



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

D..O.R

29/5/2012

Sample Description

TEST SAMPLE

Sample No.

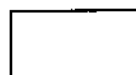
7692-A

Heat No.

S-140-A

RESULTS

Chemical Analysis
By Spectormetor



<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

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 & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

TEST CERTIFICATE

F-QCD-03



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 Invoice No. 1848 Truck No. PB29-9605		Date 25-11-2012											
GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	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)		O ₂				
	T	H	T	H	T	H	T	H			N ₂				
STD MAX									Micro-Structure		H ₂				
ACTUAL	1.5		1.0		1.0		2.0		P+P						
MECHANICAL PROPERTIES								MACRO		ULTRASONIC TEST		MIX UP TEST			
	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Rb									
Reqd.								OK		OK		OK			
Actual															
HARDENABILITY (HRC) AS PER IS : 3848															
Distance															
Regd.															
Actual															
Remarks :															

47692-011