



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

Date.....

Ref. No.

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

Report No.

1146

D..O.T.

2/1/2012

D..O.R

2/1/2012

Sample Description

ING.4"X5"

Sample No.

7125

Heat No.

P-89

RESULTS

Chemical Analysis
By Spectrometer

Element	%
Carbon	0.0701
Silicon	0.486
Sulphur	0.0083
Phosphorus	0.029
Manganese	1.46
Nickel	10.17
Chromium	17.07
Molybdenum	2.1
Vanadium	0.0719
Copper	0.38
Niobium/Columbium	0.0149
Cobalt	0.238
Aluminium	0.0109
Titanium	0.0231
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 with in 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-42	Date :27.12.11	B/PAR0132/L1 dt 21.12.11 ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)
AISI-316	INDUCTION FURNACE	AS CAST	4X5X44	45	BLUE+BROWN	4955
				45	BLUE+WHITE+RED	4925
				46	BLUE+WHITE+GREEN	5050

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
P-89	AISI-316	.057	1.48	.55	.019	.035	16.56	10.07	2.09	.0792	BLUE+BROWN	4X5X44	45
P-91	AISI-316	.050	1.40	.54	.017	.034	16.84	10.04	2.05	.0660	B+W+R	4X5X44	45
P-98	AISI-316	.060	1.49	.58	.018	.034	16.79	10.08	2.04	.0815	B+W+G	4X5X44	

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

Grain Size
E 112

Test Temp :

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	Macro Test (ASTM E - 381)	1 st Step	2 nd Step	3 rd 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.

For Parvati Ltd.

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

Chemist

Authorized Signatory (Q.C.)

[Signature]

