

ISO 9001:2008, ISO 14001:2004 AND OHSAS 18001:2007 REGISTERED

SIVACO Ontario

a Division of SIVACO Wire Group L.P.

330 Thomas Street PO Box 220 Ingersoll, Ontario CANADA N5C 3K5

(519) 485-4150 Fax (519) 485-3039

Physical Test Report

WORK ORDER **072927**

HEAT NUMBER **A07869**

SALES ORDER / RLS 045600 / 3 CERT ID / REV 00033268 / 01

SOLD TO

G & R Forging 7072 Smith Industrial Drive McGregor, ON N0R 1J0 Canada

CUSTOMER P.C	CUSTOMER PART 13.50-1018			QUANTITY 12,476 lbs			COILS LADING NO 6 00051659			SHIPMENT DAT 03/20/2012		
SPECIFICATION PIQ1018135-16 13.50mm (0.5310") 1018 IQ, Clean/Coat, Clean/Lime, G&R Cold Forging, 7213.91.6000 Hot Rolled Rods Dia.<14.0mm (0.551"),Further Processed,Carbon < 0.60%												
CUSTOMER REC	QUIREMEN	ITS										
				Chemical	(value of 9	9 = n/a)						
.1600	Mn .6300	.008	p s 0 .0120	si .1700	Cu .1600	Ni .0800	.0	Cr 800	Mo .0220	Sn .0060	Al .0030	
.0006	v .0020	.008	N 4									
				Mechan	ical - Tag I	Detail						
648633-10A 648633-10B 648633-11A 648633-11B 648633-12A 648633-12B		DIAs .530 .530 .532 .532 .533	UTSs 72529 72529 72874 72874 72165									
				End of	f Certification							

I attest that the results are a true and correct copy of the records prepared and maintained by SIVACO Ontario in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier. This test report cannot be reproduced or distributed, except in full, without the written permission of SIVACO Ontario.

Authorized by: Gary Allard, QA Manager