



SPAN FORGING PVT. LTD.

Mfrs. of : Steel Forgings, CNC Turned Components, Centrifugal Casting of alloy steel

Works : Village Tatarpur (Near Prithia), 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.

160

D.O.T.

30/5/2012

D.O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7683-A

Heat No.

S-117-A

RESULTS

Chemical Analysis
By Spectrometer

Element	%
Carbon	0.097
Silicon	0.226
Sulphur	0.025
Phosphorus	0.0321
Manganese	0.487
Nickel	0.0818
Chromium	0.139
Molybdenum	0.02
Vanadium	0.0043
Copper	0.0454
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0356
Titanium	0.0113
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 with in 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 & sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

TEST CERTIFICATE

F-QCD-03



M/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. 1836 Invoice No. 1368 Truck No. PB18AX-9491	Date 22-09-2012
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. OF PCS.
SAE3008	40 MM	S-117	L/HT	YELLOW	AS ROLLED	7.538 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.06	0.46	0.028	0.023	0.19	-	-	-	-	0.028	-	-	-	-	-

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 ₂
T	H	T	H	T	H	T	H			Micro-Structure	OK	N ₂
STD												H ₂
MAX												
ACTUAL	1.0		1.0		1.0		1.3					

MECHANICAL PROPERTIES						MACRO	ULTRASONIC TEST	MIX UP TEST
U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R _h			
Reqd.						OK	OK	OK
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.

PREPARED BY

AUTHORISED SIGNATORY