

**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 & 1453**TEST REPORT**

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

Order to: M/s. Nov Sara India (P) Ltd. Report No. 142427 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. - 4705, Heat No. - D-0107, Dia - 56mm

RESULTS**Chemical Analysis**

Sample ID. J.O.No - 43938/3

By Spectrometer (ASTM E1507:1998)

Element	%
Carbon	0.063
Silicon	0.436
Sulphur	0.026
Phosphorus	0.040
Manganese	1.052
Nickel	10.12
Chromium	16.67
Molybdenum	2.054
Vanadium	<0.04
Copper	0.514
Tungsten	<0.02
Cobalt	0.185
Aluminium	0.021
Magnesium	0.002
Titanium	0.143
Iron	68.62

Checked By

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

- 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-1085 / 10-11	Date: 27.04.2010	Customer: M/S NOV SARA INDIA PVT LTD
Heat No. D - 0107		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 56 (FB 765)	15

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	1.31	0.54	0.029	0.023	17.04	10.06	2.10				

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

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

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Sign of the Chief of Quality Control

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