



SPAN FORGING PVT. LTD.

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

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

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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.

1057

D.O.T.

16/12/2011

D.O.R

16/12/2011

Sample Description

T.S.40Dia

Sample No.

7030

Heat No.

R-623

RESULTS

Chemical Analysis

By Spectrometer

Element	%
Carbon	0.0629
Silicon	0.498
Sulphur	0.0025
Phosphorus	0.0213
Manganese	1.41
Nickel	10.33
Chromium	17.04
Molybdenum	2.07
Vanadium	0.0633
Copper	0.304
Niobium/Columbium	0.0214
Cobalt	0.195
Aluminium	0.007
Titanium	0.0076
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 Trading Nagar, G. T. Karnal Road,
NEW DELHI - 35, Phone : 91 - 11 - 47029900 Fax : 91 - 11 - 47029922

TEST CERTIFICATE

Customer Name & Destination : M/S. SARA SAE PVT. LTD.		T.C.NO.:P-32	Date : 04.12.11			
			ORDER NO : VERBAL			
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	40 MM	100	BLUE	5355
			56 MM	48	BLUE	5060

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
R-622	AISI-316	.069	1.52	.53	.017	.030	16.86	10.12	2.05	.0592	Blue	56 MM	48
R-623	AISI-316	.066	1.49	.51	.014	.027	16.78	10.09	2.03	.0614	Blue	40 MM	100

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

INCLUSION RATING ASTM E - 45

	A	B	C	D
Thin	-	-	-	-
Thick	-	-	-	-

Grain Size
F 112

Test Temp :

Sr. No

IMPACT TESTING :

Test Std :

Impact Energy (J)

Average

JOMINY HARDENABILITY : ASTM - 3848

DIST mm/Inch	J	J	J	J	J	J
ACTUAL HRC						

Macro Test
(ASTM E - 381)

MACROSTREAK PLAW TEST (IS - 4075)

1st Step

2nd Step

3rd Step

Visual Inspection :

Remarks

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

For Parvati P. Ltd

For Parvati P. Ltd

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

Chemist



Authorized Signatory (Q.C.)