



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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 N5C 3K5  
 (519) 485-4150 Fax (519) 485-3039

# Physical Test Report

WORK ORDER  
**088969**

HEAT NUMBER  
**A12949**

SALES ORDER / RLS  
**056466 / 2**

CERT ID / REV  
**00049995 / 01**

SOLD TO

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

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	COILS	LADING NO	SHIPMENT DATE					
		<b>19,608 lbs</b>	<b>5</b>	<b>00059737</b>	<b>10/17/2013</b>					
SPECIFICATION <b>PIQ101814.3-03S</b>										
<b>14.30mm (0.5630") 1018 KP, Stress Relieve, Clean/Lime, G&amp;R Cold Forging,</b>										
CUSTOMER REQUIREMENTS										
<b>Chemical (value of 9 = n/a)</b>										
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cu</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>Sn</b>	<b>Al</b>
.1600	.6500	.0140	.0120	.1600	.1400	.0500	.1300	.0190	.0080	.0030
<b>B</b>	<b>V</b>	<b>N</b>								
.0000	.0040	.0063								
<b>Mechanical - Tag Detail</b>										
	<b>DIAs</b>	<b>UTSs</b>								
<b>68262902</b>	<b>.563</b>	<b>60667</b>								
<b>68262903</b>	<b>.561</b>	<b>61084</b>								
<b>68262905</b>	<b>.559</b>	<b>61125</b>								
<b>68262906</b>	<b>.560</b>	<b>61307</b>								
<b>68262907</b>	<b>.562</b>	<b>62475</b>								
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