



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
051885

HEAT NUMBER
A00477

SALES ORDER / RLS
031001 / 6

CERT ID / REV
00012942 / 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 9,970 lbs	COILS 3	LADING NO 00042462	SHIPMENT DATE 04/09/2010					
SPECIFICATION PIQ1018130-08 13.00mm (0.5118") 1018 IQ, Clean/Coat, Clean/Phos/Lube, Windsor Machine & Stamping Ltd, 7213.91.6000										
CUSTOMER REQUIREMENTS										
Chemical (value of 9 = n/a)										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al
.1600	.6500	.0100	.0120	.2200	.1500	.0600	.0800	.0340	.0120	.0040
B	V	N								
.0005	.0020	.0065								
Mechanical - Summary										
<u>TEST</u>	<u>UNITS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>						
Diameter (inch)	in	.513	.511	0.512						
Tensile (psi)	psi	73537	72851	73174						
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