DATE	11/08/11
INVOICE NO.	443707
BILL OF LADING	43661
CUSTOMER NO.	0829
CUSTOMER P.O.	4500082382

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 PAGE & JONES
251-432-1646
52 N JACKSON ST FIN DEST VERACRUZ
MOBILE, AL 36602

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

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	CHEMICAL PROPERTIES: C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W10 - 45.0	9	374090	.72	52000	72000	26			.07	1.04	.017	.035	.23	.30	.13	.09	.03	.00	.015	.29
	40'			.72	51000	71000	25											.01	.16		
	W250 x 67.0				359	496	26														
	12.192 M				352	490	25														
2	W10 - 45.0	5	374094	.74	54000	73000	25			.07	1.00	.021	.032	.27	.31	.11	.11	.03	.00	.016	.30
	40'			.73	52000	71000	26											.01	.16		
	W250 x 67.0				372	503	25														
	12.192 M				359	490	26														
3	W10 - 45.0	5	374096	.73	52000	71000	23			.08	1.05	.015	.029	.29	.30	.12	.11	.03	.00	.013	.32
	40'			.73	52000	71000	25											.01	.17		
	W250 x 67.0				359	490	23														
	12.192 M				359	490	25														
4	W18 - 76.0	3	375263	.79	55000	70000	27			.08	1.00	.014	.025	.25	.30	.09	.09	.03	.00	.020	.30
	40'			.81	58000	72000	29											.01	.16		
	W460 x113.0				379	483	27														
	12.192 M				400	496	29														
5	W18 - 76.0	3	375265	.79	56000	73000	26			.07	1.00	.015	.028	.23	.30	.10	.10	.03	.00	.020	.30
	40'			.82	60000	73000	25											.01	.15		
	W460 x113.0				400	503	26														
	12.192 M				414	503	25														
6	W18 - 76.0	4	375267	.80	57000	71000	26			.08	1.01	.016	.024	.22	.29	.10	.10	.03	.00	.020	.31
	40'			.81	57000	70000	26											.01	.16		
	W460 x113.0				393	490	26														
	12.192 M				393	483	26														
7	W18 - 76.0	2	375278	.80	57000	71000	26			.08	1.00	.012	.018	.21	.31	.10	.08	.03	.00	.019	.30
	40'			.80	57000	71000	27											.01	.16		
	W460 x113.0				393	490	26														
	12.192 M				393	490	27														

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.

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 Stock above.

Guy Lemell
QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
8 Day of 11/11

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2015

CHARLENE WALLIS
MY Comm. Exp. 10-21-2015
NOTARY PUBLIC
MISSISSIPPI CO. ARKANSAS