NUCOR-YAMATO STEEL CO.
P O BOX 1228
BLYTHEVILLE AR 72316

DATE
8/23/06

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 TAP FORWARDING
1207 UNIROYAL DRIVE
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

INVOICE	CUSTOMER NO.
69266	5446
BILL OF LADING	**CUSTOMER P.O.**
801335	FERRE 7/5/06

2 **SPECIFICATIONS** GRADE:
ASTM A709/A709M-03a GR50S (345S)
ASTM A992/A992M-04a A572/A572M GR50-04 ASTM A709/A709M-03a GR50 (345)
ASTM A6/A6M-05a

32390

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 -131.0	2	280661	.77	58000	75000	27			.08	1.30	.014	.018	.24	.31	.10	.10	.03	.00	.019	.36
	40' 1P2413195 I			.76	57000	75000	27											.01	.19		
	W610 x195.0				400	517	27														
	12.192 M				393	517	27														
2	W24 -131.0	10	280663	.77	57000	74000	27			.08	1.31	.015	.021	.25	.32	.11	.11	.03	.00	.019	.36
	40'			.77	58000	75000	28											.01	.19		
	W610 x195.0				393	510	27														
	12.192 M				400	517	28														
3	W24 -131.0	18	280666	.78	57000	73000	28			.07	1.30	.015	.017	.26	.29	.10	.09	.03	.00	.020	.34
	40'			.78	56000	72000	29											.01	.16		
	W610 x195.0				393	503	28														
	12.192 M				386	496	29														
4	W24 -131.0	1	280668	.79	59000	75000	26			.08	1.30	.015	.022	.26	.32	.11	.10	.03	.00	.020	.36
	40'			.78	59000	76000	27											.01	.19		
	W610 x195.0				407	517	26														
	12.192 M				407	524	27														
5	W24 -131.0	2	280685	.77	57000	74000	27			.08	1.30	.018	.022	.21	.37	.11	.13	.03	.00	.018	.36
	40'			.76	56000	74000	27											.01	.19		
	W610 x195.0				393	510	27														
	12.192 M				3[illegible]	510	27														

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
Pcm=C+Si / 30+Mn / 20+Cu / 20+Ni / 60+Cr / 20+Mo / 15+V / 10+5B B-Approx .0005
CARBON EQUIVALENT [illegible] / 5 + (Ni+Cu) / 15
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

NUCOR-YAMATO STEEL CO.
P O BOX 1228
BLYTHEVILLE AR 72316

DATE
4/21/06

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SOLD TO	SHIP TO	INVOICE	CUSTOMER NO.
FERRE BARNIEDO, S.A. DE C.V. AV REVOLUCION NO 81 SAN CRISTOBAL ECATEPEC EDO DE MEXICO 55000-0000	FERRE BARNIEDO C/O TAF FORWARDING 1207 UNIROYAL DRIVE FINAL: SAN LUIS POTOSI, SLP MX LAREDO, TX	38633 BILL OF LADING 781700	5446 CUSTOMER P.O. FERRE 24 2ND

2 SPECIFICATIONS GRADE:
ASTM A709/A709M-03a GR50S (345S)
ASTM A992/A992M-04a A572/A572M GR50-03a ASTM A709/A709M-03a GR50 (345)
ASTM A6/A6M-04a

30825

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 -131.0	12	273092	.75	54000	72000	27			.07	1.21	.022	.025	.23	.28	.11	.13	.03	.00	.019	.33
	40' P2413195 I			.74	53000	72000	27											.01	.16		
	W610 x195.0				372	496	27														
	12.192 M				365	496	27														
2	W24 -131.0	15	273095	.77	55000	71000	28			.07	1.24	.024	.025	.25	.28	.10	.11	.03	.00	.019	.34
	40'			.75	54000	72000	27											.01	.16		
	W610 x195.0				379	490	28														
	12.192 M				372	496	27														
3	W24 -131.0	3	273097	.76	55000	72000	28			.06	1.21	.019	.023	.24	.30	.11	.09	.03	.00	.019	.31
	40'			.76	54000	71000	28											.01	.15		
	W610 x195.0				379	496	28														
	12.192 M				372	490	28														
4	W24 -131.0	3	273107	.72	50000	69000	26			.06	1.22	.024	.020	.23	.28	.10	.13	.03	.00	.016	.32
	40'			.74	52000	70000	28											.01	.15		
	W610 x195.0				345	476	26														
	12.192 M				359	483	28														

FERRE BARNIEDO, S.A. DE C.V.
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ELONGATION BASED ON 8.00 INCH GAUGE LENGTH
Pcm=C+Si / 30+Mn / 20+Cu / 20+Ni / 60+Cr / 20+Mo / 15+V / 10+5B B=Approx .0005
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

CARBON EQUIVALENT CE = C+ Mn/6 + (Cr+Mo+V) / 5 + (Ni+Cu) / 15

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
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SWORN TO AND SUBSCRIBED BEFORE ME THIS
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