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# SPAN FORGING PVT. LTD.

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

Works : Village Tatarpur (Near Prithla) Teh. &amp; 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.

117

D..O.T.

11/5/2012

D..O.R

9/5/2012

Sample Description

RX-46

Sample No.

7374

Heat No.

R-662

## RESULTS

### Chemical Analysis

By Spectrometer

Element	%
Carbon	0.0573
Silicon	0.632
Sulphur	0.0055
Phosphorus	0.0204
Manganese	1.6
Nickel	10.1
Chromium	16.89
Molybdenum	2.13
Vanadium	0.0736
Copper	0.361
Niobium/Columbium	0.0223
Cobalt	0.178
Aluminium	0.0107
Titanium	0.0191
Iron	67.80

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.		T.C.NO : P-70	Date : 2.2.12	ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS ROLLED	56 MM	50 47	BLUE	5315 4965

### CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS	C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.											
	Max.											
Heat No.	Grade											
R-662	AISI-316	.056	1.57	.53	.016	.031	16.77	10.06	2.06	.0645	56 MM	50
R-663	AISI-316	.060	1.49	.57	.016	.032	16.73	10.02	2.05	.0674	56 MM	47

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

Grain Size  
E 112

### IMPACT TESTING :

Test Std :

INCLUSION RATING ASTM E - 45					Sr. No	Impact Energy (J)	Average
A	B	C	D				
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 <sup>st</sup> Step	2 <sup>nd</sup> Step	3 <sup>rd</sup> Step
ACTUAL HRC										

### 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.

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.)