



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. 187	D.O.T. 30/5/2012
Sample Description TEST SAMPLE	Sample No. 7692-A	D.O.R 29/5/2012
		Heat No. S-140-A

RESULTS

Chemical Analysis
By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0717
Silicon	0.21
Sulphur	0.0079
Phosphorus	0.009
Manganese	0.356
Nickel	0.0095
Chromium	0.009
Molybdenum	0.002
Vanadium	0.0015
Copper	0.0039
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.021
Titanium	0.0012
Iron	99.30


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 & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

F-QCD-03



ISO TS

16949 : 2009

TEST CERTIFICATE

M/S. SARA SAR PRIVATE LIMITED UNIT NO.4
BACK SIDE RADHA SWAMI SATSANG GHAR,
VILLAGE MAHAL ROAD, G.T. ROAD,
GORAYA (PUNJAB)

T.C. No. 2515

Date 25-11-2012

Invoice No. 1848

Truck No. PB29-9605

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY. M.T.	NO. OF PCS.
SAR1008	68 MM	S-140	L/HT	ORANGE	AS ROLLED	7.045	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.09	0.41	0.020	0.028	0.15						0.022				

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	6/7	Gas content (ppm)	
	A		B		C		D			Decarb. (MM)	
	T	H	T	H	T	H	T	H			
STD MAX											
ACTUAL	1.5		1.0		1.0		2.0				

MECHANICAL PROPERTIES							MACRO	ULTRASONIC TEST	MIX UP TEST
	UTS.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Ra	OK	OK	OK
Reqd.									
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance											
Regd.											
Actual											

Remarks :

26/12/04