

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 :

PLOT NO. 203, SECTOR-24,
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BSL/SPECTRO/5.10F-01/01/00

Issued to : M/s. Sora Saa (P) Ltd. Report No. 15454 D.O.T. : 16.12.2013
7/1, Pritam Road, Unit - II Ref. No. Nil D.O.R. : 14.12.2013
Dehra Dun - 248001 Sample Description : Sample No. - 9007, Heat No. - D-3597 J.O. No. : 4278

RESULTS

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

Sample ID; J.O.No. -4278/1

<u>Element</u>	<u>%</u>
Carbon	0.041
Silicon	0.612
Sulphur	0.013
Phosphorus	0.030
Manganese	1.082
Nickel	10.25
Chromium	16.95
Molybdenum	2.185
Copper	0.394
Tungsten	0.102
Cobalt	0.362
# Niobium	0.032
Titanium	0.027

[Signature]
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.



MATERIAL TEST CERTIFICATE

(As per Indian Boiler Regulation 169)

CERTIFICATE NO.:	KSL-4908/13-14	CUSTOMER:	M/S SARA SAE PVT LTD
DATE:	27.10.2013		JALANDHAR, PUNJAB
HEAT NO.:	D 3697		
SPECIFICATION:	AISI 316	P.O NO. & DATE:	4876 DTD 14 OCT 2013
INVOICE NO. & DATE:	388 DT:- 27.10.2013		

SL. NO.	ITEM DESCRIPTION	QTY.
1	Round Dia 70 MM Grade Color Code: Pink	13

CHEMICAL COMPOSITION

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.08	0.067
Mn		2.00	1.41
Si		1.00	0.46
P		0.045	0.037
S		0.030	0.024
Cr	16.00	18.000	16.21
Ni	10.00	14.00	10.14
Mo	2.00	3.00	2.09
V			0.02
Ti			0.011
Cu			0.30
Al			0.016
Nb			

Remarks:

- 1) Steel melting process: Electric furnace-Argon purged ladle bottom poured "under inert atmosphere"
- 2) Steel is fully killed with Al/Si alloys and is made to fine grain practice.
- 3) Surface quality of ingot is acceptable and free from harmful defect.
- 4) No mercury / Lead added during steel melting process.

We have satisfied ourselves that steel melting has been done and tested in accordance with the requirement of Indian Boiler Regulation, 1950. We further certify that the particulars entered herein are correct

Approval Certificate No-130, dt 4th June, 2012 as "Well-Known Steel Maker"

Valid up to 1st March 2017


Authorized Signatory

OK
SS316

