



**SIVACO**  
ONTARIO  
A HEICO COMPANY

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  
**048090**

LOT NUMBER  
**A97696**

SALES ORDER / RLS  
**028452 / 3**

CERT ID / REV  
**00010005 / 01**

SOLD TO

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

CUSTOMER P.O.	CUSTOMER PART	QUANTITY <b>3,366 lbs</b>	COILS <b>1</b>	LADING NO <b>00041017</b>	SHIPMENT DATE <b>12/04/2009</b>					
SPECIFICATION <b>PIQ1018130-08</b> <b>13.00mm (0.5118") 1018 IQ, Clean/Coat, Clean/Phos/Lube, Windsor Machine &amp; Stamping Ltd, 7213.91.6000</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>
.1800	.7300	.0150	.0140	.2000	.2200	.0700	.1400	.0230	.0130	.0030
<b>B</b>	<b>V</b>	<b>N</b>								
.0001	.0010	.0061								
<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>.511</b>	<b>.511</b>	<b>0.511</b>						
<b>Tensile (psi)</b>	<b>psi</b>	<b>??????????????</b>	<b>??????????????</b>	<b>??????????????</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