



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.

157

D.O.T.

30/5/2012

D.O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7682-A

Heat No.

S-113-A

RESULTS

Chemical Analysis
By Spectormeter

<u>Element</u>	<u>%</u>
Carbon	0.0989
Silicon	0.226
Sulphur	0.0278
Phosphorus	0.032
Manganese	0.49
Nickel	0.0777
Chromium	0.14
Molybdenum	0.0195
Vanadium	0.0042
Copper	0.046
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.036
Titanium	0.0112
Iron	98.70

Checked By
Arun Mishra

Authorised Signatory
(Q.M / T.M)

1. The result 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 with in 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-45 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
E-mail : info@sharusteels.com & sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

TEST CERTIFICATE

F-QCD-03



M/S. SARA SAE PRIVATE LIMITED UNIT NO.4 BACK SIDE RADHA SWAMI SATSANG GHAR, VILLAGE MAHAL ROAD, G.T. ROAD, GORAYA (PUNJAB)		T.C. No. 1835 Invoice No. 1359 Truck No. PS160X-9491	Date 22-09-2012
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN	QNTY. M.T.	NO. OF PCS.
SAE1008	48 MM	S-113	L/WT	ORANGE	AS ROLLED	6.899 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.86	0.45	0.020	0.022	0.29					0.021					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	Gas content (ppm)	
	A		B		C		D		Decarb. (MM)		
	T	H	T	H	T	H	T	H			
STD									Micro- Structure		N ₂
MAX											H ₂
ACTUAL	1.0		1.0		1.0		1.5		0X		

MECHANICAL PROPERTIES

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Rc	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqd.							0X	0X	0X
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Reqd.									
Actual									

Remarks :

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

C. Singh
PREPARED BY

J. Singh
AUTHORISED SIGNATORY