



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

+R# 802E

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 419006 4	Mail To: EARLE M. JORGENSEN CANADA INC. 305 PENDANT DRIVE MISSISSAUGA, ON L5T2W9	Ship To: EARLE M. JORGENSEN CANADA INC. 305 PENDANT DRIVE MISSISSAUGA, ON L5T2W9	Date: 6/19/2018 Page: 1 Steel: 316/316L Finish: RT Corrosion: ASTM A262/15 Prac A/E OK Red Ratio: 4.7 :1
Customer: 007090 001	Your Order: P880966842		NAS Order: DS 0014870 02

PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S31600/S31603 EN 10204 3.1, ASTM A484/16
ASTM A276/17, ASTM A479/18, ASTM A182/16a CHEM ONLY,
ASME SA479/18, ASME SA182/13 CHEM ONLY, ASTM F899/12b
AMS 5648M/AMS 5653H, AMS QQS-763D, QQS 763F
NACE MR0175-15/MR0103-15 (MID RADIUS ONLY),
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8M
ASTM A193/16-ASME SA193/13 CL 1 GR B8M(EXC PAR 6.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

R 509191
509358
SHIP# 19142

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
IA4415 0		4.0000		1,052	144.00	3	1	509358

ANAB, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
802E	US	.021	.26	16.59	.44	1.37	2.018	.037	10.55	.035
		S %	SI %							
		.0250	.26							

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
IA4415 0	R L	174.0	43.00	88.00	67.00	48.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK 6/19/2018