



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

TEST REPORT

Date.....

Ref. No.

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

Report No.

1175

D.O.T.

20/1/2012

D.O.R

20/1/2012

Sample Description

Dia-56

Sample No.

7223

Heat No.

R-647

RESULTS

Chemical Analysis

By Spectrometer



Element %

Carbon	0.0799
Silicon	0.501
Sulphur	0.0225
Phosphorus	0.0325
Manganese	1.49
Nickel	10.03
Chromium	16.71
Molybdenum	2.06
Vanadium	0.0706
Copper	0.387
Niobium/Columbium	0.0238
Cobalt	0.222
Aluminium	0.0116
Titanium	0.0106
Iron	68.30

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 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.



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. DEHRADUN		T.C.NO.:P-53	Date :16.1.12	ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	56 MM	45 43	BLUE	

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
R-646	AISI-316	.070	1.53	.54	.015	.032	16.89	10.03	2.04	.0726	Blue	56 MM	45
R-647	AISI-316	.072	1.49	.48	.018	.034	16.73	10.03	2.02	.0674	Blue	56 MM	43

ULTRASONIC TESTING ACC. STD : 6mm FBH	REMARKS : NA
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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

INCLUSION RATING ASTM E - 45				Grain Size E 112	IMPACT TESTING :		
A	B	C	D		Test Temp :	Test Std :	
Thin	-	-	-		1	-	
Thick	-	-	-		2	-	
					3	-	

JOMINY HARDENABILITY : ASTM - 3848							MACROSTREAK FLAW TEST (IS - 4075)		
DIST mm/Inch	J	J	J	J	J	J	Marco Test (ASTM E - 381)	1 st Step	2 nd Step
ACTUAL HRC									3 rd Step

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.									

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.)