



SPAN FORGING PVT. LTD.

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

Mobile : 9999986702

9999986704

9810010535

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. 1212	D.O.T. 28/2/2012
Sample Description INGOT 4"X5"	Sample No. 7365	D.O.R 28/2/2012
		Heat No. P-02

RESULTS

Chemical Analysis
By Spectrometer

Element	%
Carbon	0.0598
Silicon	0.585
Sulphur	0.0108
Phosphorus	0.0281
Manganese	1.47
Nickel	10.13
Chromium	16.76
Molybdenum	2.12
Vanadium	0.0741
Copper	0.363
Niobium/Columbium	0.0122
Cobalt	0.19
Aluminium	0.0164
Titanium	0.0211
Iron	68.10

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-65	Date :21.2.12	ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)	
AISI-316	INDUCTION FURNACE	AS CAST	4X5X44	50 50 50 36	BLUE+BLACK BLUE+RED BLUE+YELLOW BLUE+GREEN	5550 5555 5500 3950	

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
P-2	AISI-316	.056	1.49	.58	.015	.032	16.81	10.07	2.05	.0615	BLUE+BLACK	4X5X44	50
P-3	AISI-316	.046	1.45	.54	.015	.032	16.77	10.09	2.03	.0594	BLUE+RED	4X5X44	50
P-4	AISI-316	.056	1.50	.58	.013	.030	16.69	10.10	2.06	.0545	BLUE+YELLOW	4X5X44	50
P-5	AISI-316	.059	1.50	.59	.015	.031	16.75	10.15	2.06	.0590	BLUE+GREEN	4X5X44	36

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				Grain Size E 112	IMPACT TESTING :			Average
	A	B	C	D		Test Temp :	Test Std :	Sr. No	
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 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 Lead not added during manufacturing.

For Parvati P. Ltd.

Chemist

For Parvati P. Ltd.

Authorized Signatory (Q.C.)

