



SPAN FORGING PVT. LTD.

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

Mobile : 9999986702

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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.

1232

D..O.T.

15/3/2012

D..O.R

15/3/2012

Sample Description

DIA-56

Sample No.

7411

Heat No.

R-666

RESULTS

Chemical Analysis
By Spectormetor

Element

%

Carbon	0.0492
Silicon	0.526
Sulphur	0.0096
Phosphorus	0.0206
Manganese	1.56
Nickel	10.26
Chromium	17.17
Molybdenum	2.13
Vanadium	0.0611
Copper	0.378
Niobium/Columbium	0.0125
Cobalt	0.182
Aluminium	0.0121
Titanium	0.0119
Iron	67.60

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-70	Date : 2.3.12	ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	56 MM	50 47	BLUE	5315 4965

CHEMICAL ANALYSIS IN PERCENTAG

ELEMENTS	C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.											
	Max.											
Heat No.	Grade											
R-666	AISI-316	.056	1.57	.53	.016	.031	16.77	10.06	2.06	.0645	56 MM	50
R-667	AISI-316	.060	1.49	.57	.016	.032	16.73	10.02	2.05	.0674	56 MM	47

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 (BHIN)	
						Min.	Max.
SPEC	-	-	-	-	-	-	-
RESULT	-	-	-	-	-	-	-

METALLURGICAL TEST RESULT

INCLUSION RATING ASTM E - 45

	Grain Size E 112				IMPACT TESTING :		
	A	B	C	D	Sr. No	Impact Energy (J)	Average
Thin	-	-	-	-	1	-	
Thick	-	-	-	-	2	-	
					3	-	

JOMINY HARDENABILITY : ASTM - 3848

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

MACROSTREAK FLAW TEST (IS - 4075)

Visual Inspection :

Remarks

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

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

For Parvati P. Ltd.

Chemist



For Parvati P. Ltd.

Authorized Signatory (Q.C.)