



**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  
**072715**

HEAT NUMBER  
**A07932**

SALES ORDER / RLS  
**044794 / 2**

CERT ID / REV  
**00033014 / 01**

SOLD TO

**G & R Forging**  
**7072 Smith Industrial Drive**  
**McGregor, ON N0R 1J0**  
**Canada**

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	COILS	LADING NO	SHIPMENT DATE					
		<b>8,502 lbs</b>	<b>4</b>	<b>00051559</b>	<b>03/12/2012</b>					
SPECIFICATION <b>PCH104512.0-00</b> <b>12.00mm (0.4724") 1045 CHQ, Clean/Coat, Clean/Lime, G&amp;R Cold Forging,</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>
.4500	.6600	.0080	.0090	.1900	.0900	.0400	.0400	.0180	.0120	.0040
<b>B</b>	<b>V</b>	<b>N</b>								
.0000	.0020	.0058								
<b>Mechanical - Tag Detail</b>										
	<b>DIAs</b>	<b>UTSs</b>								
648529-13A	.469	109954								
648529-13B	.469	109954								
648529-14A	.470	108934								
648529-14B	.470	108934								
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