



# 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

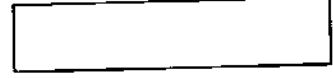
Date.....

Issued to: M/s SARA SAE(P)Ltd.Unit-II A/2Sara Ind.Estate Ltd.Chak- rata Road,Selaqui,Dehradun.	Report No. 172	D.O.T. 30/5/2012
Sample Description TEST SAMPLE	Sample No. 7687-A	D.O.R 29/5/2012
		Heat No. S-127-A

## RESULTS

### Chemical Analysis

By Spectrometer



Element	%
Carbon	0.0945
Silicon	0.218
Sulphur	0.0257
Phosphorus	0.0331
Manganese	0.488
Nickel	0.0769
Chromium	0.138
Molybdenum	0.019
Vanadium	0.0044
Copper	0.0462
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0422
Titanium	0.0114
Iron	98.70

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 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

W/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.	1828	Date	21-09-2012
				Invoice No.	1354		
				Truck No.	P810CG-2947		

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
E1008	68 MM	S-127	L/HT	GREY	AS ROLLED	3.745 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	0.39	0.025	0.034	0.16					0.020					

### METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	7	Gas content (ppm)			
A		B		C		D				Decarb. (MM)	O <sub>2</sub>	N <sub>2</sub>	H <sub>2</sub>
T	H	T	H	T	H	T	H	Micro- Structure	OK				
STD													
MAX													
Actual	1.5		1.0		1.0		1.5						

### MECHANICAL PROPERTIES

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

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

Distance										
Actual										
Actual										

Remarks :