NUCOR-YAMATO STEEL CO.

P O BOX 1228
BLYTHEVILLE AR 72316

DATE
4/21/06

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A

7460

All shapes produced by Nucor-Yamato Steel are melt and rolled [illegible] and [illegible] practice.

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	386[illegible]	5446
		BILL OF LADING	CUSTOMER P.O.
		781831	FERRE 24 2ND

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

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 -104.0	1	273164	.79	56000	71000	27			.06	1.21	.022	.024	.19	.29	.10	.13	.03	.00	.015	.32
	40'			.77	55000	71000	28											.01	.15		
	W610 x155.0				386	490	27														
	12.192 M				379	490	28														
2	W24 -104.0	2	273169	.78	56000	72000	26			.08	1.21	.022	.023	.25	.37	.10	.11	.03	.00	.016	.34
	40'			.78	56000	72000	26											.01	.18		
	W610 x155.0				386	496	26														
	12.192 M				386	496	26														
3	W24 -104.0	4	273171	.75	54000	72000	26			.07	1.23	.020	.022	.23	.27	.13	.10	.03	.00	.016	.34
	40'			.76	55000	72000	26											.01	.16		
	W610 x155.0				372	496	26														
	12.192 M				379	496	26														
4	W24 -104.0	15	273174	.79	55000	70000	28			.06	1.24	.018	.025	.22	.25	.11	.09	.03	.00	.015	.31
	40'			.77	55000	71000	27											.01	.14		
	W610 x155.0				379	483	28														
	12.192 M				379	490	27														
5	W24 -104.0	15	273178	.79	56000	71000	28			.07	1.23	.019	.025	.22	.32	.11	.11	.03	.00	.015	.34
	40'			.77	55000	71000	28											.01	.17		
	W610 x155.0				386	490	28														
	12.192 M				379	490	28														
6	W24 -104.0	1	273208	.76	55000	72000	26			.09	1.21	.014	.025	.18	.26	.12	.09	.03	.00	.014	.34
	40'			.78	56000	72000	26											.01	.17		
	W610 x155.0				379	496	26														
	12.192 M				386	496	26														

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

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

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

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

7459

CERTIFIED MILL TEST REPORT
100% MELTED AND MANUFACTURED IN
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed fine grain practice

SOLD TO
FERRE BARNIEDO, S.A. DE C.V.
AV REVOLUCION NO 81
SAN CRISTOBAL ECATEPEC
EDO DE MEXICO 55000-0000

SHIP TO
FERRE BARNIEDO C/O TAF FORWARDING
1207 UNIROYAL DRIVE
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

INVOICE	CUSTOMER NO.
38643	5446
BILL OF LADING	**CUSTOMER P.O.**
781833	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

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 -104.0	17	273158	.79	55000	70000	28			.06	1.21	.024	.025	.21	.27	.10	.15	.03	.00	.015	.32
	40'			.76	54000	71000	29											.01	.15		
	W610 x155.0				379	483	28														
	12.192 M				372	490	29														
2	W24 -104.0	4	273169	.78	56000	72000	26			.08	1.21	.022	.023	.25	.37	.10	.11	.03	.00	.016	.34
	40'			.78	56000	72000	26											.01	.18		
	W610 x155.0				386	496	26														
	12.192 M				386	496	26														
3	W24 -104.0	5	273171	.75	54000	72000	26			.07	1.23	.020	.022	.23	.27	.13	.10	.03	.00	.016	.34
	40'			.76	55000	72000	26											.01	.16		
	W610 x155.0				372	496	26														
	12.192 M				379	496	26														
4	W24 -104.0	2	273174	.79	55000	70000	28			.06	1.24	.018	.025	.22	.25	.11	.09	.03	.00	.015	.31
	40'			.77	55000	71000	27											.01	.14		
	W610 x155.0				379	483	28														
	12.192 M				379	490	27														
5	W24 -104.0	10	273176	.80	56000	70000	28			.06	1.25	.018	.026	.20	.28	.11	.11	.03	.00	.015	.33
	40'			.77	55000	71000	29											.01	.15		
	W610 x155.0				386	483	28														
	12.192 M				379	490	29														

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

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

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

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

7475

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 55000-0000

SHIP TO
FERRE BARNIEDO C/O TAF FORWARDING
1207 UNIROYAL DRIVE
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

INVOICE	CUSTOMER NO.
38641	5446
BILL OF LADING	**CUSTOMER P.O.**
781829	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

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 -104.0	14	273174	.79	55000	70000	28			.06	1.24	.018	.025	.22	.25	.11	.09	.03	.00	.015	.31
	40'			.77	55000	71000	27											.01	.14		
	W610 x155.0				379	483	28														
	12.192 M				379	490	27														
2	W24 -104.0	6	273176	.80	56000	70000	28			.06	1.25	.018	.026	.20	.28	.11	.11	.03	.00	.015	.33
	40'			.77	55000	71000	29											.01	.15		
	W610 x155.0				386	483	28														
	12.192 M				379	490	29														
3	W24 -104.0	12	273178	.79	56000	71000	28			.07	1.23	.019	.025	.22	.32	.11	.11	.03	.00	.015	.34
	40'			.77	55000	71000	28											.01	.17		
	W610 x155.0				386	490	28														
	12.192 M				379	490	28														
4	W24 -104.0	4	273180	.78	54000	69000	28			.07	1.23	.020	.024	.20	.32	.11	.11	.03	.00	.016	.34
	40'			.78	54000	69000	27											.01	.17		
	W610 x155.0				372	476	28														
	12.192 M				372	476	27														
5	W24 -104.0	1	273184	.81	58000	72000	27			.08	1.22	.023	.025	.19	.38	.10	.12	.03	.00	.014	.34
	40'			.79	57000	72000	25											.01	.18		
	W610 x155.0				400	496	27														
	12.192 M				393	496	25														
6	W24 -104.0	1	273194	.74	53000	72000	26			.06	1.20	.026	.025	.18	.31	.09	.12	.03	.00	.015	.32
	40'			.75	54000	72000	27											.01	.16		
	W610 x155.0				365	496	26														
	12.192 M				372	496	27														

(P24131551)

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

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GARY PENNELL
QUALITY ASSURANCE

STATE OF ARKANSAS
COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
_____ Day of _____
NOTARY PUBLIC

MATO STEEL CO.
P O BOX 1228
BLYTHEVILLE AR 72316

DATE
4/21/06

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A

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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	38640	5446
		BILL OF LADING	CUSTOMER P.O.
		781828	FERRE 24 2ND

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

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	CHARPY IMPACT ENERGY FT-LBS JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W24 -104.0	4	273160	.79	55000	70000	27			.07	1.20	.025	.024	.20	.26	.09	.16	.03	.00	.016	.33
	40'			.79	56000	71000	28											.01	.16		
	W610 x155.0				379	483	27														
	12.192 M				386	490	28														
2	W24 -104.0	14	273162	.77	53000	69000	28			.06	1.25	.020	.023	.23	.29	.12	.11	.03	.00	.016	.33
	40'			.79	56000	71000	28											.01	.15		
	W610 x155.0				365	476	28														
	12.192 M				386	490	28														
3	W24 -104.0	15	273169	.78	56000	72000	26			.08	1.21	.022	.023	.25	.37	.10	.11	.03	.00	.016	.34
	40'			.78	56000	72000	26											.01	.18		
	W610 x155.0				386	496	26														
	12.192 M				386	496	26														
4	W24 -104.0	3	273174	.79	55000	70000	28			.06	1.24	.018	.025	.22	.25	.11	.09	.03	.00	.015	.31
	40'			.77	55000	71000	27											.01	.14		
	W610 x155.0				379	483	28														
	12.192 M				379	490	27														
5	W24 -104.0	1	273178	.79	56000	71000	28			.07	1.23	.019	.025	.22	.32	.11	.11	.03	.00	.015	.34
	40'			.77	55000	71000	28											.01	.17		
	W610 x155.0				386	490	28														
	12.192 M				379	490	28														

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

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

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

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