



SPAN FORGING PVT. LTD.

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

Mobile : 9999986702

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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 SARA SAE(P)Ltd.Unit-II
A/2Sara Ind.Estate Ltd.Chak-
rata Road,Selaqui,Dehradun.

Report No.

1154

D..O.T.

6/1/2012

D..O.R

6/1/2012

Sample Description

INGOT

Sample No.

7155

Heat No.

P-59

RESULTS

Chemical Analysis
By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0789
Silicon	0.569
Sulphur	0.0064
Phosphorus	0.0205
Manganese	1.47
Nickel	10.43
Chromium	16.86
Molybdenum	2.09
Vanadium	0.0745
Copper	0.356
Niobium/Columbium	0.0214
Cobalt	0.186
Aluminium	0.0103
Titanium	0.0135
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-46

Date : 1.1.12

ORDER NO : VERBAL

Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS CAST	4X5X44	40 40 40 28	BLUE BLACK WHITE YELLOW	4355 4370 4340 3035

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
P-58	AISI-316	.065	1.52	.52	.015	.033	16.55	10.09	2.04	.0662	BLUE	4X5X44	40
P-59	AISI-316	.071	1.45	.54	.015	.033	16.71	10.08	2.04	.0612	BLACK	4X5X44	40
P-60	AISI-316	.066	1.47	.54	.014	.032	16.71	10.11	2.05	.0658	WHITE	4X5X44	40
P-61	AISI-316	.062	1.46	.54	.014	.033	16.66	10.11	2.05	.0612	YELLOW	4X5X44	28

ULTRASONIC TESTING:
ACC. STD : 6mm FBH

REMARKS : NA

MECHANICAL PROPERTIES : TEST STD ASTM A370

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

METALLURGICAL TEST RESULT

INCLUSION RATING ASTM E - 45

Grain Size
E 112

Test Temp :

IMPACT TESTING :

Test Std :

Sr. No

Impact Energy (J)

Average

	A	B	C	D			
Thin	-	-	-	-	1	-	-
Thick	-	-	-	-	2	-	-
					3	-	-

JOMINY HARDENABILITY : ASTM - 3848

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

- 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 Least out 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

[Signature]



JAN 2012

निवेदित
अतिरिक्त कमिशनर-वाणिज्य
अतिरिक्त कर अधिकार