



SPAN FORGING PVT. LTD.

Mfrs. of : Steel Forgings, CNC Turned Components, Centrifugal Casting of alloy steel

Works : Village Tatarpur (Near Prithla), Teh. & Distt. Palwal

E-mail : spanforging@rediffmail.com

Ref. No.

TEST REPORT

Date.....

Issued to: M/s SARA SAE(P)Ltd.Unit-II
A/2Sara Ind.Estate Ltd.Chak-
rata Road,Selaqui,Dehradun.

Report No.

160

D.O.T.

30/5/2012

D.O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7683-A

Heat No.

S-117-A

RESULTS

Chemical Analysis

By Spectrometer

Element	%
Carbon	0.097
Silicon	0.226
Sulphur	0.025
Phosphorus	0.0321
Manganese	0.487
Nickel	0.0818
Chromium	0.139
Molybdenum	0.02
Vanadium	0.0043
Copper	0.0454
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0356
Titanium	0.0113
Iron	98.70

Checked By
Arun Mishra

Authorised Signatory
(Q.M / T.M)

1. The results listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
3. The report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.
7. *Not Covered under NABL Scope.



SHARU STEELS (P) LTD.

B-48 & D-254, Phase-VII, Focal Point, LUDHIANA - 141 010.
E-mail : info@sharusteels.com & sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

F-QCD-03



TEST CERTIFICATE

W.S. SARA SAE PRIVATE LIMITED UNIT NO.4 BACK SIDE RACHA SHRI SATSANG GHAR, VILLAGE MAHAL ROAD, G.T. ROAD, GORAYA (PUNJAB)	T.C. No. 1836	Date 22-09-2012
	Invoice No. 1368	
	Truck No. PB10AK-9491	

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
SAE1068	40 MM	S-117	L/R/T	YELLOW	AS ROLLED	7.530 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.06	0.46	0.026	0.023	0.19				0.028						

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	7	Gas content (ppm)	
T	A		B		C		D		Decarb. (MM)	O ₂	
	H	T	H	T	H	T	H				
	STD							N ₂			
MAX								Micro- Structure	OK	H ₂	
ACTUAL	1.0		1.0		1.0		1.5				

MECHANICAL PROPERTIES

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R _u	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqd.							OK	OK	OK
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Reqd.									
Actual									

Remarks :

4.5 NOV 2012

SHARU STEELS (P) LTD.
SHRI SATSANG GHAR

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLES DRAWN AS PER Q.A.P.

Prepared by
M. SinghAuthorised Signatory
D. S. Dutt