

02/03/2006 From: NORFOLK IRON & METAL CO.

To: TIMBERLINE STEEL

PO # :410011 RICK

Inv # :03207832

Notes :157561

NUCOR BAR MILL GROUP PLYMOUTH DIVISION

Mill Test Report

NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL.

Requestor: BSCALE

SOLD TO: NORFOLK IRON AND METAL CO.
P.O. BOX 1129
NORFOLK, NE 68702

SHIP TO: NORFOLK IRON AND METAL-GREELY
3181 W. 39th I⁷/₂
RECEIVING HRS 8:00AM 3:00PM
GILH, CO 80624

CUSTOMER PO#: 03054943
BILL OF LADING: 71872
DATE: 10/27/05

10/27/2005

Item Description	Heat#	Yield	Tensile	Ring	C	Mn	P	S	SI	Cu	Ni	Cr	V	Mo	Nb
Grade		P.S.I.	P.S.I.	% 8" Wt./Ft											
5 X 3 X 1/2 A87M A36-05 ABMSA36	157561	48,436	69,885	36.0 00	.12	.85	.022	.032	.27	.36	.12	.24	.008	.037	.001
3/8 X 1 3/4 A87M A36-05 ABMSA36	256380	51,263	70,788	26.0 00	.13	.72	.019	.033	.20	.42	.09	.14	.005	.024	.005
7/8 HR ROUND A87M A36-05 ABMSA36	257312	49,344	71,699	27.0 00	.16	.73	.015	.039	.19	.25	.10	.11	.005	.032	.005
5/16 X 6 A87M A36-05 ABMSA36	156527	48,741	68,451	33.0 00	.12	.69	.019	.048	.18	.31	.09	.12	.005	.034	.005

Scott J. Laurenti
Scott Laurenti
PLANT METALLURGIST QUALITY ASSURANCE MANAGER
NSU-39-R-805

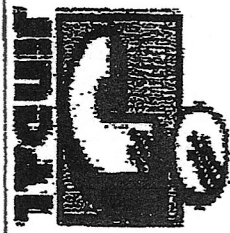
WE CERTIFY THAT ALL MANUFACTURING PROCESSES, INCLUDING MELTING OCCURRED IN THE UNITED STATES. ALL OF THE MATERIAL PRODUCED IS MADE FROM SCRAP STEEL AND IRON. ALL PRODUCTS PRODUCED ARE WELD FREE.

CHAPPEL STEEL CO.
 LAMINATED TIMBERLINE STEEL
 12100 WASHINGTON ST
 P.O. BOX 10000
 SPRING HOUSE, PA 19477-1000

FORM 113761

Certificate of Mill Test Results
 (See 113761-155-001)

Job # 001



Jindal United Steel Corporation
 5200 E. McKinney Road
 Baytown, TX 77520
 METALLURGICAL TEST REPORT

MKT-04
 JC No.: BR57185-4116-01

Sold To:
 CHAPPEL STEEL CO.
 590 NORTH BETHLEHEM PIKE
 P.O. BOX 1000
 SPRING HOUSE, PA 19477-1000

Ship To:
 CHAPPEL STEEL
 HEAL TRACK 708 YARD 11
 INDIAN OAKS, IL
 BOURBONNAIS, IL 60914

This is to certify that the product described herein was manufactured, sampled, and tested in accordance with the specifications and requirements in such specifications as: Fine Grain, Si-Al, Pully Killed Steel

Bulletin Num. 57185

Order No: JUS2258-03
 Date: 9/21/2006
 P.O. Number: CHI-4889
 Approved By: *Aguelino / Amargo*
 Shipping Weight: 3.13 / EN 10204 3.1.B
 Jasp.

Specifications:
 HOT ROLL(B) PLATE CURVEDGE ASTM/A516-05/SAS16-05 GR70 DVA, TO 65
 PRESSURE VESSEL QUALITY

Item No.	Material Description			Bulletin		Heat No.	Gauge	Tent. Plate Intensity	Heat Cond	Yield Point (KSI)	Tensile Strength (KSI)	Elongation (%)		Yield Strength Determined at
	Gauge	Width	Length	Qty	Wgt							In 8"	In 2"	
03	0.5000	96.0000	480.0000	2	13.068	504116	0.500	100-A	100-B	53	80	24	24	0.2%
Heat No. 504116														
Test Type: C Mn P S Si Cu Ni Cr Mo Sn Al N V B Ti Cb														
VALUES: 0.24 1.11 0.014 0.004 0.21 0.02 0.03 0.06 0.010 0.001 0.038 0.006 0.005 0.0005 0.005 0.010														

BR 12-29-08

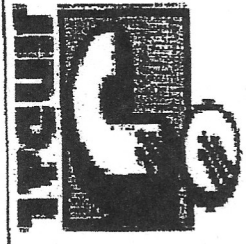
Max II

PLATE SA516-GR 70
1/2" X 96.0000" X 240.0000"
PART NO.

Alloy

MET-04

TC No.: BR57185-4116-01



Jindal United Steel Corporation
5200 E. McKinney Road
Baytown, TX 77520
METALLURGICAL TEST REPORT

Sold To:
CHAPEL STEEL CO.
590 NORTH BETHLEHEM PIKE
P.O. BOX 1000
SPRING HOUSE, PA 19477-1000

Ship To:
CHAPEL STEEL
RAIL TRACK 708 YARD 11
INDIAN OAKS, IL
BOUSSONNAIS, IL 60914

This is to certify that the product described herein was manufactured, sampled, and tested in accordance with the specifications and requirements in such specifications Fine Grain, Si-Al Fully Killed Steel

Bulletin Num. 57185

Order No: JUS2258-03

Approved By: *[Signature]*

Plates Manufactured in the USA

Date 9/21/2006

P.O. Number CH1-4889

Shipping Modes: RAIL
DIN 50049 3.1.B / EN 10204 3.1.B

Specifications:
HOT ROLL'D PLATE CUT EDGE ASTM/ASME A516-05/SA516-05 GR70 DUAL TO 65
PRESSURE VESSEL QUALITY

Item No.	Material Description	Bulletin	Heat No.	Gauge Toler.	Test/Plate Identity	Test Cond	Yield Point (KSI)	Tensile Strength (KSI)	Elongation (%)		Yield Strength Determined at																																																								
									in 8"	in 2"																																																									
03	96.0000	480.0000	2	13.068	S04116	0.500	0.500	100-A 100-B	AR	53	80	80	24	24	0.2%	0.2%																																																			
<table border="1"> <tr> <td>Heat No. S04116</td> <td>CE:0.44</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Test Type</td> <td>C</td> <td>Min</td> <td>P</td> <td>S</td> <td>SI</td> <td>Cu</td> <td>NI</td> <td>Cr</td> <td>Mo</td> <td>Sn</td> <td>Al</td> <td>N</td> <td>V</td> <td>B</td> <td>TI</td> <td>Cb</td> </tr> <tr> <td>1. ADLBE</td> <td>0.24</td> <td>1.11</td> <td>0.014</td> <td>0.004</td> <td>0.21</td> <td>0.02</td> <td>0.03</td> <td>0.06</td> <td>0.010</td> <td>0.001</td> <td>0.038</td> <td>0.006</td> <td>0.005</td> <td>0.0005</td> <td>0.005</td> <td>0.010</td> </tr> </table>																	Heat No. S04116	CE:0.44																Test Type	C	Min	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	TI	Cb	1. ADLBE	0.24	1.11	0.014	0.004	0.21	0.02	0.03	0.06	0.010	0.001	0.038	0.006	0.005	0.0005	0.005	0.010
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1. ADLBE	0.24	1.11	0.014	0.004	0.21	0.02	0.03	0.06	0.010	0.001	0.038	0.006	0.005	0.0005	0.005	0.010																																																			

mailed 8/10/2016

BB 12-9-07

NUCOR

P.O. Box 279
Wilmington, NC 27986
(252) 386-3700

Mill Test Report

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NUCOR
It's Our Nature.

PLATE MILL

Issuing Date : 02/01/2008

B/L No. : 190452

Load No. : 192352

Our Order No. : 60874/8

Cust. Order No. : 467326-9

Vehicle No: TPX 81615

Sold To : SUPERIOR SUPPLY & STEEL
C/O RICHARSON
CITY DOCKS
TRACK 200/423
HOUSTON, TX 77092

Ship To : SUPERIOR SUPPLY & STEEL (CATOOSA)
PORT OF CATOOSA
CATOOSA, OK 74016

Specification : 0.7500" x 96.000" x 480.000"
ASTM A516 70-06/ASME SA516 70-80 PVQ 2007

Marking :

Heat No	C	Min	P	S	SI	Cu	NI	Cr	Mo	Alz	V	Nb	TI	N	Ca	B	Sn	CEQ	PCN
8100904	0.19	1.02	0.012	0.003	0.19	0.30	0.07	0.05	0.01	0.023	0.001	0.001	0.001		0.0005	0.0001	0.012	0.40	0.21

Tensile Test

Plate Serial No	Platase	Tons	Dir.	Yield (psi)	Tensile (psi)	Elongation % In 2"	Elongation % In 8"
8100904-06	3	14.70	T	62,400	75,300		21.6
8100904-07	4	19.60	T	46,800	75,300		21.6
8100904-08	3	14.70	T	46,700	73,900		20.2

Charpy Impacts

Dir.	1 shear (%)	2 shear (%)	3 shear (%)	Ave. shear (%)	Size	Temp	Ave. Min

SAT. OADR
7-20-08

KIRINEE DORNE CONNER

MUDRINDO
WALL
WALL

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material. We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate as-rolled, unless otherwise noted in Specification. Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/5)+(Cr+Mo+V)/5+(Cu+Ni)/5
Pen = C+(S/30)+(Mn/20)+(Cu/20)+(V/50)+(Nb/15)+(Ti/10)+B
Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0885-09), PED 97/23/EC 7/2 Annex 1, Para. 4.3 Compliant.
DIN 50049 3.1, BEN 10204 3.1B(2004), DIN EN 10204 3.1(2005) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPDA-182
T. A. Deparis, Metallurgist
02/04/2008 9:53:05 AM

FORM P-4 MANUFACTURERS' PARTIAL DATA REPORT
As Required by the Provisions of the ASME Code Rules, Section I

1/2" SHELL x 144" LG

1. Manufactured by WESTERN STEEL & BOILER CO. 4751 FOX STREET DENVER CO 80216 P-4 ID No. 36827
 (Name and address of manufacturer)

2. Manufactured for WASATCH RAILROAD CONTRACTORS. 904 EAST FOX FAIR #7, CHEYENNE, WY 82007
 (Name and address of purchaser)

3. Identification of Part(s)

Name of Part	Quantity	Line No.	Mfr's Identifying Numbers	Manufacturer's Drawing No.	CRN	National Board No.	Year Built
SHELL	1	6a-1	36827	-	-	-	2008
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

4. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE.
 The design (as indicated on line 14, Remarks), construction and workmanship conform to ASME Rules, Section I of ASME Boiler and Pressure Vessel Code.
2007 Addenda to -, and Code Cases -
 (Year) (Date) (Numbers)

6. (a) Drums:

No.	Inside Diameter, in.	Inside Length ft. in.	Shell Plates			Tubesheets		Tube Hole Ligament Efficiency, %	
			Mat'l. Spec. No., Grade	Thickness, in.	Inside Radius, in.	Thickness, in.	Inside Radius, in.	Longitudinal	Circumferential
1	39.25	12'-0"	SA-516 Gr70	0.50	19.625	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-

No.	Longitudinal Joints		Circum. Joints		Heads					Hydrostatic Test, psi.
	No. & Type*	Efficiency	No. & Type	Efficiency	Mat'l. Spec. No., Grade	Thickness, in.	Type**	Radius of Dish	Manholes No. Size	
1	WELDED	100	WELDED	100	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-

*Indicate if (1) Seamless; (2) Fusion welded.

**Indicate if (1) Flat; (2) Dished; (3) Ellipsoidal; (4) Hemispherical

6. (b) Boiler tubes:

Diameter	Thickness	Mat'l. Spec. No., Grade
-	-	-
-	-	-
-	-	-
-	-	-

6. (c) Headers no. _____
 (Box or sinuous or round, Mat'l. spec. no.; Thickness)
 Heads or Ends _____ Hydro. Test, psi _____
 (Shape; Mat'l. spec. no.; Thickness)

6 (d) Staybolts _____
 (Mat'l. spec. no.; Diameter; Size telltale; Net area)
 Pitch _____ in. Net Area _____ in.² MAWP _____ psi
 (Hor. and Vert.) (Supported by one bolt)

6. (e) Mud Drum: _____ Heads or Ends _____ Hydro. Test, psi _____
 (For sect. header boilers, State size; Shape; Mat'l. spec. no.; Thickness) (Shape; Mat'l. spec. no.; Thickness)

7. (a) Waterwall Headers:

No.	Size and Shape	Material Spec. No.	Thickness, in.	Heads or Ends			Hydro. Test, psi.	Diameter, in.	Thickness, in.	Material Spec. No.
				Shape	Thickness, in.	Material Spec. No.				
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

7(b) Waterwall Tubes

Handwritten:
10/3/04

NUCOR

P.O. Box 279
Winton, NC 27986
(252) 356-3700

PLATE MILL

P.O. Box 279
Winton, NC 27986
(252) 356-3700

Mill Test Report

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Issuing Date : 06/16/2008
Vehicle No: ALY 91780
Specification : 0.2500" x 96.000" x 240.000"
ASTM A516 70-06/ASME SA516 70-90 PIV 2007

Load No. : 206364
Sold To : RANGER STEEL SERVICES LP
1225 NORTH LOOP W, STE 660
HOUSTON, TX 77008

Our Order No. : 6426019
Ship To : RANGER STEEL
C/O KINDERMORTX
9640 CLINTON DRIVE
ZONE 23 TRACK 415
HOUSTON, TX 77245

Cust. Order No. : 6535

Marking :

Heat No	C	Mn	P	S	SI	CU	NI	Cr	Mo	Al	V	Nb	TI	N	Ca	B	- Sn	CEQ	PCM	
8104666	0.20	1.08	0.014	0.007	0.21	0.25	0.07	0.12	0.02	0.037	0.003	0.002	0.004	0.0098	0.0004	0.0002	0.015	0.43	0.28	
8104679	0.20	1.06	0.010	0.002	0.19	0.27	0.08	0.08	0.02	0.024	0.003	0.004	0.003	0.0001	0.0001	0.0001	0.011	0.42	0.28	
Tensile Test																				
Plate Serial No	Plates	Tons	Dir.	Yield	Tensile	Elongation % In 2"	Elongation % In 8"	Charpy Impacts												Min
8104666-07	8	19.60	T	63,100	74,500	25.1	25.1	Dir.	1	shear	2	shear	3	shear	Ave.	shear	Size	Temp	Ave.	
8104679-04	10	24.50	T	46,900	77,300	21.3	21.3													

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or yield repair was not performed on this material. Memory has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate as-rolled, unless otherwise noted in Specification.

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

Per = C+(S)(90)X(Mn)(20)X(Cu)(20)X(Ni)(20)X(Cr)(20)X(Mo)(15)X(V)(10)X(Sb)X(Nb)(10)X(Ti)(10)X(N)X16

Milled and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09), PED 9723/EC 712 Annex 1, Para. 4.3 Compliant. DIN 50048 3.1, EN 10204 3.1B(2004), DIN EN 10204 3.1(2005) compliant. For ABS grades only, Quality Assurance certificate No. 03-MMP-QA-182

RANGER STEEL SUPPLY CORP.
Q.C. APPROVED

T. A. Depreis
T. A. Depreis, Metallurgist

06/17/2008 9:56:56 AM

30 Apr 08 *sh*