

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORTCERTIFICATE NO.
T - 1452 & T - 1453

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. 7/1, Pritam Road, Unit - II, Dehra Dun - 248001	Report No.	146103	D.O.T. :	23.06.2010
		Ref. No.	Nil	D.O.R. :	23.06.2010
Sample Description	Sample No. - 4913, Heat No. - D-0227, Dia - 56mm			J.O. No. :	45170

RESULTS**Chemical Analysis**

Sample ID: J.O.No. - 45170/3

By Spectrometer (ASTM E1507:1998)

Element	%
Carbon	0.062
Silicon	0.461
Sulphur	0.015
Phosphorus	0.026
Manganese	1.162
Nickel	10.15
Chromium	16.26
Molybdenum	2.015
Vanadium	0.055
Copper	0.355
Tungsten	<0.02
Cobalt	0.183
Aluminium	0.012
Magnesium	<0.01
Titanium	<0.02
Iron	69.22

Checked By

Authorized Signatory
(C.M. / T.M.)

- Notes:
- The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.
 - Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
 - *Not Covered under NABL Scope.
 - This report can not be used as an evidence in a court of law.
 - Samples will be destroyed after 15 days.
 - Any Complaints about this report should be communicated within 7 days of issue of this report.
 - This report shall not be reproduced except in full, without the written permission of the Laboratory.



MATERIAL TEST CERTIFICATE

TC NO-KSL-1198 /10-11	Date : 14.06.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D -0227		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	40
	FB 765	

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	0.070	1.37	0.62	0.030	0.021	16.31	10.26	2.19					

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

Signature of 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)

Signature of Chief of Quality Control

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