



# 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.

178

D..O.T.

30/5/2012

D..O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7689-A

Heat No.

S-131-A

## RESULTS

Chemical Analysis  
By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0933
Silicon	0.216
Sulphur	0.0264
Phosphorus	0.0324
Manganese	0.489
Nickel	0.0782
Chromium	0.137
Molybdenum	0.0191
Vanadium	0.0044
Copper	0.0466
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0347
Titanium	0.0115
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 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-251, Phase-VII, Focal Point, LUDHIANA - 141 010.  
E-mail : info@sharusteels.com & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT  
METALLURGICAL TEST REPORT

F-QCD-03



## TEST CERTIFICATE

SARA SAE PRIVATE LIMITED UNIT NO.4  
BACK SIDE RADHA SWAMI SATSANG GHAR,  
VILLAGE NAHAL ROAD, G.T. ROAD,

GORAYA (PUNJAB)

T.C. No. 2488

Date 23-11-2012

Invoice No. 1834

Truck No. PB29-9605

GRADE	SIZE	HEAT NO	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND	QNTY MT	NO. OF PCS
SAE1006	56 MM	6-137	L/RT	GREY	AS ROLLED	6.425 MT	LOOSE

### CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.07	0.43	0.017	0.030	0.15					0.024					

### 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		Decarb. (MM)		O <sub>2</sub>
T	H	T	H	T	H	T	H			N <sub>2</sub>
STD MAX								Micro- Structure	F+P	H <sub>2</sub>
ACTUAL	1.5		1.0		1.5		1.0			

### MECHANICAL PROPERTIES

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

### HARDENABILITY (HRC) AS PER IS : 3848

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.

PREPARED BY

AUTHORISED SIGNATORY