Assurance

CERTIFICATE OF CONFORMANCE

Certification Date
31-MAR-2026

CUSTOMER ORDER NUMBER
18790

CUSTOMER PART NUMBER
506033

6201 LUMBERDALE
HOUSTON TX 77092

Invoice Number
S592129

Ship# T596243

SOLD TO: KEYSTONE ENERGY TOOLS
3711 MELANCON RD
BROUSSARD LA 70518

SHIP TO: KEYSTONE ENERGY TOOLS
3711 MELANCON RD
BROUSSARD LA 70518

Description: 4142 CF Q&T SR - ASTM A434 CL BC
5/8 RD X 12' R/L Line Total: 1 BAR
HEAT: 10975580 ITEM: 506033
END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
58	58	58	58	58	58	57	56	55	53	50	49	46	46	45

24	28	32
43	40	38

GRAIN SIZE :5 -

REDUCTION RATIO 81.0 TO 1
THERMAL TREATMENT: OK
AUSTEN TEMP F 1440 QUENCH WATER TEMP F 68.63 TEMPER TEMP F
1270 LINE SPEED (FT/MIN) 40
MACRO: OK

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 meets all specified order requirements as well as 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. SHANE LU

Manager, Quality Assurance

Qual Concepts Labs

Charpy Impact Test Report D43880

Customer:	EMJ COMPANY	HT #:	10975580	PO #:	W791161
Material:	4142 CF			Pieces:	1
Customer Info:	5/8 RD TPC				
Specification:	LCVN @ -4F PER MS-010				

Equipment used:

SATEC SN:1684	Calibration Date:	07/15/2025	Calibration Due Date: 07/15/2026
TEGAM THERMO SN:840	Calibration Date:	06/13/2025	Calibration Due Date: 06/13/2026

Charpy Results: **55mm x 10mm x 10.0mm**

No.	Temp.	Location	Ft/Lbs	% Shear	MLE
1	-4 F	LCVN	78- 98- 85-	100- 100- 100-	49- 47- 48-

Comments:

SO# S592129

Date: 03/19/2026 Operator: JON DOWN

7825 Hillmont, Houston, Texas 77040 PH: (713) 690-2703 FAX: (713) 460-8636
www.qualconcepts.com

R121515

American Metal Group
290 Lower Bon Air Road
Sylacauga, AL 35150
Tel 205.433.6680

Material Certification

Customer: **EMJ COMPANY**
Ship To: **EMJ CHICAGO Bay 9(423)**
Customer PO No: **P411077-423**
American Metal Group Order No: **73930**
Order Line: **1**
Shipped Qty: **21174**
American Metal Group Part No: **BAR 4140 .625x144 B7/BC**
Customer Part No: **506033**
Country of Origin: **USA**
Rolled Mill: **Charter Steel**
Melted Mill: **Charter Steel**
Grade: **4140**
Heat: **109755BO LOT .6875**
Note: **Meets ASTM A108-24**

EMJ CERTIFICATE OF COMPLIANCE
We certify that the shipment of material conforms to the purchase order.
KEYSTONE 62122
18740 506033
8599129
10975580
3/31/2026

Material Specification Type	Material Specification	Actual
Mill Information	ROLLED Country of Origin	USA -
	MELTED Country of Origin	USA -
	MANUFACTURED Country of Origin	USA -
Certified Mill Chemistry	Carbon	0.43 %
	Manganese	0.87 %
	Phosphorus (max)	0.007 %
	Sulfur (max)	0.016 %
	Silicon	0.27 %
	Chromium	0.93 %
	Molybdenum	0.21 %
	Aluminum	0.027 %
	Nickel	0.05 %
	Copper	0.09 %
	Vanadium	0.002 %
	Nitrogen	0.007 %
	Boron	0.0001 %
	Titanium	0.002 %
Certified Mill Analysis	Reduction Ratio	81 %
	Macroetch E-381 Center	1 -
	Macroetch E-381 Mid Radius	1 -
	Macroetch E-381 Surface	1 -
	Grain Size	5 -
	Grain	FINE -
	DI Value (Calculated)	5.29 -
	J1	58 -
	J2	58 -
	J3	58 -
	J4	58 -
	J5	58 -

American Metal Group
290 Lower Bon Air Road
Sylacauga, AL 35150
Tel 205.433.6880

Material Certification

Customer: **EMJ COMPANY**
Ship To: **EMJ CHICAGO Bay 9(423)**
Customer PO No: **P411077-423**
American Metal Group Order No: **73930**
Order Line: **1**
Shipped Qty: **21174**
American Metal Group Part No: **BAR 4140 .625x144 B7/BC**
Customer Part No: **506033**
Country of Origin: **USA**
Rolled Mill: **Charter Steel**
Melted Mill: **Charter Steel**
Grade: **4140**
Heat: **10975580 LOT .6875**
Note: **Meets ASTM A108-24**

Material Specification Type	Material Specification	Actual
Certified Mill Analysis	J6	58 -
	J7	57 -
	J8	56 -
	J9	55 -
	J10	53 -
	J12	50 -
	J14	49 -
	J16	46 -
	J18	46 -
	J20	45 -
	J24	43 -
	J28	40 -
	J32	38 -

No weld repair performed on the material.
No Mercury used in the production of this material.
Meets EN10204 3.1
"All Cold Drawn parts are produced to the ASTM A108-24 specification."

"The recording of false, ficitious and fraudulent statements or entries on this document may be punishable as a felony under federal statute."

By:
Authorized Representative

Plex 2/4/26 8:59 AM Page 2

AMERICAN METAL GROUP

American Metal Group
290 Lower Bon Air Road
Sylacauga, AL 35150 USA
Tel: 205.433.6680

R121515

Heat: 10975580 LOT .6875

Job No: 40868
Certified Date: 1/26/2026
Grade: 4140

Customer & Shipping

Customer: EMJ COMPANY
Ship To: EMJ CHICAGO Bay 9(423)
Customer PO No: P411077-423
Customer Part No: 506033

Order Information

Order No: 73930
Releases Qty: 1
Shipped Qty: 21,174.00
Part No: BAR 4140 .625x144 B7/BC

Country of Origin

ROLLED USA
MELTED USA
MANUFACTURED USA

Certified Mill Analysis

Reduction Ratio: 81
Macroetch E-381 C: 1
Macroetch E-381 MR: 1
Macroetch E-381 S: 1
Grain Size: 0

Certified Mill Chemistry

Carbon: **0.43 %**	Manganese: **0.87 %**	Phosphorus: **0.007 %**	Sulfur: **0.016 %**
Silicon: **0.27 %**	Chromium: **0.93 %**	Molybdenum: **0.21 %**	Aluminum: **0.027 %**
Nickel: **0.05 %**	Copper: **0.09 %**	Vanadium: **0.002 %**	Boron: **0.0001 %**
Nitrogen: **0.007 %**	Titanium: **0.002 %**		

Certified Mill Analysis (Jominy HRC)

J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J12	J14	J16	J20	J18	J24	J28	J32
58	58	58	58	58	58	57	56	55	53	50	49	46	45	46	43	40	38

Applicable Specifications

Specification	Rev	Specification	Rev	Specification	Rev	Specification	Rev	Specification	Rev
ASME SA193 B7	2020	ASTM A193 B7	2024	ASTM A320 L7	2024	ASTM A354 BC	2017	ASTM A434 BC	2018
ASTM F1554 105	2020	EN 10204 3.1	2004						

Containers: S570527, S570543, S570553, S570565, S570571

Test No: 22649 **Test:** Quench & Temper Physicals - Machined

Hardness (HRC)	Tensile (ksi)	Yield 0.2% Offset (ksi)	Elongation (%)	ROA (%)	Note
31	134	128	25.6	59.4	
29	134	127	25.7	60.5	
28	135	127	24.9	61.3	

Test No: 22648 **Test:** Quench & Temper Line Info

Austenitize Temp (F)	Quench Water Temp (F)	Temper Temp (F)	Line Speed (ft / min.)	Note
1440	68.63	1270	40	

Test No: 22647 **Test:** Partial Decarb Test

Surface Carb.	Partial Surface Decarb.	Note
Pass	Pass	

Hardness values may by converted per ASTM E140. Furnace Calibration: Optical Pyrometers are calibrated to meet SAE 2750 No weld repair performed on the material. No Mercury used in the production of this material. Melt Method: Electric Arc Furnace. "The recording of false, fictitious and fraudulent statements or entries on this document may be punishable as a felony under federal statute."

Timothy Beasley

Beasley, Timothy - Lab Technician