Mobile : 9999986702
9999986704
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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. & Distt. Palwal
E-mail : spanforging@rediffmail.com

Ref. No. .....

TEST REPORT

Date.....

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

Report No.	D..O.T.	
1152	6/1/2012	
	D..O.R	
	6/1/2012	
Sample No.	Heat No.	
7153	P-60	

Sample Description: INGOT

RESULTS

Chemical Analysis By Spectormetor

Element	%
Carbon	0.0698
Silicon	0.512
Sulphur	0.0081
Phosphorus	0.0221
Manganese	1.51
Nickel	10.21
Chromium	16.68
Molybdenum	2.08
Vanadium	0.0744
Copper	0.374
Niobium/Columbium	0.0202
Cobalt	0.184
Aluminium	0.0095
Titanium	0.0115
Iron	68.20

SPAN FORGING PVT. LTD. Authorised Signatory

Checked By
Arun Mishra

Authorised Signatory
(Q.M / T.M)

1. The result lisited refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
2. Total Liablity 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 Udyaog Nagar, G. T. Karnal Road,
NEW DELHI - 33, Phone : 91 - 11 - 47029900 Fax : 91 - 11 - 47029922

TEST CERTIFICATE

Customer Name & Destination :	T.C.NO.:	Date :	
M/S. SARA SAE PVT. LTD.	P-46	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

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

METALLURGICAL TEST RESULT

INCLUTION RATING ASTM E - 45

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

Grain Size E 112

IMPACT TESTING :

Test Temp : Test Std :

Sr. No	Impact Energy (J)	Average
1	-	
2	-	
3	-	

JOMINY HARDENABILITY : ASTM - 3848

DIST mm/Inch	1	3	5	7	9	11	Marco Test (ASTM E – 381)
ACTUAL HRC							

MACROSTREAK FLAW TEST (IS - 4078)

1st Step	2nd Step	3rd Step

Visual Inspection :

12 JAN 2012

Remarks
1. Impact Testing as per DINEN 10045 - 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

PARVATI PVT. LIMITED * DELHI *