DATE	2/08/10
INVOICE NO.	334886
BILL OF LADING	976997
CUSTOMER NO.	5446
CUSTOMER P.O.	40521

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 AA RICARDO CLARK Y RODRIG
INDEPENDENCIA 3622
FINAL: SAN LUIS POTOSI, SLP MX
NUEVO LAREDO, TM 88000

SPECIFICATIONS:
ASTM A992/A992M-06a A572/A572M GR50-07
ASTM A709/A709M-09 GR50 (345)
ASTM A709/A709M-09 GR50S (345S)
ASTM A6/A6M-08a

41636

SOLD TO:
FERRE BARNIEDO, SA DE CV
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
	W08 - 48.0	11	343497	.78	57000	73000	26			.07	1.12	.013	.035	.34	.31	.11	.09	.03	.00	.026	.31
	40'			.79	58000	73000	26											.01	.16		
	W200 x 71.0				393	503	26														
	12.192 M				400	503	26														
2	W08 - 48.0	79	343499	.79	57000	72000	26			.08	1.10	.012	.031	.28	.34	.10	.09	.03	.00	.024	.31
	40'			.79	57000	72000	26											.01	.17		
	W200 x 71.0				393	496	26														
	12.192 M				393	496	26														
3	W08 - 48.0	2	343501	.79	58000	73000	26			.07	1.10	.012	.032	.28	.28	.09	.10	.03	.00	.024	.30
	40'			.81	59000	73000	26											.01	.16		
	W200 x 71.0				400	503	26														
	12.192 M				407	503	26														

Pcm = C + Si/30 + Mn/20 + Cu/20 + Ni/60 + Cr/20 + Mo/15 + V/10 + 5 B Boraggregate .0005

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 Lennell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
8 Day of 02/10

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

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

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