



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.

190

D..O.T.

30/5/2012

D..O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

7693-A

Heat No.

S-143-A

RESULTS

Chemical Analysis

By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0938
Silicon	0.209
Sulphur	0.0273
Phosphorus	0.0329
Manganese	0.498
Nickel	0.0799
Chromium	0.132
Molybdenum	0.0184
Vanadium	0.0041
Copper	0.0456
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0353
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 LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
E-mail : info@sharusteels.com & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

TEST CERTIFICATE

F-QCD-03



NVS SARA SAE PRIVATE LIMITED UNIT NO.4 BACK SIDE GADHA SWAMI SATSANG GHAR, VILLAGE MATAG ROAD, G.T. ROAD, GURGAU (PUNJAB)	T.C. No.	2516	Date	25-11-2012
	Invoice No.	1849		
	Truck No.	PB29-9645		

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS
SARU	60mm	S-143	L/RT	PINK	AS ROLLED	1.175	1000

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.															
Max.															
Actual	0.30	0.32	0.014	0.004	0.18					0.021					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	T	Gas content (ppm)	
A		B		C		D		Decarb. (MM)	O ₂		N ₂	
T	H	T	H	T	H	T	H			Micro-Structure		P+7
STD. MAX.												
ACTUAL	1.8		1.8		1.5		1.0	0.5				

MECHANICAL PROPERTIES

	UTS	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R _c	MACRO	ULTRASONIC TEST	MIX UP TEST
Recd.							OK	OK	OK
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Recd.									
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

Manoj Kumar

AUTHORISED SIGNATORY

P.K. SHARMA

"This document is available to a taxable person against this copy"