

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

WORKS & OFFICE :

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CERTIFICATE NO.
1452 & T- 1453**TEST REPORT**

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

Client : M/s. Nov Sara India (P) Ltd.	Report No. 142426	D.O.T. : 03.05.2010
7/1, Pritam Road, Unit - I,	Ref. No. Nil	D.O.R. : 03.05.2010
Dehra Dun - 248001		J.O. No. : 43938
Sample Description : Sample No. - 4704, Heat No. - D-0104, Dia - 40mm		

RESULTS**Chemical Analysis**

Sample ID: J.O.No. - 43938/2

By Spectrometer (ASTM E1507:1998)

<u>Element</u>	<u>%</u>
Carbon	0.065
Silicon	0.382
Sulphur	0.023
Phosphorus	0.038
Manganese	1.126
Nickel	10.24
Chromium	16.85
Molybdenum	2.036
Vanadium	<0.04
Copper	0.521
Tungsten	<0.02
Cobalt	0.265
Aluminium	0.027
Magnesium	0.002
Titanium	0.126
Iron	68.25

Checked By

Authorised Signatory
(Q.M. / T.M.)

- Notes :
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-1084 / 10-11	Date: 27.04.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D - 0104		DEHRADUN
Specification:- AISI 316	P.O. NO.: B / KES0215 / 09	Dtd.:- 06.10.2009

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	AISI 316 ROUND DIA 40 {FB 541}	76

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	0.067	1.23	0.52	0.031	0.024	16.74	10.16	2.09				

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 %	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

The Steel has been made by Electric Furnace, and is fully killed / killing has been done by Al & Si it has fine grain structure.

Sign of the Inspecting Officer

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

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

Sign of the Chief of Quality Control

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