

**CERTIFIED MILL TEST REPORT**



LOG NO. F0000000022711

Page 1 of 3

BONNEY FORGE CORPORATION

P.O. BOX 330 • 14486 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 346-7546 • FAX (814) 542-4906

www.bonneyforge.com

CUSTOMER: WFI INTERNATIONAL, INC.

DATE 12/14/2011

CUSTOMER

BONNEY ORDER NO. B000110720

ORDER NO.: BD00065558

PO# 11796

SHIP TO: AMERICAN DISPATCH  
302 QUIVIRA DR  
MODERN INDUSTRIAL PARK  
LAREDO TX 78045

REF: C1116064-PLESA ANAHAUC

ITEM	QUANTITY	LOT NO	GRADE OR SPECIFICATION NO	CHEMICAL ANALYSIS				PHYSICAL PROPERTIES		REMARKS
				Al	C	Co	Cr	EL(%)	RA(%)	
1	30	58152	11/2 3000 HOT-DIP TEE T	SA/A105						
				Al 0.026	C 0.200	Co 0.000	Cr 0.030	Cu 0.090	Mn 1.010	Mo 0.010
				N 0.005	Nb 0.015	Ni 0.030	P 0.005	S 0.019	Si 0.200	V 0.004
				CE(Long Formula) =		0.39				
				T/S(PSI) 77,500	Y/S(PSI) 48,750		EL(%) 31.20	RA(%) 63.00		
				Brinell	150 BHN		150 BHN			
2	30	58321	1 3000 HOT-DIP TEE T	SA/A105						
				Al 0.022	C 0.200	Co 0.003	Cr 0.030	Cu 0.180	Mn 1.010	Mo 0.010
				Nb 0.012	Ni 0.040	P 0.007	S 0.019	Si 0.190	V 0.003	N 0.004
				CE(Long Formula) =		0.39				
				T/S(PSI) 76,875	Y/S(PSI) 52,500		EL(%) 28.45	RA(%) 62.55		
				Brinell	139 BHN		137 BHN			
3	20	58288	3/4 3000 HOT-DIP TEE T	SA/A105						
				Al 0.022	C 0.190	Co 0.005	Cr 0.040	Cu 0.210	Mn 1.050	Mo 0.010
				Nb 0.015	Ni 0.060	P 0.007	S 0.019	Si 0.200	V 0.004	N 0.005
				CE(Long Formula) =		0.39				
				T/S(PSI) 76,250	Y/S(PSI) 51,250		EL(%) 30.20	RA(%) 65.85		
				Brinell	147 BHN		144 BHN			
4	20	58228	11/2X11/2X3/4 3M HOT-DIP TEE T	SA/A105						
				Al 0.022	C 0.200	Co 0.004	Cr 0.040	Cu 0.100	Mn 1.100	Mo 0.010
				N 0.004	Nb 0.018	Ni 0.030	P 0.007	S 0.022	Si 0.170	V 0.004
				CE(Long Formula) =		0.40				
				T/S(PSI) 73,750	Y/S(PSI) 48,750		EL(%) 31.55	RA(%) 66.10		
				Brinell	141 BHN		141 BHN			

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

by Meloney Specht

Meloney Specht  
QUALITY PROCESS MANAGER

CMTR: REV2

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LOG NO. F0000000022711 Page 2 of 3  
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**CUSTOMER:** WFI INTERNATIONAL, INC.

**DATE** 12/14/2011

**CUSTOMER**

**BONNEY ORDER NO.** B000110720

**ORDER NO.:** BD00063558

**PO#** 11796

**SHIP TO:** AMERICAN DISPATCH  
 302 QUIVIRA DR  
 MODERN INDUSTRIAL PARK  
 LAREDO TX 78045

**REF:** C1116064-PLESA ANAHAUC

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS				PHYSICAL PROPERTIES		REMARKS																
				C	Mn	P	S	Yield	RA																	
6	20	58451	1 6000 A105 TEE S	SA/A105	Al 0.019	C 0.200	Cb 0.000	Co 0.001	Cr 0.040	Cu 0.020	Mn 1.110	Mo 0.000	Ni 0.010	P 0.007	S 0.019	Si 0.170	V 0.004	T/S(PSI) 75,000	Y/S(PSI) 50,625	EL(%) 28.05	RA(%) 62.30	Brinell 135 BHN	132 BHN			
7	20	59108	2 6000 A105 TEE S	SA/A105	Al 0.020	C 0.200	Co 0.002	Cr 0.040	Cu 0.060	Mn 1.070	Mo 0.000	Nb 0.015	Ni 0.020	P 0.006	S 0.023	Si 0.220	V 0.004	T/S(PSI) 78,750	Y/S(PSI) 48,750	EL(%) 30.00	RA(%) 62.05	Brinell 144 BHN	141 BHN			
8	30	4825	2 3000 HOT-DIP UNAR T	SA/A105	Al 0.024	C 0.210	Cb 0.000	Co 0.004	Cr 0.030	Cu 0.060	Mn 1.010	Mo 0.010	N 0.004	Nb 0.012	Ni 0.040	P 0.008	S 0.019	Si 0.180	V 0.004	CE(Long Formula) = 0.39	T/S(PSI) 73,700	Y/S(PSI) 44,600	EL(%) 31.50	RA(%) 55.40	Brinell 148 BHN	150 BHN
		4935	2 3000 HOT-DIP UNAR T	SA/A105	Al 0.027	C 0.160	Cb 0.002	Co 0.006	Cr 0.130	Cu 0.180	Mn 1.080	Mo 0.030	N 0.011	Ni 0.070	P 0.009	S 0.021	Si 0.270	V 0.036	CE(Long Formula) = 0.40	T/S(PSI) 84,700	Y/S(PSI) 56,000	EL(%) 24.60	RA(%) 45.40	Brinell 174 BHN	172 BHN	

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 QUALITY PROCESS MANAGER

CMTR: REV2

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LOG NO. F00000000022711 Page 3 of 3  
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**ORDER NO.:** BD00065558

**PO#** 11796

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 MODERN INDUSTRIAL PARK  
 LAREDO TX 78045

**REF:** C1116064-PLESA ANAHAUC

ITEM	QUANTITY	LOT NO	GRADE OR SPECIFICATION NO	CHEMICAL ANALYSIS	PHYSICAL PROPERTIES	REMARKS	
		5020	2 3000 HOT-DIP UNAR T		SA/A105		
		NUT-LO		Al 0.027 C 0.195 Cr 0.140 Cu 0.160 Mn 1.000 Mo 0.040 N 0.009 Nb 0.000 Ni 0.110 P 0.009 S 0.025 Si 0.240 V 0.002 CE(Long Formula) = 0.42 T/S(PSI) 73,244 Y/S(PSI) 47,862 EL(%) 25.00 RA(%) 43.00 Brinell 175 BHN 178 BHN			

1. THE MATERIAL SUPPLIED IS FREE FROM MERCURY AND RADIUM CONTAMINATION.
2. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
3. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
4. CERTIFYING ASTM A105-10 / ASME SA105-10 EDITION.
5. THE FITTINGS SUPPLIED WERE NOT SUBJECTED TO ANY FORM OF WELD REPAIR.
6. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
7. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.
8. THE MATERIAL SUPPLIED IS IN THE AS-ROLLED CONDITION.
9. THE MATERIAL SUPPLIED IS IN THE AS-FORGED CONDITION.

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 QUALITY PROCESS MANAGER

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