

**BSL****SPECTRO LAB****&  
METALLURGICAL TESTING CENTRE**

( A Unit of BSL Castings Pvt. Ltd. )

( NABL ACCREDITED LAB )

**TEST REPORT**CERTIFICATE NO.  
T - 1452 & T - 1453**WORKS & OFFICE :**PLOT NO. 263, SECTOR-24,  
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BSL/SPECTRO/5.10F-01/01/00

Issued to :	M/s. Sara Sae (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	6918	D.O.T. :	18.07.2013
		Ref. No.	Nil	D.O.R. :	16.07.2013
Sample Description. :	Sample No. - 8555, Heat No. - PA-217, Ingot 4"X5"			J.O. No. :	1801

**RESULTS**

**Chemical Analysis** (Fe Base - SS)  
Protocol : ASTM E 1086:2008 (By O.E.S)

Sample ID; J.O.No. - 1801/1

<u>Element</u>	<u>%</u>
Carbon	0.047
Silicon	0.547
Sulphur	0.018
Phosphorus	0.033
Manganese	1.762
Nickel	10.10
Chromium	16.31
Molybdenum	2.126
Copper	0.389
Tungsten	0.062
Cobalt	0.186
# Niobium	0.040
# Titanium	0.013

Checked By

Authorised Signatory  
( Q.M. / T.M. )

**Note :**

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. \*Not Covered under NABL Scope.
4. This report can not be used as an evidence in a court of law.
5. Samples will be destroyed after 15 days.
6. Any Complaints about this report should be communicated within 7 days of issue of this report.
7. This report shall not be reproduced except in full, without the written permission of the Laboratory.
8. # Results found outside the range of NABL accredited scope.

## TEST CERTIFICATE

TC No.: P-160

Date : 9.7.13

INVOICE NO: 145

Customer Name &amp; Address :

M/S SARA SAE P.LTD  
DEHRADUN

Supply Condition :

AS CAST

## CHEMICAL ANALYSIS IN PERCENTAGE

H.NO	Grade	C	Si	Mn	P	S	Cr	Mo	Ni	N	Size	Pc	Weight	Colour Code
PA-217	AISI-316	.053	.57	1.51	.035	.010	17.09	2.02	10.13	.0542	4X5X44	50	5480	BLUE+BLK
PA-218	AISI-316	.066	.52	1.60	.033	.012	17.08	2.00	10.14	.0590	4X5X44	50	5475	BLUE+WHITE
PA-219	AISI-316	.063	.64	1.55	.033	.015	17.04	2.08	10.05	.0579	4X5X44	50	5460	YELLOW+WHITE
PA-220	AISI-316	.067	.54	1.51	.031	.013	16.77	2.08	10.08	.0566	4X5X44	35	3780	RED+BLACK

UT TESTINGS FOUND ACCEPTABLE.

Manufacturing Route: Electric Induction Furnace

Ultrasonic testing as per ASTM A 388

Material is free from residual radioactive elements.

Lead not added during manufacturing.

We are Confirming that the Test Certificate findings are Correct &amp; Results are as per Standard / Customer's Requirements.




PARVATI PVT. LIMITED  
\* DELHI \*

Lab Incharge

Quality Controller