DATE	10/06/08
INVOICE NO.	265616
BILL OF LADING	932714
CUSTOMER NO.	5446
CUSTOMER P.O.	12862

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
FERRE C/O LOGISTICA INTEGRAL EN
ESPUELA O ESCAPE #06-717-94
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

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

39104

SOLD TO
FERRE BARNIEDO, S.A. DE C.V.
AV REVOLUCION #81 COL SAN CRISTOBAL
ECATEPEC DE MORELOS
EDO, MEXICO CP 55000

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	CHEMICAL PROPERTIES: C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
	36 -231.0	1	326605	.76	57000	75000	28			.08	1.21	.018	.025	.25	.35	.10	.11	.03	.00	.024	.34
	45'			.76	56000	74000	29											.01	.18		
	W920 x343.7				393	517	28														
	13.716 M				386	510	29														
2	W36 -231.0	1	326606	.74	55000	74000	29			.08	1.20	.017	.020	.24	.30	.11	.11	.03	.00	.023	.34
	45'			.77	56000	73000	29											.01	.18		
	W920 x343.7				379	510	29														
	13.716 M				386	503	29														
3	W36 -231.0	1	326608	.76	55000	72000	30			.08	1.20	.016	.022	.24	.28	.11	.13	.03	.00	.022	.34
	45'			.79	58000	73000	30											.01	.17		
	W920 x343.7				379	496	30														
	13.716 M				400	503	30														
4	W36 -231.0	2	326611	.77	57000	74000	29			.08	1.22	.015	.022	.24	.30	.10	.10	.03	.00	.024	.34
	45'			.76	57000	75000	29											.01	.18		
	W920 x343.7				393	510	29														
	13.716 M				393	517	29														
5	W36 -231.0	1	326636	.77	56000	73000	29			.08	1.21	.018	.028	.26	.29	.11	.14	.03	.00	.024	.34
	45'			.75	55000	73000	28											.01	.17		
	W920 x343.7				386	503	29														
	13.716 M				379	503	28														

FERRE BARNIEDO S.A. DE C.V.
ESTE CERTIFICADO ES COPIA FIEL
DEL ORIGINAL DE NUESTROS ARCHIVOS,
AMPARA LA REMISION No.
TEL. 58-36-10-00 ventas@ferrebarniedo.com.mx

$Pcm = C + \frac{Si}{30} + \frac{Mn}{20} + \frac{Cu}{20} + \frac{Ni}{60} + \frac{Cr}{20} + \frac{Mo}{15} + \frac{V}{10} + 5B$ B=Appm x .0005

CARBON EQUIVALENT: $CE = CE(IIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15$

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 Lennell
QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 6 Day of 10/08

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

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