



# SPAN FORGING PVT. LTD.

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

Mobile : 99999986702

99999986704

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

E-mail : spanforging@rediffmail.com

## TEST REPORT

Ref. No. ....

Date.....

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

Report No.

D..O.T.

1059

16/12/2011

D..O.R

16/12/2011

Sample No.

Heat No.

7032

R-625

Sample Description

T.S.56Dia

## RESULTS

### Chemical Analysis

By Spectrometer



Element	%
Carbon	0.0436
Silicon	0.523
Sulphur	0.0019
Phosphorus	0.0241
Manganese	1.54
Nickel	10.22
Chromium	17.03
Molybdenum	2.07
Vanadium	0.0694
Copper	0.308
Niobium/Columbium	0.0078
Cobalt	0.164
Aluminium	0.0078
Titanium	0.0053
Iron	67.90

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 Idyaog 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-33

Date : 6.12.11

ORDER NO : VERBAL

Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	56 MM	50 38	BLUE	5275 3995

### CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
R-624	AISI-316	.055	1.43	.51	.014	.032	16.72	10.07	2.04	.0568		56MM	50
R-625	AISI-316	.066	1.58	.62	.014	.031	16.82	10.09	2.04	.0632		56MM	38

ULTRASONIC TESTING  
ACC. STD : 6mm FBH

REMARKS : NA

### MECHANICAL PROPERTIES : TEST STD ASTM A370

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

### METALLURGICAL TEST RESULT

INCLUSION RATING ASTM E - 45				Grain Size E 112	Test Temp : Test Std : Sr. No	IMPACT TESTING :	
A	B	C	D			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 <sup>st</sup> Step	2 <sup>nd</sup> Step	3 <sup>rd</sup> 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.

For Parvati Ltd.

Chemist

