



ISO 9001:2000, 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  
**045226**

HEAT NUMBER  
**A86685**

SALES ORDER / RLS  
**026637 / 1**

CERT ID / REV  
**00014842 / 01**

SOLD TO

**Windsor Machine & Stamping (US) Ltd**  
**26655 NorthLine Road**  
**Taylor, MI 48180**  
**United States**  
**Attn: Quality Assurance**

CUSTOMER P.O. <b>522</b>	CUSTOMER PART	QUANTITY <b>3,304 lb</b>	COILS <b>1</b>	LADING NO <b>00043376</b>	SHIPMENT DATE <b>06/17/2010</b>					
SPECIFICATION <b>WIQ1018591-01</b> <b>0.5910" (15.0mm) 1018 IQ, D.F.A.R., Clean/Lime, Windsor Machine &amp; Stamping (US, 7217.10.5030)</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>
.17	.60	.009	.009	.17	.22	.07	.090	.015	.013	.004
<b>B</b>	<b>V</b>	<b>N</b>								
.000	.001	.010								
<b>Mechanical - Summary</b>										
<u>TEST</u>	<u>UNITS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>						
<b>Diameter (inch)</b>	<b>in</b>	<b>.592</b>	<b>.592</b>	<b>0.592</b>						
<b>Tensile (psi)</b>	<b>psi</b>	<b>81729</b>	<b>81729</b>	<b>81729</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: Graham Benoit, QA Manager