



**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  
**062216**

HEAT NUMBER  
**A04856**

SALES ORDER / RLS  
**038033 / 3**

CERT ID / REV  
**00023566 / 01**

SOLD TO

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

CUSTOMER P.O.	CUSTOMER PART <b>Polymer</b>	QUANTITY <b>3,384 lbs</b>	COILS <b>1</b>	LADING NO <b>00047151</b>	SHIPMENT DATE <b>04/15/2011</b>					
SPECIFICATION <b>WCH1541565-06</b> <b>0.5650" (14.35mm) 1541 CHQ, SAFS, Clean/Phos/Polymer, Windsor Machine &amp; Stamping Ltd, 7217.10.8010</b> <b>Non-Alloy Wire, Heat Treated</b> <b>C=&gt;0.25% and &lt; 0.60%</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>
.3900	1.3900	.0110	.0190	.2500	.1600	.0600	.1100	.0170	.0080	.0040
<b>B</b>	<b>V</b>	<b>N</b>								
.0002	.0030	.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>.568</b>	<b>.564</b>	<b>0.566</b>						
<b>Tensile (psi)</b>	<b>psi</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