



# 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
Sample Description TEST SAMPLE	Sample No. 7691-A	D.O.R 29/5/2012
		Heat No. S-137-A

## RESULTS

Chemical Analysis  
By Spectrometer

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<u>Element</u>	<u>%</u>
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

  
Authorised Signatory  
(Q.M / T.M )

Checked By  
Arun Mishra

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](mailto:info@sharusteels.com) & [sharusteels@connect2.dsl.net](mailto:sharusteels@connect2.dsl.net)

**QUALITY ASSURANCE DEPARTMENT**  
**METALLURGICAL TEST REPORT**

F-QCD-03



ISO 9001-2008

ISO 14001-2004

**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	Date 01/04/2012	
				Invoice No. -2512		
				Truck No. PB.19E-9097		

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	EOOSE

**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)		
STD MAX	A		B		C		D		Decarb. (MM)		O <sub>2</sub>	N <sub>2</sub>
	T	H	T	H	T	H	T	H				
ACTUAL	1.5		1.0		1.0		1.5			OK		H <sub>2</sub>

**MECHANICAL PROPERTIES**

	UT.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.

*C. Singh*  
PREPARED BY

*C. Singh*  
AUTHORISED SIGNATORY