DATE	11/14/11
INVOICE NO.	444725
BILL OF LADING	44393
CUSTOMER NO.	0829
CUSTOMER P.O.	4500082382

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.

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

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

SPECIFICATIONS
ASTM A992/A992M-06a A572/A572M GR50-07
ASTM A709/A709M-09 GR50 (345)
ASTM A709/A709M-09 GR50S (345S)
ASTM A6/A6M-09

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES						CHEMICAL PROPERTIES												
				YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	CHARPY IMPACT ENERGY FT-LBS / JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W14 - 90.0 40' W360 x134.0 12.192 M	3	375078	.81	59000	73000	26			.07	1.10	.016	.024	.24	.27	.10	.11	.03	.00	.019	.30
				.78	57000	73000	25											.01	.16		
					407	503	26														
					393	503	25														
2	W14 - 90.0 40' W360 x134.0 12.192 M	3	375104	.80	56000	70000	27			.07	1.01	.022	.025	.22	.28	.09	.15	.03	.00	.019	.30
				.82	58000	71000	25											.01	.16		
					386	483	27														
					400	490	25														
3	W14 - 90.0 40' W360 x134.0 12.192 M	1	375105	.82	59000	72000	26			.08	1.00	.019	.025	.24	.30	.10	.13	.03	.00	.019	.31
				.81	56000	69000	25											.01	.17		
					407	496	26														
					386	476	25														
4	W14 - 90.0 40' W360 x134.0 12.192 M	5	375116	.79	58000	73000	24			.07	1.25	.016	.020	.25	.29	.12	.13	.04	.03	.010	.35
				.81	60000	74000	25											.01	.17		
					400	503	24														
					414	510	25														
5	W14 - 90.0 40' W360 x134.0 12.192 M	4	375118	.79	57000	72000	24			.07	1.20	.015	.020	.23	.31	.11	.11	.03	.04	.002	.34
				.78	57000	73000	24											.01	.17		
					393	496	24														
					393	503	24														
6	W14 - 90.0 40' W360 x134.0 12.192 M	6	375127	.80	59000	74000	25			.07	1.25	.016	.022	.25	.30	.11	.15	.03	.02	.010	.35
				.81	60000	74000	25											.01	.17		
					407	510	25														
					414	510	25														
7	W14 - 90.0 40' W360 x134.0 12.192 M	7	375129	.78	58000	74000	23			.08	1.25	.016	.023	.25	.30	.10	.14	.03	.02	.008	.36
				.80	59000	74000	25											.01	.18		
					400	510	23														
					407	510	25														
8	W14 - 90.0 40' W360 x134.0 12.192 M	3	375130	.79	58000	73000	25			.07	1.28	.017	.023	.22	.29	.10	.12	.03	.03	.010	.35
				.77	57000	74000	25											.01	.17		
					400	503	25														
					393	510	25														
9	W14 - 90.0 40' W360 x134.0 12.192 M	5	375132	.81	59000	73000	24			.07	1.25	.018	.022	.24	.29	.10	.14	.03	.02	.009	.35
				.80	59000	74000	25											.01	.17		
					407	503	24														
					407	510	25														

CARBON EQUIVALENT: CE = CEIIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
Mercury 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.

Doug Lemell
QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
14 Day of 11/11
Charlene Wallis NOTARY PUBLIC
MY COMMISSION EXPIRES 10/21/2013

CHARLENE WALLIS NOTARY PUBLIC MY Comm. Exp. 10-21-2013 MISSISSIPPI CO. ARKANSAS