

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

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Physical Test Report

WORK ORDER **087173**

HEAT NUMBER A12445

SALES ORDER / RLS 055618 / 2 CERT ID / REV 00047528 / 01

SOLD TO

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

CUSTOMER P.O	O. CUSTOMER PART 13.00-1018				QUANTITY 16,286 lbs		OILS LADING 8 00058		SHIPMENT DATE 07/31/2013	
SPECIFICATION PIQ1018130-12 13.00mm (0.5118") 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 RE	QUIREMEN	TS								
				Chemical	(value of 9) = n/a)				
C .1600	Mn .6600	P .0130	s .0200	si .2000	Cu .2300	Ni .0700	Cr .1300	Mo .0190	Sn .0110	Al .0040
B .0001	v .0020	N .0066								
				Mechan	ical - Tag [Detail				
			UTSs							
67921114A			2028							
67921114B 67921115A			2028 2891							
67921115A			2891							
67921115B			1185							
67921116B			1185							
67921117A			2103							
67921117B		.506 7	2103							
				End of	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