DATE	8/06/10
INVOICE NO.	361439
BILL OF LADING	994038
CUSTOMER NO.	5446
CUSTOMER P.O.	49623

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
FB C/O JORGE MIGUEL MEDRANO SANCHEZ
HIDALGO 3530 PAT 4100
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-09

42605

SOLD TO
FERRE BARNIEDO, SA DE CV
AV REVOLUCION #81 COL SAN CRISTOBAL
ECATEPEC DE MOREROS
EDO, MEXICO CP 55000

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	IMPACT ENERGY FT-LBS / JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W24 -104.0	3	351928	.80	56000	70000	27			.07	.01	.014	.026	.25	.32	.14	.11	.03	.00	.021	.30
	10'			.80	56000	70000	27											.01	.16		
	W610 x155.0				386	483	27														
	12.192 M				386	483	27														
2	W24 -104.0	1	351937	.78	58000	74000	26			.07	1.00	.014	.020	.23	.35	.12	.13	.03	.00	.020	.30
	40'			.80	59000	74000	28											.01	.16		
	W610 x155.0				400	510	26														
	12.192 M				407	510	28														
3	W24 -104.0	3	351938	.81	58000	72000	28			.07	1.01	.017	.027	.21	.34	.12	.14	.03	.00	.021	.30
	40'			.79	58000	73000	26											.01	.16		
	W610 x155.0				400	496	28														
	12.192 M				400	503	26														
4	W24 -104.0	2	351941	.78	53000	68000	27			.07	.90	.017	.019	[illegible]	[illegible]	.12	.14	.04	.00	.016	.29
	40'			.77	53000	68000	27											.01	.15		
	W610 x155.0				365	469	27														
	12.192 M				365	476	27														
5	W24 -146.0	6	351920	.78	58000	74000	25			.08	1.25	.016	.021	.27	.34	.13	.14	.03	.02	.009	.36
	40'			.77	57000	74000	25											.01	.18		
	W610 x217.0				400	510	25														
	12.192 M				393	510	25														
6	W24 -146.0	4	351923	.76	54000	71000	27			.08	1.10	.016	.021	.23	.33	.12	.11	.03	.00	.019	.32
	40'			.76	54000	71000	27											.01	.17		
	W610 x217.0				372	490	27														
	12.192 M				372	490	27														
7	W24 -162.0	2	351904	.76	55000	72000	27			.07	1.25	.014	.021	.27	.30	.15	.14	.04	.02	.010	.35
	40'			.76	55000	72000	26											.01	.17		
	W610 x241.0				379	496	27														
	12.192 M				379	496	26														
8	W24 -162.0	6	351905	.76	55000	72000	27			.08	1.12	.019	.024	.22	.34	.13	.15	.03	.00	.019	.34
	40'			.76	54000	71000	28											.02	.17		
	W610 x241.0				379	496	27														
	12.192 M				372	490	28														
9	W24 -162.0	2	351906	.76	53000	70000	28			.08	1.10	.015	.026	.23	.32	.16	.15	.03	.00	.019	.33
	40'			.76	53000	70000	26											.01	.17		
	W610 x241.0				365	483	28														
	12.192 M				365	483	26														

MECHANICAL PROPERTIES — CHEMICAL PROPERTIES

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

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.

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 6 Day of 08/10

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2018

CHARLENE WALLIS MY Comm. Exp. NOTARY PUBLIC 10-21-2018 MISSISSIPPI CO. ARKANSAS

FERRE BARNIEDO, S.A. DE C.V.
ESTE CERTIFICADO ES COPIA FIEL DEL ORIGINAL DE NUESTROS ARCHIVOS
PARA LA REMISION No. 36100
ventas@ferrebarniedo.com.mx

DATE	8/05/10
INVOICE NO.	361238
BILL OF LADING	993922
CUSTOMER NO.	5446
CUSTOMER P.O.	49623

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 ● BLYTHEVILLE,AR 72316

CERTIFIED MILL TEST REPORT

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HIDALGO 3530 PAT 4100
FINAL: SAN LUIS POTOSI, SLP MX
NUEVO LAREDO, TM 88000

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ASTM A709/A709M-09 GR50 (345)
ASTM A709/A709M-09 GR50S (345S)
ASTM A6/A6M-09

42601

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	W24 -146.0	7	351920	.78	58000	74000	25			.08	1.25	.01[illegible]	.021	.27	.34	.13	.14	.03	.02	.009	.36
	40'			.77	57000	74000	25											.01	.18		
	W610 x217.0				400	510	25														
	12.192 M				393	510	25														
2	W24 -146.0	14	351921	.78	54000	69000	26			.07	1.10	.013	.026	.24	.35	.18	.11	.03	.00	.020	.31
	40'			.77	54000	70000	27											.01	.16		
	W610 x217.0				372	476	26														
	12.192 M				372	48[illegible]	27														
3	W24 -146.0	3	351922	.76	54000	71000	26			.07	1.11	.015	.024	.26	.34	.14	.11	.03	.00	.019	.32
	40'			.77	54000	70000	25											.01	.16		
	W610 x217.0				372	490	26														
	12.192 M				372	483	26														
4	W24 -146.0	4	351923	.76	54000	71000	27			.08	1.10	.016	.021	.23	[illegible]	.12	.11	.03	.00	.019	.32
	40'			.76	54000	71000	27											.01	.17		
	W610 x217.0				372	490	27														
	12.192 M				372	4[illegible]	27														

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

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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 5 Day of 08/10

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 ES COPIA FIEL DEL ORIGINAL DE NUESTROS ARCHIVOS.
AMPARA LA REMISION No.
TEL. 58-36-10-00 ventas@ferrebarniedo.com.mx