



# 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.

D.O.T.

1174

20/1/2012

D.O.R

20/1/2012

Sample Description

Sample No.

Heat No.

Dia-56

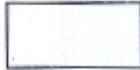
7222

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 - 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**

## MECHANICAL PROPERTIES : TEST STD ASTM A370

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

#### METALLURGICAL TEST RESULT

METALLURGICAL TEST RESULT				Grain Size E 112	Test Temp :	Test Std :	-
INCLUSION RATING ASTM E - 45					Sr. No	Impact Energy (J)	Average
A	B	C	D		I	-	-

### 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.

✓

John  
A. 

Authorised by DELHI (Q.C.)