



SPAN FORGING PVT. LTD.

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

Mobile : 9999986702

9999986704

9810010535

Works : Village Tatarpur (Near Prithla) Teh. & Distt. Palwal

E-mail : spanforging@rediffmail.com

TEST REPORT

Ref. No.

Date.....

Issued to: M/s SARA SAE(P)Ltd.Unit-II
A/2Sara Ind.Estate Ltd.Chak-
rata Road,Selaqui,Dehradun.

Report No.

1157

D..O.T.

9/1/2012

D..O.R

7/1/2012

Sample Description

Dia-56

Sample No.

7166

Heat No.

R-636

RESULTS

Chemical Analysis
By Spectrometer

Element

%

Carbon	0.0695
Silicon	0.507
Sulphur	0.0118
Phosphorus	0.0273
Manganese	1.48
Nickel	10.05
Chromium	16.83
Molybdenum	2.09
Vanadium	0.0713
Copper	0.382
Niobium/Columbium	0.0129
Cobalt	0.208
Aluminium	0.0126
Titanium	0.0167
Iron	68.20

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.



PARVATI P.LTD.

Regd Office & Works : 27, Rajasthani Udyog Nagar, G. T. Karnal Road,
NEW DELHI - 33, Phone : 91 - 11 - 47029900 Fax : 91 - 11 - 47029922

TEST CERTIFICATE

Customer Name & Destination :
M/S. SARA SAE PVT. LTD.

T.C.NO.:P-45

Date :31.12.11

ORDER NO : VERBAL

Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	56 MM	110	BLUE	4960 4920 1685

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS	C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.											
	Max.											
Heat No.	Grade											
R-635	AISI-316	.056	1.52	.46	.017	.034	16.64	10.06	2.03	.0593	56 MM	47
R-636	AISI-316	.070	1.51	.50	.020	.035	16.76	10.06	2.04	.0610	56 MM	47
R-637	AISI-316	.067	1.48	.54	.019	.034	16.79	10.10	2.06	.0600	56 MM	16

ULTRASONIC TESTING
ACC. STD : 6mm FBH

REMARKS : NA

MECHANICAL PROPERTIES : TEST STD ASTM A370

Test Condition	UTS (N/MM ²)	YS (N/MM ²)	% EL	% RA	Hardness (BHN)	
					Min.	Max.
SPEC	-	-	-	-	-	-
RESULT	-	-	-	-	-	-

METALLURGICAL TEST RESULT

Grain Size
E 112

IMPACT TESTING :

Test Std :

INCLUSION RATING ASTM E - 45

Test Temp :

Sr. No

Impact Energy (J)

Average

	A	B	C	D			
Thin	-	-	-	-	1	-	
Thick	-	-	-	-	2	-	
					3	-	

JOMINY HARDENABILITY : ASTM - 3848

MACROSTREAK FLAW TEST (IS - 4075)

DIST mm/Inch	J	J	J	J	J	J	Macro Test (ASTM E - 381)	1 st Step	2 nd Step	3 rd Step
ACTUAL HRC										

Visual Inspection :

Remarks

- 1 Impact Testing as per DINEN 10015 - 1
- 2 Ultrasonic testing as per ASTM A 388
- 3 Material is free from residual radioactive elements.
- 4 Lead not added during manufacturing.

For Parvati P. Ltd.

For Parvati P. Ltd.

WE CONFIRM THAT THE TEST
CERTIFICATE FINDINGS ARE
CORRECT & RESULTS ARE
AS PER STANDARD /
CUSTOMER'S REQUIREMENTS

Chemist

[Signature]

Authorized Signatory (O.C.)

