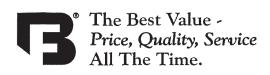
## **CERTIFIED MILL TEST REPORT**



**LOG NO.** F00000000071210 Page 1 of 2

**BONNEY FORGE CORPORATION** 

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330 (814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906

www.bonneyforge.com

**CUSTOMER:** WFI INTERNATIONAL, INC.

**DATE** 03/31/2015

**CUSTOMER** 

BONNEY ORDER NO. B000184755

**ORDER NO.:** BD00071443

PO# 338 C1513782

SHIP TO: AMERICA DISPATCH

302 QUIVIRA DRIVE LAREDO TX 78045

United States

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.
	QUANTITI	LOT NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	50	59640	2 6000 A105 90EL S SA/A105
			Al 0.030 C 0.200 Co 0.004 Cr 0.060 Cu 0.140 Mn 0.980 Mo 0.011 N 0.003 Nb 0.015 Ni 0.040 P 0.005 S 0.019 Si 0.210 V 0.003
			CE(Long Formula) = 0.39
			T/S(PSI) 75,961 Y/S(PSI) 49,935 EL(%) 30.95 RA(%) 59.94 Brinell 135 BHN 135 BHN
			Brilleti 133 Brill 133 Brill
2	20	59646	2 3000 A105 45EL T SA/A105
			Al 0.025 C 0.210 Co 0.003 Cr 0.030 Cu 0.040 Mn 1.060 Mo 0.013 N 0.002
			Nb 0.017 Ni 0.050 P 0.004 S 0.021 Si 0.230 V 0.003 CE(Long Formula) = 0.40
			T/S(PSI) 75,770 Y/S(PSI) 51,043 EL(%) 34.80 RA(%) 57.65
			Brinell 139 BHN 139 BHN
	<b></b>	#0###	4/9.0000 1405.0077 75
3	50	59741	1/2 3000 A105 90EL T SA/A105
			Al 0.029 C 0.210 Cb 0.000 Co 0.003 Cr 0.040 Cu 0.070 Mn 1.060 Mo 0.005 Nb 0.012 Ni 0.030 P 0.004 S 0.019 Si 0.250 V 0.003
			CE(Long Formula) = 0.40 T/S(PSI) 79,021 Y/S(PSI) 51,871 EL(%) 33.20 RA(%) 57.65
			Brinell 147 BHN 139 BHN
3	50	59698	1/2 3000 A105 90EL T SA/A105
			Al 0.019 C 0.210 Co 0.003 Cr 0.030 Cu 0.050 Mn 1.060 Mo 0.003 N 0.003 Nb 0.015 Ni 0.020 P 0.005 S 0.018 Si 0.230 V 0.003
			CE(Long Formula) = 0.40
			T/S(PSI) 75,261 Y/S(PSI) 48,253 EL(%) 33.90 RA(%) 63.23
			Brinell 139 BHN 139 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.

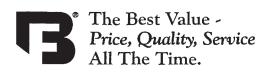
CMTR: REV2

by

Kylee Ruiz

**QUALITY PROCESS MANAGER** 

## CERTIFIED MILL TEST REPORT



**LOG NO.** F00000000071210

**BONNEY FORGE CORPORATION** 

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Page 2 of 2

**CUSTOMER** 

**BONNEY ORDER NO.** B000184755

ORDER NO.: BD00071443

PO# 338 C1513782

SHIP TO: AMERICA DISPATCH

302 QUIVIRA DRIVE LAREDO TX 78045

United States

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
4	200	59751	11/2 3000 A105 90EL S SA/A105  A1 0.023 C 0.220 Cb 0.000 Co 0.003 Cr 0.040 Cu 0.020 Mn 1.040 Mo 0.003  Nb 0.014 Ni 0.020 P 0.005 S 0.021 Si 0.220 V 0.003  CE(Long Formula) = 0.41  T/S(PSI) 76,930 Y/S(PSI) 49,099 EL(%) 32.40 RA(%) 63.38  Brinell 147 BHN 144 BHN
5	100	59701	1/2 3000 A105 90EL S SA/A105  Al 0.028 C 0.210 Co 0.003 Cr 0.070 Cu 0.070 Mn 1.040 Mo 0.005 N 0.003  Nb 0.012 Ni 0.020 P 0.006 S 0.020 Si 0.180 V 0.003  CE(Long Formula) = 0.40  T/S(PSI) 74,321 Y/S(PSI) 50,677 EL(%) 33.90 RA(%) 62.75  Brinell 135 BHN 135 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 A105-14 / ASME SA105-13 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-FORGED CONDITION.

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.

CMTR: REV2

Kylee Ruiz

QUALITY PROCESS MANAGER