CERTIFIED MILL TEST REPORT

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

LOG NO. F00000000004408

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: PLESA ANAHUAC Y CIAS., S.A. DE C.V.

DATE 07/21/2010

CUSTOMER ORDER NO.: 8512

BONNEY ORDER NO. B000078691

SHIP TO: WILL ADVISE

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	20	58047	2 3000 A105 90EL T SA/A105 Al 0.022 C 0.200 Cb 0.000 Co 0.006 Cr 0.050 Cu 0.210 Mn 1.060 Mo 0.010 N 0.006 Nb 0.013 Ni 0.050 P 0.006 S 0.018 Si 0.220 V 0.004 CE(Long Formula) = 0.41 T/S 78,750 Y/S 48,750 EL 30.65 RA 64.45 Brinell 150 BHN 147 BHN
2	100	58007	3/4 3000 A105 90EL T SA/A105 Al 0.020 C 0.200 Cb 0.000 Co 0.002 Cr 0.040 Cu 0.060 Mn 1.070 Mo 0.000 Nb 0.016 Ni 0.020 P 0.008 S 0.023 Si 0.230 Sn 0.010 V 0.004 CE(Long Formula) = 0.39 T/S 77,500 Y/S 51,250 EL 30.40 RA 62.05 Brinell 147 BHN 150 BHN
3	100	57993	11/4 3000 A105 90EL T SA/A105 C 0.190 Cb 0.014 Co 0.004 Cr 0.060 Cu 0.180 Mn 1.030 Mo 0.010 Nb 0.014 Ni 0.040 P 0.011 S 0.023 Si 0.220 Sn 0.010 V 0.004 CE(Long Formula) = 0.39 T/S 81,250 Y/S 49,000 EL 28.00 RA 57.80 Brinell 144 BHN 141 BHN
		58028	11/4 3000 A105 90EL T SA/A105 Al 0.026 C 0.200 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.110 Mn 1.010 Mo 0.010 N 0.005 Nb 0.017 Ni 0.030 P 0.007 S 0.021 Si 0.220 Sn 0.010 V 0.004 CE(Long Formula) = 0.39 T/S 77,500 Y/S 48,750 EL 30.30 RA 61.05 Brinell 141 BHN 144 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 Trudy Smith

TRUDY SMITH
QUALITY PROCESS MANAGER

CMTR: REV2

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
		4600	3/4 3000 A105 UNAR T SA/A105
		NUT-GW	Al 0.021 C 0.210 Cb 0.000 Co 0.000 Cr 0.170 Cu 0.110 Mn 0.970 Mo 0.020 N 0.008 Nb 0.001 Ni 0.070 P 0.024 S 0.024 Si 0.250 V 0.003
			CE(Long Formula) = 0.42
			T/S 78,465 Y/S 55,984 EL 28.00 RA 58.00
			Brinell 160 BHN
9	30	4619	1 3000 A105 UNAR T SA/A105
		MALE	Al 0.025 C 0.200 Cb 0.000 Co 0.002 Cr 0.040 Cu 0.100 Mn 1.000 Mo 0.000 Nb 0.015 Ni 0.020 P 0.007 S 0.023 Si 0.210 Sn 0.010 V 0.003
			CE(Long Formula) = 0.38
			T/S 75,600 Y/S 41,200 EL 30.00 RA 37.00
			Brinell 156 BHN 152 BHN
		4602	1 3000 A105 UNAR T SA/A105
		NUT-MK	Al 0.023 C 0.195 Cb 0.000 Co 0.000 Cr 0.120 Cu 0.120 Mn 1.030 Mo 0.030 N 0.001 Ni 0.090 P 0.016 S 0.023 Si 0.240 V 0.002
			CE(Long Formula) = 0.41
			T/S 74,839 Y/S 48,587 EL 29.30 RA 63.00
			Brinell 155 BHN
		4539	1 3000 A105 UNAR T SA/A105
		FEMALE	Al 0.023 C 0.210 Co 0.002 Cr 0.030 Cu 0.070 Mn 1.020 Mo 0.010 Nb 0.014 Ni 0.020 P 0.011 S 0.024 Si 0.220 V 0.004
			CE(Long Formula) = 0.39
			T/S 75,800 Y/S 46,300 EL 32.00 RA 61.50
			Brinell 143 BHN 145 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
10	50	4610	2 3000 A105 UNAR T SA/A105
		MALE	Al 0.024 C 0.200 Cb 0.000 Co 0.000 Cr 0.040 Cu 0.120 Mn 0.990 Mo 0.010 Nb 0.015 Ni 0.030 P 0.007 S 0.024 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S 73,700 Y/S 45,700 EL 35.00 RA 55.10 Brinell 149 BHN 152 BHN
		4557	2 3000 A105 UNAR T SA/A105
		FEMALE	Al 0.026 C 0.200 Co 0.050 Cr 0.050 Cu 0.040 Mn 1.080 Mo 0.000 Nb 0.015 Ni 0.020 P 0.008 S 0.016 Si 0.200 V 0.000 CE(Long Formula) = 0.39 T/S 79,500 Y/S 48,800 EL 33.00 RA 50.60 Brinell 156 BHN 159 BHN
		4508	2 3000 A105 UNAR T SA/A105
		NUT-LF	Al 0.023 C 0.195 Cr 0.120 Cu 0.120 Mn 1.030 Mo 0.030 Nb 0.000 Ni 0.090 P 0.016 S 0.023 Si 0.240 V 0.002 CE(Long Formula) = 0.41 T/S 72,519 Y/S 47,137 EL 25.26 RA 65.00 Brinell 149 BHN 149 BHN
11	50	58040	1/2 3000 A105 TEE T SA/A105
			Al 0.001 C 0.200 Cb 0.000 Co 0.000 Cr 0.115 Cu 0.250 Mn 0.960 Mo 0.024 N 0.011 Nb 0.006 Ni 0.102 P 0.011 S 0.025 Si 0.200 V 0.024 CE(Long Formula) = 0.42 T/S 83,125 Y/S 54,625 EL 26.80 RA 62.05 Brinell 159 BHN 159 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
12	50	58042	11/2 3000 A105 TEE T SA/A105 Al 0.025 C 0.200 Cb 0.000 Co 0.005 Cr 0.040 Cu 0.170 Mn 1.040 Mo 0.010 Nb 0.012 Ni 0.050 P 0.007 S 0.018 Si 0.200 V 0.004 CE(Long Formula) = 0.40 T/S 78,750 Y/S 49,375 EL 30.55 RA 62.30 Brinell 147 BHN 150 BHN
13	50	58033	1 3000 A105 TEE T SA/A105 Al 0.025 C 0.200 Cb 0.000 Co 0.002 Cr 0.030 Cu 0.070 Mn 1.040 Mo 0.010 N 0.003 Nb 0.013 Ni 0.020 P 0.007 S 0.025 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S 76,250 Y/S 48,125 EL 31.50 RA 58.30 Brinell 139 BHN 141 BHN
14	50	58047	2 3000 A105 TEE T SA/A105 Al 0.022 C 0.200 Cb 0.000 Co 0.006 Cr 0.050 Cu 0.210 Mn 1.060 Mo 0.010 N 0.006 Nb 0.013 Ni 0.050 P 0.006 S 0.018 Si 0.220 V 0.004 CE(Long Formula) = 0.41 T/S 78,750 Y/S 48,750 EL 30.65 RA 64.45 Brinell 150 BHN 147 BHN
15	20	57998	2 X2 X 11/2 3000 A105 TEE T SA/A105 C 0.200 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.050 Mn 1.030 Mo 0.000 Nb 0.013 Ni 0.010 P 0.008 S 0.020 Si 0.240 Sn 0.010 V 0.004 CE(Long Formula) = 0.38 T/S 70,625 Y/S 47,850 EL 32.80 RA 61.05 Brinell 130 BHN 130 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
		58056	2 X2 X 11/2 3000 A105 TEE T SA/A105
			C 0.200 Cr 0.030 Cu 0.070 Mn 1.060 Mo 0.010 Nb 0.018 Ni 0.020 P 0.011
			S 0.021 Si 0.230 V 0.000
			CE(Long Formula) = 0.39
			T/S 82,500 Y/S 52,500 EL 28.75 RA 58.55
			Brinell 147 BHN 150 BHN

1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
3. CERTIFYING ASTM A105-09 / ASME SA105-07 EDITION.
4. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
5. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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