

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

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CERTIFICATE NO.
T - 1452 & T- 1453

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

Client to :	M/s. Nov Sara India (P) Ltd. 7/1, Pritam Road, Unit - II, Dehra Dun - 248001	Report No.	146101	D.O.T. :	23.06.2010
Sample Description	Sample No. - 4911, Heat No. - D-0231, Dia - 40mm	Ref. No.	Nil	D.O.R. :	23.06.2010
				J.O. No. :	45170 .

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 45170/1

By Spectrometer (ASTM E1507;1998)

<u>Element</u>	<u>%</u>
Carbon	0.065
Silicon	0.358
Sulphur	0.028
Phosphorus	0.038
Manganese	1.031
Nickel	10.10
Chromium	16.63
Molybdenum	2.012
Vanadium	0.054
Copper	0.461
Tungsten	<0.02
Cobalt	0.198
Aluminium	<0.01
Magnesium	<0.01
Titanium	<0.02
Iron	69.01

Checked By

263,
SECTOR-24,
FARIDABAD

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-1199 /10-11	Date : 14.06.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D -0231		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 40MM FB 541	75

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER SPEC.	Min. (%)					16.00	10.00	2.00				
	Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00			
	Actual Value	0.072	1.40	0.50	0.034	0.023	16.52	10.17	2.16			

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm ²	U.T.S. N/mm ²	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC.	Min.						
	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

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Sign of the Chief of Quality Control

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