



# 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

## TEST REPORT

Date.....

Ref. No.....  
Issued to: M/s SARA SAE(P)Ltd.Unit-II  
A/2Sara Ind.Estate Ltd.Chak-  
rata Road,Selaqui,Dehradun.

Report No.

166

D.O.T.

30/5/2012

D.O.R

29/5/2012

Heat No.

S-123-A

### Sample Description

TEST SAMPLE

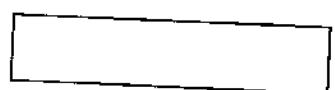
Sample No.

7685-A

## RESULTS

### Chemical Analysis

By Spectrometer



<u>Element</u>	<u>%</u>
Carbon	0.0985
Silicon	0.216
Sulphur	0.0273
Phosphorus	0.0323
Manganese	0.491
Nickel	0.0798
Chromium	0.139
Molybdenum	0.019
Vanadium	0.0043
Copper	0.0461
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0349
Titanium	0.0115
Iron	98.70

Checked By  
Arun Mishra

Authorised Signatory  
(Q.M / T.M )

The results listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back. The report can not be used as evidence in a court of law. Samples will be destroyed after 15 days.

Any Complaints about this report should be communicated within 7 days of issue of this report.

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# SHARU STEELS (P) LTD.

B-48 & 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

MS. SARA SAE PRIVATE LIMITED UNIT X0.4 BACK SIDE RADHA SWAMI SATSANG GHAR, VILLAGE MAHAL ROAD, G.T. ROAD, GORAYA (PUNJAB)				T.C. No. 1827	Date 21-09-2012
				Invoice No. 1353	
				Truck No. PB1006-2947	
GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.
SAE14B8	48 MM	S-123	L/R/T	YELLOW	AS ROLLED

### CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min	-														
Max	-														
Actual	0.46	0.39	0.024	0.032	0.28					0.027					

### METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	6	Gas content (ppm)
	A	B	C	D						
	T	H	T	H	T	H	T	Decarb. (MM)		O <sub>2</sub>
STD MAX										N <sub>2</sub>
ACTUAL	1.5	1.4	1.3	1.2	1.5			Micro-Structure	OK	H <sub>2</sub>

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

### HARDENABILITY (HRC) AS PER IS : 3846

Distance											
Regd.											
Actual											

Remarks :

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