

DATE	7/23/12
INVOICE NO.	496578
BILL OF LADING	75260
CUSTOMER NO.	7142
CUSTOMER P.O.	4500090599

**NUCOR-YAMATO STEEL CO.**  
P.O. BOX 1228 • BLYTHEVILLE, AR 72316

**CERTIFIED MILL TEST REPORT**

100% MELTED AND MANUFACTURED IN U.S.A.  
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

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FORTACERO C/O PAGE & JONES  
251-432-1646 RULL 11 TO CGT  
52 N JACKSON ST FIN DEST VERACRUZ  
MOBILE, AL 36602

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S  
ASTM A992/A992M-11 A572/A572M GR50-07  
ASTM A709/A709M-11 GR50 (345)  
ASTM A709/A709M-11 GR50S (345S)  
ASTM A6/A6M-11

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FORTACERO S.A. DE CV  
BLVD CARLOS SALINAS DE GORTARI  
KM 8.8  
APODACA, N.L. MEXICO 66600

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES							CHEMICAL PROPERTIES												
				YIELD TO TENSILE RATIO	YIELD STRENGTH	TENSILE STRENGTH	ELONG	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE		
					PSI	PSI		%	TEMP													IMPACT ENERGY	
					MPa	MPa		%	* F													FT-LBS	
1	W14 - 34.0 40' W360 x 51.0 12.192 M	5	387551	.79	55000	70000	24				.08	.90	.016	.026	.24	.29	.11	.08	.03	.00	.016	.28	
				.77	55000	71000	26												.01	.16			
						379	483	24															
						379	490	26															
2	W14 - 34.0 40' W360 x 51.0 12.192 M	12	387555	.77	55000	71000	27				.07	.90	.020	.029	.25	.29	.11	.11	.04	.00	.016	.28	
				.77	54000	70000	26												.01	.15			
						379	490	27															
						372	483	26															
3	W14 - 34.0 40' W360 x 51.0 12.192 M	3	387557	.77	55000	71000	24				.07	.91	.018	.030	.25	.30	.11	.13	.04	.00	.014	.28	
				.76	54000	71000	23												.01	.15			
						379	490	24															
						372	490	23															
4	W24 - 68.0 40' W610 x101.0 12.192 M	19	389711	.80	56000	70000	29				.07	1.00	.015	.029	.25	.28	.11	.10	.04	.00	.015	.30	
				.79	56000	71000	27												.01	.15			
						386	483	29															
						386	490	27															
5	W24 - 68.0 40' W610 x101.0 12.192 M	2	389714	.80	53000	69000	28				.08	.97	.018	.021	.24	.27	.10	.10	.03	.00	.017	.29	
				.78	53000	68000	27												.01	.16			
						379	476	28															
						365	469	27															
6	W24 - 76.0 40' W610 x113.0 12.192 M	4	389724	.82	58000	71000	29				.08	.99	.015	.023	.24	.26	.12	.11	.03	.00	.018	.31	
				.76	55000	72000	28												.01	.16			
						400	490	29															
						379	496	28															
7	W24 - 76.0 40' W610 x113.0 12.192 M	3	389729	.79	57000	72000	27				.08	1.00	.013	.025	.25	.27	.12	.13	.03	.00	.018	.31	
				.78	57000	73000	27												.01	.17			
						393	496	27															
						393	503	27															
8	W24 - 76.0 40' W610 x113.0 12.192 M	6	389731	.79	55000	70000	26				.09	.99	.014	.025	.27	.28	.12	.12	.04	.00	.018	.32	
				.79	55000	70000	27												.01	.18			
						379	483	26															
						379	483	27															
9	W24 - 76.0 40' W610 x113.0 12.192 M	12	389734	.77	54000	70000	29				.08	.99	.010	.025	.28	.28	.12	.08	.04	.00	.015	.30	
				.78	54000	69000	27												.01	.16			
						372	483	29															
						372	476	27															

Wt% = C + Mn + Ni + Cu + Nb + Ti + V + N + H + O + S + P + Al + Si + Fe  
 CARRON EQUIVALENT: CE = CE(IV) = C + Mn/6 + (Cr+Ni)/5 + (Ni+Cu)/15  
 Material has not been used in the direct manufacturing of this material.

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

*Daugh Lemell*

QUALITY ASSURANCE

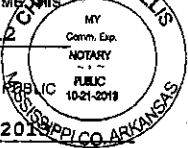
CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI  
 SWORN TO AND SUBSCRIBED BEFORE ME

23 Day of 07/12

*Charlene Wallis*

NOTARY PUBLIC



MY COMMISSION EXPIRES 10/21/2019