



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.

166

D..O.T.

30/5/2012

D..O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7685-A

Heat No.

S-123-A

RESULTS

Chemical Analysis

By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0985
Silicon	0.216
Sulphur	0.0273
Phosphorus	0.0323
Manganese	0.491
Nickel	0.0798
Chromium	0.139
Molybdenum	0.019
Vanadium	0.0043
Copper	0.0461
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0349
Titanium	0.0115
Iron	98.70

Checked By

Arun Mishra

Authorised Signatory

(Q.M / T.M)

The result listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back. The report can not be used as an evidence in a court of law. Samples will be destroyed after 15 days. Any Complaints about this report should be communicated within 7 days of issue of this report. This report shall not be reproduced except in full, without the written permission of the Laboratory. 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@connect2dsl.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. 1827 Invoice No. 1353 Truck No. PB10C6-2947	Date 21-09-2012
---	--	--	-----------------

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
SAE1008	40 MM	S-123	L/RT	YELLOW	AS ROLLED	4.835 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min	-														
Max	-														
Actual	0.46	0.39	0.024	0.032	0.20					0.027					

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 ₂		
T	H	T	H	T	H	T	H		Micro-Structure	OK	N ₂
STD								H ₂			
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. / Rs	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqd.							OK	OK	OK
Actual									

HARDENABILITY (HRC) AS PER IS : 3846

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.

Minah
PREPARED BY

[Signature]
AUTHORISED SIGNATORY