



# 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.

169

D.O.T.

30/5/2012

D.O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7686-A

Heat No.

S-124-A

## RESULTS

### Chemical Analysis

By Spectrometer



### Element

%

Carbon	0.0827
Silicon	0.216
Sulphur	0.025
Phosphorus	0.0306
Manganese	0.489
Nickel	0.0782
Chromium	0.137
Molybdenum	0.0196
Vanadium	0.004
Copper	0.0453
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0373
Titanium	0.0112
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](mailto:info@sharusteels.com) & [sharusteels@connect2.dsl.net](mailto:sharusteels@connect2.dsl.net)

QUALITY ASSURANCE DEPARTMENT  
METALLURGICAL TEST REPORT

F-QCD-03



## TEST CERTIFICATE

M/S SARA SRE PRIVATE LIMITED UNIT NO.4 BACK SIDE RADHA SWAMI SATSANG GHAR, VILLAGE MAHAL ROAD, G.T. ROAD, GORAYA (PUNJAB)	T.C. No. 1829	Date 21-09-2012
	Invoice No. 1355	
	Truck No. PB18CG-2947	

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
SAE1008	68 MM	S-124	L/HIT	PINK	AS ROLLED	6.928 MT	LOOSE

### CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Sr	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.07	0.42	0.025	0.033	0.18				0.023						

### METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	Gas content (ppm)	
A		B		C		D		Decarb. (MM)	O <sub>2</sub>	N <sub>2</sub>
T	H	T	H	T	H	T	H			
STD MAX										
ACTUAL	1.5	1.4	1.6	1.6	1.5	1.5	1.5	OK		H <sub>2</sub>

MECHANICAL PROPERTIES						MACRO	ULTRASONIC TEST	MIX UP TEST
UT.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R <sub>s</sub>	OK	OK	OK
Reqd.								
Actual								

HARDENABILITY (HRC) AS PER IS : 3848											
Distance											
Reqd											
Actual											
Remarks :											

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLES DRAWN AS PER Q.A.P.	<i>C. Singh</i> PREPARED BY	<i>H. S. Dhillon</i> AUTHORISED SIGNATORY
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