

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-121005 (INDIA)

Fax No. : +91-129-4065535

Ph. No. : 4065531, 4065532

E-mail : castings@bsltd.net

BSL/SPECTRO/5.10F-01/01/00

Order to: M/s. Nov Sara India (P) Ltd. Report No. 146105 D.O.T. : 23.06.2010
7/1, Pritam Road, Unit - II, Ref. No. Nil D.O.R. : 23.06.2010
Dehra Dun - 248001 J.O. No. : 45170

Sample Description: Sample No. - 4915, Heat No. - D-0224, Dia - 56mm

RESULTS

Chemical Analysis

Sample ID: J.O.No. - 45170/5

By Spectrometer (ASTM E1507:1998)

<u>Element</u>	<u>%</u>
Carbon	0.068
Silicon	0.374
Sulphur	0.028
Phosphorus	0.035
Manganese	1.071
Nickel	10.23
Chromium	16.53
Molybdenum	2.032
Vanadium	0.055
Copper	0.459
Tungsten	<0.02
Cobalt	0.197
Aluminium	<0.01
Magnesium	<0.01
Titanium	<0.02
Iron	68.90

Checked By



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. *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.



MATERIAL TEST CERTIFICATE

TC NO-KSL-1196 /10-11	Date : 14.06.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D -0224		DEHRADUN
Specification:- SS 316	P.O. NO.: B / KES / 257 / 10	Dtd.:- 03.05.2010

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	SS 316 ROUND DIA 56MM FB 765	35

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER Min. (%)						16.00	10.00	2.00				
SPEC. Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value	0.064	1.26	0.56	0.031	0.019	16.56	10.21	2.18				

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm2	U.T.S. N/mm2	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER Min.							
SPEC. Max.							
Actual Value							

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

REMARK

Sign of the Inspecting Officer

G & JU - 26/1, Pitampura, Delhi - 110088 (INDIA)
Telefax : + (91) 11 27343847
Support : + (91) 9810112977

Works :

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

Sign of the Chief of Quality Control

Phone : + (91) 1493 220142
Fax : + (91) 1493 220562
WEB : WWW.KSL.IN
E-MAIL : INFO@KSL.IN