



SPAN FORGING PVT. LTD.

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

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Works : Village Tatarpur (Near Prithla) Teh. & Distt. Palwal

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TEST REPORT

Date.....

Ref. No.

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

Report No.

1064

D..O.T.

16/12/2011

D..O.R

16/12/2011

Sample No.

7037

Heat No.

P-6

Sample Description

RCS 4"X4"

RESULTS

Chemical Analysis
By Spectrometer

Element	%
Carbon	0.0617
Silicon	0.511
Sulphur	0.0099
Phosphorus	0.0293
Manganese	1.45
Nickel	10.27
Chromium	17.05
Molybdenum	2.12
Vanadium	0.0556
Copper	0.409
Niobium/Columbium	0.0104
Cobalt	0.205
Aluminium	0.0108
Titanium	0.0141
Iron	67.70

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 Engineering Nagar, G. T. Karnal Road,
NEW DELHI - 23, Phone : 91 - 11 - 47029900 Fax : 91 - 11 - 47029922

TEST CERTIFICATE

Customer Name & Destination : M/S. SARA SAE PVT. LTD.			T.C NO. : P-68	Date : 23.2.17		ORDER NO. : VERBAL	
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Color Code	Weight (Kg)	
AISI-316	INDUCTION FURNACE	AS CAST	4X5X44 4X5X44	60 33	BLUE+BROWN BLUE+WHITE		

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS	C	Mn	Si	S	P	Cr	Ni	Mo	N	Co	OR	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
P-6	AISI-316	.050	1.65	.53	.013	.032	16.87	10.12	2.04	.0655		4X5X44	60
P-7	AISI-316	.054	1.61	.54	.015	.033	16.87	10.19	2.06	.0647		4X5X44	33

ULTRASONIC TESTING ACC. STD : 6mm FBH	REMARKS : NA
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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 : Test Std :		Average
	A	B	C	D		Sr. No	Impact Energy (J)	
Thin	-	-	-	-		1	-	
						2	-	
Thick	-	-	-	-		3	-	

JOMINY HARDENABILITY : ASTM - 3848

							MACROSTREAK FLAW TEST (IS - 4075)		
DIST mm/inch	1	2	3	4	5	6	1 st Step	2 nd Step	1 st Step
ACTUAL HRC									

Visual Inspection :

Remarks	1 Impact Testing as per DIN EN 10015 - 1
	2 Ultrasonic testing as per ASTM A 588
	3 Material is free from residual radioactive elements.
	4 Lead not added during manufacturing.

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

For Parvati P. Ltd.

[Signature]
Chemist

For Parvati P. Ltd.



Authorized Signatory (Q.C.)