

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. 263, SECTOR-24,
FARIDABAD - 121 005 (INDIA)
Ph. No. : 0129-4189800
FAX No. : +91-129-4065535
E.mail : castings@bsltd.net

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. 9001

Ref. No. Nil

Sample Description. : Sample No. - 8613, Heat No. - D-3257, Dia - 40.0mm

D.O.T. : 23.08.2013

D.O.R. : 21.08.2013

J.O. No. : 2411

RESULTS

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

Sample ID; J.O.No. - 2411/1

<u>Element</u>	<u>%</u>
Carbon	0.051
Silicon	0.512
Sulphur	0.016
Phosphorus	0.035
Manganese	1.098
Nickel	10.09
Chromium	16.84
Molybdenum	2.153
Copper	0.385
Tungsten	0.050
Cobalt	0.182
# Niobium	0.033
# Titanium	0.011

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-4653/13-14	CUSTOMER: M/S SARA SEA PRIVATE LIMITED JALANDHAR (PUNJAB)
DATE:	05.08.2013	
HEAT NO.:	D 3257	
SPECIFICATION:	AISI 316	P.O NO. & DATE: 4413 DT 03.08.13
INVOICE NO. & DATE:	188 Dt 05.08.2013	

SL. NO.	ITEM DESCRIPTION	QTY.
1	Round Dia 40 MM	100
	Grade Color Code: Pink	

CHEMICAL COMPOSITION

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.08	0.06
Mn		2.00	1.10
Si		1.00	0.61
P		0.045	0.040
S		0.030	0.016
Cr	16.00	18.00	16.50
Ni	10.00	14.00	10.20
Mo	2.00	3.00	2.2
V			0.04
Ti			0.01
Cu			0.40
Al			0.013

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

**Registered Office :**

G & JU - 26/1, Pitampura,
Delhi - 110088 (INDIA)

Telefax : + (91) 11 27343847
Support : + (91) 0810112022

Works :

A - 350, Phase-I, Riico Industrial Area,
Bhiwadi - 301019, Rajasthan (INDIA)

Phone : + (91) 1493 220142
Fax : + (91) 1493 220562

WEB : WWW.KSL.IN
E-MAIL : INFO@KSL.IN