DATE	5/26/12
INVOICE NO.	485262
BILL OF LADING	68524
CUSTOMER NO.	0829
CUSTOMER P.O.	4500088030

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 GULF STREAM MARINE
PORT OF BROWNSVILLE

BROWNSVILLE, TX

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

SOLD TO
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: YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	IMPACT ENERGY FT-LBS / JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W08 - 24.0	14	386137	.75	52000	69000	25			.07	.91	.018	.028	.22	.28	.10	.14	.03	.00	.014	.28
	40'			.75	52000	69000	26											.01	.15		
	W200 x 35.9				359	476	25														
	12.192 M				359	476	26														
2	W08 - 24.0	23	386168	.75	54000	72000	24			.08	1.01	.018	.027	.27	.27	.12	.11	.03	.00	.015	.31
	40'			.75	55000	73000	25											.01	.17		
	W200 x 35.9				372	496	24														
	12.192 M				379	503	25														
3	W08 - 24.0	64	386170	.78	56000	72000	28			.08	1.01	.020	.030	.28	.25	.11	.13	.03	.00	.014	.30
	40'			.74	54000	73000	24											.01	.17		
	W200 x 35.9				386	496	28														
	12.192 M				372	503	24														
4	W08 - 24.0	28	386172	.77	55000	71000	25			.08	1.00	.017	.027	.25	.24	.10	.12	.03	.00	.014	.30
	40'			.75	54000	72000	26											.01	.16		
	W200 x 35.9				379	490	25														
	12.192 M				372	496	26														
5	W08 - 24.0	6	386175	.77	56000	73000	25			.07	1.00	.016	.027	.26	.26	.11	.09	.03	.00	.015	.28
	40'			.78	56000	72000	25											.01	.15		
	W200 x 35.9				386	503	25														
	12.192 M				386	496	25														
6	W08 - 24.0	3	386177	.77	57000	74000	25			.08	1.01	.022	.024	.25	.27	.10	.13	.03	.00	.014	.30
	40'			.78	56000	72000	26											.01	.17		
	W200 x 35.9				393	510	25														
	12.192 M				386	496	26														
7	W08 - 24.0	7	386180	.76	56000	74000	25			.07	1.00	.017	.020	.25	.28	.11	.12	.03	.00	.014	.30
	40'			.76	55000	72000	25											.01	.15		
	W200 x 35.9				386	510	25														
	12.192 M				379	496	25														
8	W08 - 24.0	1	386182	.80	56000	70000	26			.07	1.01	.016	.029	.25	.26	.11	.13	.03	.00	.014	.29
	40'			.76	54000	71000	27											.01	.15		
	W200 x 35.9				386	483	26														
	12.192 M				372	490	27														
9	W08 - 24.0	44	386184	.76	55000	72000	26			.08	1.01	.017	.027	.25	.28	.10	.15	.03	.00	.014	.32
	40'			.74	54000	73000	25											.01	.17		
	W200 x 35.9				379	496	26														
	12.192 M				372	503	25														

Pcm = C + Si/30 + Mn/20 + Cu/20 + Ni/60 + Cr/20 + Mo/15 + V/10 + 5 B Ba/Aqpcm ,XXS

CARBON EQUIVALENT: CE = CE(IIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni +Cu)/15
Mercury has not been used in the direct manufacturing of this material.

Corrosion Index: CI=26.01(%Cu)+3.88(%Ni)+1.20(%Cr)+1.49(%Si)+17.28(%P)-7.29(%Cu)(%Ni)-9.10(%Ni)(%P)-33.39(%Cu)²

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.

Gary Lemmell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
29 Day of 05/12

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2012

CHARLENE WALLIS
MISSISSIPPI CO. ARKANSAS