

# CERTIFIED MILL TEST REPORT



**The Best Value -  
Price, Quality, Service  
All The Time.**

**LOG NO.** F00000000057916

**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:** MRC CANADA ULC

**DATE** 05/19/2014

**CUSTOMER**

**BONNEY ORDER NO.** B000166557

**ORDER NO.:** S759259189

**SHIP TO:** MRC CANADA ULC - BRCH 759

502-25 AVENUE

NISKU AB T9E 0K6

Canada

# 59366  
P.O. # 133291

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
156 18C13234	50	59366	11/2-11/4X1/2 3M A105N THRD T SA/A105N Al 0.026 C 0.200 Co 0.005 Cr 0.050 Cu 0.070 Mn 1.030 Mo 0.007 N 0.005 Nb 0.013 Ni 0.030 P 0.005 S 0.018 Si 0.290 V 0.003 CE(Long Formula) = 0.39 T/S(Psi) 75,500 Y/S(Psi) 50,500 EL(%) 34.00 RA(%) 68.00 Brinell 143 BHN 143 BHN
157 18C13240	75	59366	36-10 X 1/2 3M A105N THRD T SA/A105N Al 0.026 C 0.200 Co 0.005 Cr 0.050 Cu 0.070 Mn 1.030 Mo 0.007 N 0.005 Nb 0.013 Ni 0.030 P 0.005 S 0.018 Si 0.290 V 0.003 CE(Long Formula) = 0.39 T/S(Psi) 75,500 Y/S(Psi) 50,500 EL(%) 34.00 RA(%) 68.00 Brinell 143 BHN 143 BHN
158 18C13243	325	59366	8 -3 X 1/2 3000 A105N THRD T SA/A105N Al 0.026 C 0.200 Co 0.005 Cr 0.050 Cu 0.070 Mn 1.030 Mo 0.007 N 0.005 Nb 0.013 Ni 0.030 P 0.005 S 0.018 Si 0.290 V 0.003 CE(Long Formula) = 0.39 T/S(Psi) 75,500 Y/S(Psi) 50,500 EL(%) 34.00 RA(%) 68.00 Brinell 143 BHN 143 BHN
159 18C13261	100	59000	12 -6 X 3/4 3000 A105N THRD T SA/A105N Al 0.030 C 0.200 Co 0.003 Cr 0.030 Cu 0.100 Mn 1.020 Mo 0.007 N 0.004 Nb 0.016 Ni 0.030 P 0.007 S 0.015 Si 0.220 V 0.003 CE(Long Formula) = 0.39 T/S(Psi) 71,500 Y/S(Psi) 46,900 EL(%) 31.00 RA(%) 66.00 Brinell 137 BHN 137 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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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. CERTIFYING TO ASTM A350 LF2 07 REVISION.
3. THE MATERIAL SUPPLIED IDENTIFIED AS A105N WAS NORMALIZED IN ACCORDANCE WITH ASTM A105 HEAT TREATING REQUIREMENTS.
4. THE MATERIAL SUPPLIED AS A105N MEETS THE REQUIREMENTS OF BOTH NACE MR0103-2007 AND NACE MR0175/ISO 15156-2.
5. CERTIFYING ASTM A105-13 / ASME SA105-10 EDITION.
6. THE MATERIAL OF THE FITTINGS SUPPLIED IS ASTM A350-LF2 BUT MEETS THE REQUIREMENTS OF ASME SA350-LF2.
7. THE CHARPY V-NOTCH IMPACT TEST WAS PERFORMED AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH A350-LF2.
8. THE MATERIAL SUPPLIED AS A350 LF2 CL1 MEETS THE REQUIREMENTS OF BOTH NACE MRO103-2007 AND NACE MRO175/ISO 15156-2.
9. THE MATERIAL SUPPLIED WAS NORMALIZED IN ACCORDANCE WITH ASTM A350 HEAT TREATING REQUIREMENTS.
10. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
11. THE UNIT OF MEASURE FOR TENSILE AND YIELD (0.2%) STRENGTH ARE REPORTED IN PSI.
12. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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by

*Meloney Specht*

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QUALITY PROCESS MANAGER

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