DATE	4/29/09
INVOICE NO.	293100
BILL OF LADING	950701
CUSTOMER NO.	5446
CUSTOMER P.O.	24017

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 GR50-06
ASTM A709/A709M-07 GR50 (345)
ASTM A709/A709M-07 GR50S (345S)
ASTM A6/A6M-07

4663

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
1	W36 -262.0	1	327379	.77	58000	75000	26			.07	1.35	.023	.019	.24	.32	.11	.14	.03	.05	.002	.37
	0'			.77	58000	75000	26											.01	.19		
	W920 x389.9				400	517	26														
	12.192 M				400	517	26														
2	W36 -262.0	2	332368	.77	57000	74000	29			.08	1.10	.010	.020	.23	.28	.11	.10	.03	.00	.021	.32
	40'			.77	56000	73000	30											.01	.17		
	W920 x389.9				393	510	29														
	12.192 M				386	503	30														
3	W36 -262.0	1	332375	.77	55000	71000	31			.07	1.10	.012	.024	.24	.27	.09	.10	.02	.00	.019	.29
	40'			.77	55000	71000	31											.01	.16		
	W920 x389.9				379	490	31														
	12.192 M				379	490	31														
4	W36 -262.0	1	332377	.74	53000	72000	28			.09	1.10	.013	.024	[illegible]	.25	.08	.11	.02	.00	.019	.32
	40'			.76	54000	71000	30											.01	.18		
	W920 x389.9				365	496	28														
	12.192 M				372	490	30														
5	W36 -262.0	1	334008	.76	55000	72000	30			.07	1.22	.016	.028	.23	[illegible]	.11	.14	.03	.00	.023	.33
	40'			.76	55000	72000	30											.01	.16		
	W920 x389.9				379	496	30														
	12.192 M				379	496	30														
6	W36 -262.0	1	334009	.76	55000	72000	30			.08	1.20	.012	.028	.21	.28	.11	.12	.03	.00	.023	.34
	40'			.76	55000	72000	30											.01	.17		
	W920 x389.9				379	496	30														
	12.192 M				379	496	30														
7	W36 -262.0	2	334014	.76	55000	72000	29			.07	1.20	.011	.027	.25	.27	.14	.13	.04	.00	.024	.33
	40'			.78	56000	72000	29											.01	.16		
	W920 x389.9				379	496	29														
	12.192 M				386	496	29														
8	W36 -262.0	2	334015	.77	56000	73000	29			.08	1.20	.013	.023	.25	.28	.14	.12	.04	.00	.024	.34
	40'			.77	56000	73000	28											.01	.17		
	W920 x389.9				386	503	29														
	12.192 M				386	503	28														
9	W36 -262.0	5	334016	.78	57000	73000	29			.07	1.25	.013	.021	.25	.28	.13	.12	.04	.03	.011	.35
	40'			.77	57000	74000	30											.01	.16		
	W920 x389.9				393	503	29														
	12.192 M				393	510	30														

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

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 29 Day of 04/09

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

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

DATE	4/29/09
INVOICE NO.	293101
BILL OF LADING	950702
CUSTOMER NO.	5446
CUSTOMER P.O.	24017

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 GR50-06
ASTM A709/A709M-07 GR50 (345)
ASTM A709/A709M-07 GR50S (345S)
ASTM A6/A6M-07

40064

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 / Cl
1	W36 -262.0	1	319029	.77	57000	74000	27			.08	1.30	.015	.026	.23	.27	.09	.11	.03	.00	.024	.35
	40'			.81	61000	75000	28											.01	.18		
	W920 x389.9				393	510	27														
	12.192 M				421	517	28														
2	W36 -262.0	1	326660	.76	58000	72000	30			.07	1.21	.018	.021	.24	.28	.11	.13	.03	.00	.024	.33
	40'			.76	55000	72000	29											.01	.16		
	W920 x389.9				379	496	30														
	12.192 M				379	496	29														
3	W36 -262.0	1	326732	.79	58000	73000	29			.07	1.21	.018	.023	.21	.29	.13	.14	.03	.00	.024	.33
	40'			.79	57000	72000	30											.01	.16		
	W920 x389.9				400	503	29														
	12.192 M				393	496	30														
4	W36 -262.0	1	326751	.79	58000	73000	28			.07	1.23	.019	.019	.22	.28	.13	.18	.03	.00	.025	.35
	40'			.77	56000	73000	28											.01	.16		
	W920 x389.9				400	503	28														
	12.192 M				386	503	28														
5	W36 -262.0	1	326949	.76	57000	75000	27			.07	1.38	.015	.019	.26	.27	.10	.11	.03	.05	.002	.36
	40'			.77	57000	74000	26											.01	.18		
	W920 x389.9				393	517	27														
	12.192 M				393	510	26														
6	W36 -262.0	1	327029	.78	59000	76000	28			.08	1.35	.022	.021	.24	.31	.10	.12	.03	.06	.002	.38
	40'			.77	58000	75000	27											.01	.20		
	W920 x389.9				407	524	28														
	12.192 M				400	517	27														
7	W36 -262.0	1	327401	.78	60000	77000	27			.08	1.35	.021	.022	.28	.29	.09	.10	.03	.05	.001	.38
	40'			.80	61000	76000	28											.01	.19		
	W920 x389.9				414	531	27														
	12.192 M				421	524	28														
8	W36 -262.0	1	330877	.77	62000	81000	24			.08	1.43	.015	.018	.25	.29	.10	.09	.03	.06	.002	.39
	40'			.76	61000	80000	23											.01	.18		
	W920 x389.9				427	558	24														
	12.192 M				421	552	23														
9	W36 -262.0	1	331613	.76	56000	74000	26			.07	1.20	.016	.026	.25	.28	.11	.15	.03	.00	.025	.34
	40'			.74	55000	74000	26											.01	.16		
	W920 x389.9				386	510	26														
	12.192 M				379	510	26														

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

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Gary Lemmell

QUALITY ASSURANCE

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SWORN TO AND SUBSCRIBED BEFORE ME THIS
29 Day of 04/09

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.
CERTIFICADO DE PRUEBAS
ORIGINAL
ARCHIVO
ventas@ferrebarniedo.com

DATE	4/29/09
INVOICE NO.	293102
BILL OF LADING	950702
CUSTOMER NO.	5446
CUSTOMER P.O.	24017

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 ● BLYTHEVILLE,AR 72316

CERTIFIED MILL TEST REPORT

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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 GR50-06
ASTM A709/A709M-07 GR50 (345)
ASTM A709/A709M-07 GR50S (345S)
ASTM A6/A6M-07

HL66

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 / Cl
1	W36 -262.0	1	333545	.75	51000	68000	28			.08	1.23	.009	.025	.21	.26	.13	.09	.04	.04	.002	.35
	40'			.76	55000	72000	27											.01	.16		
	W920 x389.9				352	469	28														
	12.192 M				379	496	27														

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

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Gary Lemell

QUALITY ASSURANCE

CUSTOMER COPY

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SWORN TO AND SUBSCRIBED BEFORE ME THIS 29 Day of 04/09

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

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

ESTE DOCUMENTO ES COPIA FIEL DEL ORIGINAL QUE TENGO EN MI ARCHIVO
DF. ANGARA
FEL 58.36.10.00
FERRE@terra.com.mx