

NUCOR-YAMATO STEEL CO.

P O BOX 1228
 BLYTHEVILLE AR 72316

DATE
 7/28/06

32065

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

INVOICE
 63001
 BILL OF LADING
 797031

CUSTOMER NO.
 5446
 CUSTOMER P.O.
 FERRE 5/9/06

2	SPECIFICATIONS GRADE: ASTM A709/A709M-03a GR50S (345S)	ASTM A992/A992M-04a A572/A572M GR50-04	ASTM A7097/A709M-03a GR50 (345)
		ASTM A6/A6M-05a	

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES											
				YIELD TO TENSILE MPa	YIELD STRENGTH FEN MPa	TENSILE STRENGTH FEN MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE		
								TEMP F	IMPACT ENERGY FT-LBS													Sn	Pcm
1	W21 - 44.0 40' P2107045 W530 x 66.0 12.192 M	2	278750	.76	54000	71000	24					.07	1.10	.015	032	.27	.29	.09	.14	.03	.01	.014	.32
				.73	52000	71000	25													.01	.16		
					372	490	24																
					359	490	25																

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
 $P_{cm} = C + Si / 30 + Mn / 20 + Cu / 20 + Ni / 60 + Cr / 20 + Mo / 15 + V / 10 + Sb$ Approx. 88%
 CARBON EQUIVALENT CE = $C + Mn/6 + (Cr+Mo+V) / 5 + (Ni+Cu) / 15$
 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
 7/29/06

32661

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

INVOICE

63006

CUSTOMER NO.

5446

BILL OF LADING

797154

CUSTOMER P.O.

FERRE 5/9/06

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

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES							CHEMICAL PROPERTIES													
				YIELD TO TENSILE MPa	YIELD STRENGTH TENSILE MPa	TENSILE STRENGTH TENSILE MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE			
								TEMP F	IMPACT ENERGY FT-LBS JOULES													Sn	Pcm	CI
1	W14 -159.0	3	278995	.76	53000	70000	31					.061	.31	.011	.021	.24	.31	.10	.09	.03	.00	.019	.33	
	40'IP1416237I			.76	53000	70000	30														.01	.16		
	W360 x237.0					365	483	31																
2	12.192 M	14	279026	.76	55000	72000	28					.071	.32	.015	.025	.28	.31	.13	.13	.03	.00	.019	.35	
	W14 -159.0			.76	55000	72000	28														.01	.18		
	40'					379	496	28																
3	W360 x237.0	1	279036		379	496	28					.081	.33	.013	.021	.23	.33	.11	.11	.03	.00	.018	.36	
	12.192 M			.75	54000	72000	28														.01	.19		
	W14 -159.0			.76	55000	72000	28																	
4	40'	8	278570		372	496	28					.071	.12	.013	.031	.30	.32	.11	.09	.03	.01	.024	.32	
	W360 x237.0			.77	56000	73000	24														.01	.16		
	12.192 M			.75	55000	73000	26																	
5	W530 x 66.0	14	278574		386	503	24					.071	.12	.015	.037	.30	.32	.12	.11	.04	.01	.024	.32	
	40'			.78	57000	73000	23														.01	.17		
	W530 x 66.0			.79	58000	73000	23																	
6	12.192 M	5	278582		393	503	23					.051	.11	.014	.035	.30	.34	.13	.06	.04	.01	.025	.29	
	W21 - 44.0			.78	56000	72000	24														.01	.14		
	40'			.79	56000	71000	26																	
	W530 x 66.0				386	496	24																	
	12.192 M				386	490	26																	

FERRE BARNIEDO, S.A. DE C.V.
 ESTE CERTIFICADO ES COPIA FIEL
 DEL ORIGINAL DE NUESTROS ARCHIVOS,

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH
 $Pcm = C + Mn / 30 + Cu / 20 + Ni / 60 + Cr / 15 + Mo / 15 + P / 20 + S / 20 + Nb + Ta / 10$
 Corrosion Index: $CI = 26.01(\%Cu) + 3.89(\%Ni) + 1.2(\%Cr) + 1.49(\%Si) + 17.18(\%P) - 7.29(\%Cu)(\%Ni) - 9.10(\%Ni)(\%P) - 33.39(\%Cu)^2$

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.
 STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI
 GARY PENNELLO
 50-36-10-00
 vert@ferrebarniedo.com.mx
 QUALITY ASSURANCE

NUCOR-YAMATO STEEL CO.

P O BOX 1228
 BLYTHEVILLE AR 72316

DATE
 7/29/06

32044

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

INVOICE
 63003
 BILL OF LADING
 797151

CUSTOMER NO.
 5446
 CUSTOMER P.O.
 FERRE 5/9/06

2 SPECIFICATIONS GRADE: ASTM A992/A992M-04a A572/A572M GR50-04 ASTM A709/A709M-U3a GR50 (345)
 ASTM A709/A709M-03a GR50S (345S) ASTM A6/A6M-05a

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES													
				YIELD TO TENSILE MPa	YIELD STRENGTH MPa	TENSILE STRENGTH MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE				
								TEMP F	IMPACT ENERGY FT-LB JOULES																
1	W14 -370.0 40' 1/2" 65512 W360 x550.6 12.192 M	3	278984	.75	53000	71000	26				.081	.34	.016	.015	.30	.32	.10	.10	.03	.05	.001	.37			
				.72	51000	71000	27																		
					365	490	26																		
2	W14 -370.0 40' W360 x550.6 12.192 M	1	278985	.75	54000	72000	28				.071	.36	.017	.020	.30	.38	.10	.12	.03	.04	.001	.37			
				.74	53000	72000	29																		
					372	496	28																		
3	W14 -370.0 40' W360 x550.6 12.192 M	1	278987	.74	52000	70000	29				.071	.32	.018	.025	.26	.32	.11	.12	.03	.04	.001	.36			
				.76	54000	71000	28																		
					359	483	29																		
4	W21 - 44.0 40' 1/2" 7065 J W530 x 66.0 12.192 M	8	278915	.79	58000	73000	25				.071	.10	.013	.035	.29	.33	.11	.14	.03	.01	.016	.32			
				.76	55000	72000	25																		
					400	503	25																		
5	W21 - 44.0 40' W530 x 66.0 12.192 M	32	278917	.77	55000	71000	26				.071	.12	.015	.036	.30	.31	.11	.12	.03	.01	.019	.32			
				.77	53000	69000	25																		
					379	490	26																		
6	W21 - 44.0 40' W530 x 66.0 12.192 M	11	278920	.75	57000	76000	25				.081	.18	.017	.036	.30	.31	.12	.15	.03	.01	.017	.35			
				.76	57000	75000	24																		
					393	524	25																		

FERRE BARNIEDO, S.A. DE C.V.
 ESTE CERTIFICADO ES COPIA FIEL
 DEL ORIGINAL DE NUESTROS ARCHIVOS

ELONGATION BASED ON 2.00 INCH GAGE LENGTH
 Pcm = C + Ni / 30 + Mn / 20 + Cu / 20 + Ni / 60 + Cr / 20 + Mo / 15 + V / 10 + 5B approx .008
 Carbon Equivalent CE = C + Mn / 6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15
 Corrosion Index: CI = 26.01(%Cu) + 3.88(%Ni) + 1.2(%Cr) + 1.49(%S) + 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 true and correct. All the tests and operations were performed by the certified laboratory in compliance with the requirements of the national specifications, and when required by the purchaser, test by approved methods.

GARY PENNELL
 QUALITY ASSURANCE

STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI

SWORN TO AND SUBSCRIBED BEFORE ME THIS

TEL. 58-36-10-00 vert@ferrebarniedo.com.mx

NUCOR-YAMATO STEEL CO.

P O BOX 1228
 BLYTHEVILLE AR 72316

DATE
 7/28/06

32043

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

INVOICE
 63002
 BILL OF LADING
 797032

CUSTOMER NO.
 5446
 CUSTOMER P.O.
 FERRE 5/9/06

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

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES														
				YIELD TO TENSILE MPa	YIELD STRENGTH MPa	TENSILE STRENGTH MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE					
								TEMP °C	IMPACT ENERGY FT-LB JOULES																	
1	W14 -159.0	5	278993	.75	54000	72000	27					.07	.31	.019	.025	.23	.32	.11	.15	.03	.04	.001	.36			
	40' P1416237J			.75	54000	72000	28																			
	W360 x237.0				372	496	27																			
	12.192 M				372	496	28																			
2	W14 -159.0	7	278994	.76	53000	70000	28					.07	.32	.015	.020	.25	.32	.12	.12	.03	.01	.019	.35			
	40'			.76	54000	71000	29																			
	W360 x237.0				365	483	28																			
	12.192 M				372	490	29																			
3	W14 -159.0	3	278996	.76	53000	70000	28					.06	.32	.012	.021	.25	.30	.09	.10	.03	.00	.020	.34			
	40'			.76	53000	70000	29																			
	W360 x237.0				365	483	28																			
	12.192 M				365	483	29																			
4	W14 -159.0	3	278997	.76	54000	71000	29					.07	.32	.012	.020	.25	.30	.09	.10	.03	.00	.018	.35			
	40'			.76	54000	71000	28																			
	W360 x237.0				372	490	29																			
	12.192 M				372	490	28																			
5	W21 - 44.0	1	278574	.78	57000	73000	23					.07	.12	.015	.037	.30	.32	.12	.11	.04	.01	.024	.32			
	40' P210706J I			.79	58000	73000	23																			
	W530 x 66.0				393	503	23																			
	12.192 M				400	503	23																			
6	W21 - 44.0	2	278580	.79	56000	71000	23					.06	.11	.014	.036	.29	.32	.12	.07	.04	.01	.025	.30			
	40'			.79	56000	71000	23																			
	W530 x 66.0				386	490	23																			
	12.192 M				386	490	23																			
7	W21 - 44.0	24	278582	.78	56000	72000	24					.05	.11	.014	.035	.30	.34	.13	.06	.04	.01	.025	.29			
	40'			.79	56000	71000	26																			
	W530 x 66.0				386	496	24																			
	12.192 M				386	490	26																			

FERRE BARNIEDO, S.A. DE C.V.
ESTE CERTIFICADO ES COPIA FIEL

ELONGATION BASED ON 8.00 INCH GAGE LENGTH CARBON EQUIVALENT CE = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
 Pcm = C + Ni/30 + Mn/20 + Cu/20 + Ni/60 + B/10 + (Cr+Mo+V)/10 + Sb/10 + Sn/10
 Corrosion Index CI = 2.01(%Cu) + 1.83(%Ni) + 1.49(%S) + 17.28(%P) + 1.27(%C) + 0.015(%Mn) + 10(%Ni) + 0.035(%V) + 10(%Cr)

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

LA REMISION

STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI
 GIVEN TO AND SUBSCRIBED BEFORE ME THIS
 NO. _____ Day of _____

TEL 58-36-10-00 ventas@ferrebarniedo.com.mx

NUCOR-YAMATO STEEL CO.

P O BOX 1228
BLYTHEVILLE AR 72316

DATE
7/26/06

032031

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

SHIP TO

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

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

INVOICE
62421
BILL OF LADING
796548

CUSTOMER NO.
5446
CUSTOMER P.O.
FERRE 5/9/06

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

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES							CHEMICAL PROPERTIES													
				YIELD TO TENSILE RATIO	YIELD STRENGTH FBI MPa	TENSILE STRENGTH FBI MPa	ELONG % X	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE			
								TEMP F	IMPACT ENERGY FT-LBS Joules															
1	W14 -283.0	3	278191	.76	55000	72000	27				.071	.32	.018	.019	.21	.36	.12	.12	.04	.04	.002	.36		
	40' W14 1642.7			.76	54000	71000	27																	
	W360 x421.0																							
2	W14 -283.0	1	278402	.74	53000	72000	28				.081	.36	.018	.020	.27	.32	.12	.11	.04	.05	.003	.38		
	40'			.74	53000	72000	27																	
	W360 x421.0																							
3	W14 -283.0	2	278571	.73	52000	71000	27				.071	.30	.017	.022	.23	.34	.13	.13	.04	.05	.002	.36		
	40'			.73	51000	70000	27																	
	W360 x421.0																							
4	W14 -283.0	1	278573	.73	51000	70000	28				.071	.30	.016	.020	.26	.32	.11	.11	.03	.04	.001	.36		
	40'			.74	51000	69000	28																	
	W360 x421.0																							
5	W14 -283.0	1	278575	.72	50000	69000	27				.061	.30	.016	.017	.26	.33	.09	.09	.03	.04	.002	.34		
	40'			.74	50000	68000	28																	
	W360 x421.0																							
6	W14 -283.0	1	278587	.75	53000	71000	28				.071	.31	.014	.025	.28	.32	.12	.14	.04	.04	.001	.36		
	40'			.73	51000	70000	28																	
	W360 x421.0																							
7	W21 - 44.0	11	278920	.75	57000	76000	25				.081	.18	.017	.036	.30	.31	.12	.15	.03	.01	.017	.35		
	40' W21 6766.7			.76	57000	75000	24																	
	W530 x 66.0																							
8	W21 - 44.0	25	278921	.76	55000	72000	25				.061	.10	.011	.036	.32	.36	.13	.12	.03	.01	.016	.30		
	40'			.77	57000	74000	24																	
	W530 x 66.0																							

FERRE BARNIEDO, S.A. DE C.V.

ELONGATION BASED ON 8.00 INCH GAGE LENGTH
 $P_{cm} = C + Mn / 30 + Mo / 20 + Cu / 20 + Ni / 60 + Cr / 20 + Nb / 10 + V / 10 + B / 10$
 Corrosion Index: $CI = 26.01(\%C) + 5.88(\%Ni) + 12(\%Cr) + 14.5(\%Mn) + 17.28(\%P) + 2.29(\%Cu) + 9.1(\%Ni) + 9.39(\%Cu)$

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 those designated by the purchaser, meet the applicable specifications.

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

STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME THIS
 Day of _____ 2006