

NUCOR-YAMATO STEEL CO.

P O BOX 1228
 BLYTHEVILLE AR 72316

DATE
 6/25/06

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.

SOLD TO

FERRE BARNIEDO, S.A. DE C.V.
 AV REVOLUCION NO 81
 SAN CRISTOBAL ECATEPEC
 EDO DE MEXICO 55000

SHIP TO

FERRE BARNIEDO C/O TAF FORWARDING
 1207 UNIROYAL DRIVE
 FINAL: SAN LUIS POTOSI, SLP MX
 LAREDO, TX

INVOICE
 54024
 BILL OF LADING
 791609

CUSTOMER NO.
 5446
 CUSTOMER P.O.
 FERRE 24 2ND

2 SPECIFICATIONS GRADE: ASTM A992/A992M-U4a A572/A572M GR50-U4 ASTM A709/A709M-03a GR50 (345)
 ASTM A709/A709M-03a GR50S (345S) ASTM A6/A6M-05a

31458

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES										
				YIELD TO TENSILE RATIO	YIELD STRENGTH F _Y MPa	TENSILE STRENGTH F _T MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE	
								TEMP F	IMPACT ENERGY FT-LBS													Sn
1	W14 -120.0 40' P1415179 I W360 x179.0 12.192 M	3	275678	.76	55000	72000	26				.081	.31	.020	.024	.25	.30	.15	.12	.04	.04	.002	.37
2	W14 -120.0 40') W360 x179.0 12.192 M	8	275680	.79	58000	73000	25				.081	.31	.021	.021	.24	.28	.12	.13	.04	.04	.001	.37
3	W14 -120.0 40') W360 x179.0 12.192 M	5	275682	.77	55000	71000	23				.081	.33	.021	.025	.20	.28	.12	.11	.04	.04	.002	.37
4	W14 -120.0 40') W360 x179.0 12.192 M	2	275684	.77	53000	69000	25				.061	.34	.020	.025	.21	.30	.14	.10	.04	.04	.002	.35
5	W14 -120.0 40') W360 x179.0 12.192 M	11	275895	.76	54000	71000	26				.081	.30	.019	.019	.21	.29	.10	.10	.03	.00	.017	.36
6	W14 -120.0 40') W360 x179.0 12.192 M	4	275896	.76	54000	73000	25				.081	.31	.019	.021	.23	.32	.11	.11	.03	.00	.017	.34
7	W14 -120.0 40') W360 x179.0 12.192 M	3	275898	.76	55000	73000	26				.071	.30	.020	.023	.25	.28	.10	.10	.03	.00	.021	.36

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

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH CARBON EQUIVALENT CE = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
 Pcm=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B D-approx .005
 Corrosion Index: CI=26.01(%CU)+3.88(%NI)+1.2(%CR)+1.49(%SI)+17.28(%P)-7.29(%CU)(%NI)-9.10(%NI)(%P)-33.39(%CU)²

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, and when designated by the purchaser, meet the applicable specifications.

GARY PENNELL
 QUALITY ASSURANCE

STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME THIS
 Day of _____ NOTARY PUBLIC