



SIVACO
ONTARIO
A HEICO COMPANY

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
082267

HEAT NUMBER
W33432

SALES ORDER / RLS
052336 / 2

CERT ID / REV
00043135 / 01

SOLD TO

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

CUSTOMER P.O. STOCK	CUSTOMER PART	QUANTITY 19,944 lbs	COILS 10	LADING NO 00056223	SHIPMENT DATE 03/07/2013					
SPECIFICATION PIQ101814.3-03S 14.30mm (0.5630") 1018 KP, Stress Relieve, Clean/Lime, G&R Cold Forging,										
CUSTOMER REQUIREMENTS										
Chemical (value of 9 = n/a)										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al
.1600	.7100	.0050	.0080	.2100	.0500	.0700	.0700	.0060	.0030	.0020
B	V	N								
.0002	.0060	.0060								
Mechanical - Tag Detail										
	DIAs	UTSs								
431180041A	.557	61551								
431180041B	.557	61551								
431180081A	.559	59495								
431180081B	.559	59495								
431180161A	.559	61532								
431180161B	.559	61532								
431180181A	.558	63395								
431180181B	.558	63395								
431180201A	.558	63395								
431180201B	.558	63395								
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