



SPAN FORGING PVT. LTD.

Mobile : 9999986702

9999986704

9810010535

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

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.

1174

D..O.T.

20/1/2012

D..O.R

20/1/2012

Sample Description

Dia-56

Sample No.

7222

Heat No.

R-646

RESULTS

Chemical Analysis
By Spectrometer

Element	%
Carbon	0.0754
Silicon	0.561
Sulphur	0.0083
Phosphorus	0.0302
Manganese	1.55
Nickel	10.17
Chromium	17.06
Molybdenum	2.11
Vanadium	0.0712
Copper	0.381
Niobium/Columbium	0.0209
Cobalt	0.182
Aluminium	0.0119
Titanium	0.0277
Iron	67.70

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.



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

CHEMICAL ANALYSIS INTERCERTIFICATE														
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

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 :

INCLUSION RATING ASTM E - 45				Test Temp :	Test Std :	Average
A	B	C	D	Sr. No	Impact Energy (J)	
				1	-	
Thin	-	-	-	2	-	
Thick	-	-	-	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

- 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.



Authorized Signatory (Q.C.)