

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

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

ed to :	M/s. Nov Sara India (P) Ltd.	Report No.	146104	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. - 4914, Heat No. - D-0226, Dia - 56mm				

RESULTS

Chemical Analysis

Sample ID: J.O.No. - 45170/4

By Spectrometer (ASTM E1507:1998)

<u>Element</u>	<u>%</u>
Carbon	0.066
Silicon	0.472
Sulphur	0.020
Phosphorus	0.026
Manganese	1.229
Nickel	10.10
Chromium	16.26
Molybdenum	2.023
Vanadium	0.054
Copper	0.382
Tungsten	0.053
Cobalt	0.178
Aluminium	0.012
Magnesium	<0.01
Titanium	<0.02
Iron	69.10

Checked By

Authorized 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-1197 /10-11	Date : 14.06.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D -0226		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	30
	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	0.059	1.32	0.50	0.027	0.017	16.77	10.19	2.16					

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 Testing Officer

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Sign of the Chief of Quality Control

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