



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
090126

HEAT NUMBER
A12947

SALES ORDER / RLS
056805 / 2

CERT ID / REV
00050328 / 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					
		8,376 lbs	4	00059923	10/28/2013					
SPECIFICATION PCH104511.5-00										
11.50mm (0.4528") 1045 CHQ, CR ROD Clean /Coat, Clean/Lime, G&R Cold Forging,										
CUSTOMER REQUIREMENTS										
Chemical (value of 9 = n/a)										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al
.4700	.6400	.0090	.0100	.2100	.1400	.0500	.0600	.0190	.0080	.0030
B	V	N								
.0000	.0010	.0075								
Mechanical - Tag Detail										
	DIAs	UTSs								
68328501A	.451	115144								
68328501B	.451	115144								
68328502A	.454	114268								
68328502B	.454	114268								
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