

DATE	6/09/08
INVOICE NO.	234657
BILL OF LADING	912545
CUSTOMER NO.	8446
CUSTOMER P.O.	2992

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.

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

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ASTM A992/A992M-06a A572/A572M GR50-06
ASTM A709/A709M-07 GR50 (345)
ASTM A709/A709M-07 GR50S (345S)
ASTM A6/A6M-07
38127

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

9141509940E

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	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE	
4	- 99.0	3	319234	.76	56000	76000	24	.08	.35	.014	.017	.25	.28	.13	.11	.04	.05	.002	.38	
40'	W360 x147.0			.78	59000	76000	25									.01	.19			
	12.192 M				407	524	24													
2	W14 - 99.0	1	319252	.79	60000	76000	25	.08	.38	.023	.021	.26	.29	.10	.13	.03	.05	.002	.38	
40'	W360 x147.0			.78	59000	76000	24									.01	.19			
	12.192 M				414	524	25													
					407	524	24													

TELEAMBIENTE ORIGINAL BARNIEDO, S.A. DE C.V. COPIA DE FIEL ARCHIVOS.
 REMISION DE NUESTROS ARCHIVOS.
 ventas@ferrebarniedo.com.mx

Pcm = C + Si + Mn + Cu + Ni + Cr + Mo + V + S + B - Approx. 0003
 CARBON EQUIVALENT: CE = C2(IW) = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15
 Correction Index: CI = 26.01(%Cu) + 3.88(%Ni) + 1.20(%Cr) + 1.49(%Si) + 17.28(%P) - 7.23(%Cu)(%Ni) - 8.10(%Ni)(%P) - 33.35(%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.

Doug Lemell
QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS

9 Day of 06/08

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2018

