



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

SIVACO Ontario
 a Division of SIVACO Wire Group L.P.
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Physical Test Report

WORK ORDER
089318

HEAT NUMBER
A12531

SALES ORDER / RLS
056811 / 2

CERT ID / REV
00049562 / 01

SOLD TO

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

CUSTOMER P.O. HOLD	CUSTOMER PART 12.00-1018	QUANTITY 3,828 lbs	COILS 2	LADING NO 00059552	SHIPMENT DATE 10/03/2013					
SPECIFICATION PIQ1018120-20 12.00mm (0.4720") 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 REQUIREMENTS										
Chemical (value of 9 = n/a)										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al
.170	.64	.010	.009	.20	.22	.07	.10	.016	.010	.002
B	V	N								
.0000	.007	.0070								
Mechanical - Tag Detail										
	DIAs	UTSs								
68017014A	.465	73616								
68017014B	.465	73616								
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