

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 :

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

Issued to :	M/s. Nov Sara India (P) Ltd. 7/1, Pritam Road, Unit - I, Dehra Dun - 248001	Report No.	163488	D.O.T. :	24.02.2011
		Ref. No.	Nil	D.O.R. :	22.02.2011
Sample Description	Sample No. - 5699, Heat No. - D-0791			J.O. No. :	49509

RESULTS

Chemical Analysis (Fe Base - LAS)
Protocol : ASTM E 1507 (By O.E.S)

Sample ID; J.O.No. - 49509

<u>Element</u>	<u>%</u>
Carbon	0.075
Silicon	0.612
Sulphur	0.016
Phosphorus	0.039
Manganese	0.852
Nickel	10.68
Chromium	17.80
Molybdenum	2.051
Vanadium	<0.04
Copper	0.053
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.025
Magnesium	<0.01
Titanium	<0.02
Iron	67.78

Checked By



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

- Note:
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.



MATERIAL TEST CERTIFICATE

TC NO-KSL-1822/10-11	Date : 17.01.2011	Customer : M/S NOV SARA INDIA (P) LTD
Heat No. D -0791		DEHRADUN
Specification:- AISI 316	P.O. No.: B/KES0009/10 Dated 27.12.2010	Invoice No: 570 Dt.17.01.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Round Dia 40 MM	75
	Heat Colour Code: White	

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	0.068	1.26	0.51	0.034	0.022	16.31	10.14	2.21				

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 which is fully killed 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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