



# 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.

184

D..O.T.

30/5/2012

D..O.R

29/5/2012

Heat No.

S-137-A

Sample Description

TEST SAMPLE

Sample No.

7691-A

## RESULTS

Chemical Analysis  
By Spectrometer

Element	%
Carbon	0.0711
Silicon	0.213
Sulphur	0.0084
Phosphorus	0.0093
Manganese	0.36
Nickel	0.0082
Chromium	0.0046
Molybdenum	0.002
Vanadium	0.0013
Copper	0.0039
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0201
Titanium	0.0015
Iron	99.30

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

**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**

F-QCD-03

**TEST CERTIFICATE**

M/S. SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR  DEHRADUN (UTTRAKHAND)	T.C. No. 3429 Invoice No. -2512 Truck No. PB-19E-9097	Date 01-04-2012
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
AISI-1008	50 MM	S-137	L/HT	ORANGE	AS ROLLED	7395	LOOSE

**CHEMICAL COMPOSITION IN PERCENTAGE**

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.08	0.40	0.032	0.035	0.19					0.020					

**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	Micro-Structure	OK		N <sub>2</sub>
STD MAX											H <sub>2</sub>	
ACTUAL	1.5		1.0		1.0		1.5					

**MECHANICAL PROPERTIES**

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R <sub>b</sub>	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