



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  
**089962**

HEAT NUMBER  
**A12972**

SALES ORDER / RLS  
**056822 / 5**

CERT ID / REV  
**00050203 / 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>WIQ1018157-01</b>	<b>4,015 lb</b>	<b>2</b>	<b>00059814</b>	<b>10/23/2013</b>					
SPECIFICATION <b>WIQ1018157-01</b> <b>0.1570" (3.9878mm) 1018 IQ, Direct Draw, Extra Bright, G&amp;R Cold Forging, 7217.10.5090</b> <b>Non-Alloy Wire, Not Heat Treated (Other)</b> <b>Diam. &gt;= 1.5mm (0.060")</b> <b>Carbon &lt; 0.25%</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	.7000	.0050	.0150	.2300	.1500	.0500	.1000	.0200	.0070	.0050
<b>B</b>	<b>V</b>	<b>N</b>								
.0004	.0010	.0070								
<b>Mechanical - Tag Detail</b>										
	<b>DIAs</b>	<b>UTSs</b>								
<b>68287417A</b>	.156	109948								
<b>68287417B</b>	.156	114136								
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