



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
088029

HEAT NUMBER
A12559

SALES ORDER / RLS
055899 / 3

CERT ID / REV
00048951 / 01

SOLD TO

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

| | | | | | | | | | | |
|--|---------------------------------|-------------------------------|-------------------|------------------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| CUSTOMER P.O. stock | CUSTOMER PART Polymer | QUANTITY 16,610 lbs | COILS 8 | LADING NO 00059263 | SHIPMENT DATE 09/16/2013 | | | | | |
| SPECIFICATION WCH1541565-06 0.5650" (14.351mm) 1541 CHQ, SAFS, Clean/Phos/Polymer, Windsor Machine & Stamping Ltd, 7217.10.8010 Non-Alloy Wire, Heat Treated C=>0.25% and < 0.60% | | | | | | | | | | |
| CUSTOMER REQUIREMENTS | | | | | | | | | | |
| Chemical (value of 9 = n/a) | | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | Al |
| .3900 | 1.3900 | .0130 | .0060 | .1900 | .1600 | .0500 | .1100 | .0200 | .0080 | .0040 |
| B | V | N | | | | | | | | |
| .0002 | .0060 | .0082 | | | | | | | | |
| Mechanical - Summary | | | | | | | | | | |
| <u>TEST</u> | <u>UNITS</u> | <u>HIGH</u> | <u>LOW</u> | <u>AVERAGE</u> | | | | | | |
| Diameter (inch) | in | .568 | .5655 | 0.567 | | | | | | |
| Tensile (psi) | psi | 75248 | 72423 | 73615 | | | | | | |
| 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