



SPAN FORGING PVT. LTD.

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

Works : Village Tatarpur (Near Prithila), 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. 175	D.O.T. 30/5/2012
Sample Description TEST SAMPLE	Sample No. 7688-A	D.O.R 29/5/2012
		Heat No. S-129-A

RESULTS

Chemical Analysis

By Spectrometer

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Element	%
Carbon	0.0945
Silicon	0.219
Sulphur	0.0255
Phosphorus	0.0328
Manganese	0.49
Nickel	0.0784
Chromium	0.137
Molybdenum	0.0192
Vanadium	0.0045
Copper	0.0464
Niobium/Columbium	0.001
Cobalt	0.0015
Aluminium	0.0352
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 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

TEST CERTIFICATE



S. SARA SAN PRIVATE LIMITED UNIT NO.4
BACK SIDE RAJWA SWAMI SATSANG GHAR,
VILLAGE MARAL ROAD, G.T. ROAD,
GORAKTA (PUNJAB)

T.C. No. 2486

Date 23-11-2012

Invoice No. 1836

Truck No. PB29-9605

GRADE	SIZE	HEAT NO	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN	QNTY M.T	NO OF PCS
S45C	56 MM	S-129	L/HT	YELLOW	AS ROLLED	7.615 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.61	0.55	0.015	0.025	0.16					0.026					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	1	Gas content (ppm)	
STD MAX	A		B		C		D		Decarb. (MM)	O ₂	N ₂
	T	H	T	H	T	H	T	H			
	1.0		1.5		1.0		2.0				
ACTUAL	1.0		1.5		1.0		2.0		Micro- Structure	P	H ₂

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