

BSL**SPECTRO LAB**

CERTIFICATE NO.
T - 1452 & T - 1453

METALLURGICAL TESTING CENTRE

(A Unit of BSL Castings Pvt. Ltd.)
(NABL ACCREDITED LAB)

TEST REPORT

WORKS & OFFICE :

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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.	6353	D.O.T. :	09.07.2013
		Ref. No.	Nil	D.O.R. :	08.07.2013
Sample Description. :	Sample No. - 8545, Heat No. - PA-216, Ingot 4"X5"			J.O. No. :	1656

RESULTS

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

Sample ID; J.O.No. - 1656/4

<u>Element</u>	<u>%</u>
Carbon	0.067
Silicon	0.503
Sulphur	0.013
Phosphorus	0.031
Manganese	1.458
Nickel	10.14
Chromium	16.69
Molybdenum	2.071
Copper	0.384
Tungsten	0.064
Cobalt	0.229
# Niobium	0.035
# Titanium	0.010

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.



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TEST CERTIFICATE

TC No.: P-159

Date : 1.7.13

INVOICE NO: 135

Customer Name & 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-213	AISI-316	.057	.58	1.58	.032	.012	16.79	2.07	10.18	.0574	4X5X44	50	5460	BLUE
PA-214	AISI-316	.064	.56	1.64	.032	.011	16.99	2.06	10.06	.0560	4X5X44	50	5485	BLUE+GREEN
PA-215	AISI-316	.051	.52	1.48	.034	.010	16.85	2.03	10.12	.0591	4X5X44	50	5470	BLUE+YELLOW
PA-216	AISI-316	.048	.53	1.56	.034	.009	16.86	2.04	10.13	.0570	4X5X44	35	3815	BLUE+RED

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 & Results are as per Standard / Customer's Requirements.

Lab Incharge



Quality Controller