

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

(An Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

FARIDABAD-121005 (INDIA)

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CERTIFICATE NO.
T - 1452 & T - 1453

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

Issued to : M/s. Nov Sara India (P) Ltd.
7/1, Pritam Road, Unit - II
Dehra Dun - 248001

Report No. 107366

D.O.T. : 16.10.2008

Ref. No. Nil

D.O.R. : 14.10.2008

Sample Description Sample No - 1945A, Heat No. - 625, Dia - 40mm

J.O. No. : 33220

RESULTS**Chemical Analysis**

By Spectrometer (ASTM E1507;1998)

Sample ID; J.O.No. - 33220/3

<u>Element</u>	<u>%</u>
Carbon	0.074
Silicon	0.491
Sulphur	0.019
Phosphorus	0.030
Manganese	1.199
Nickel	10.11
Chromium	17.37
Molybdenum	2.016
Vanadium	0.052
Copper	0.426
Tungsten	0.047
Cobalt	0.002
Aluminium	0.006
Titanium	0.010
Iron	68.14

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. This report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.



Kesri Steels Limited

ISO 9001 & 14001 CERTIFIED



MATERIAL TEST CERTIFICATE

TC NO. :- KSL-374/07-08	Date : 13/3/2008	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. A-825	Pouring dt. :-	DEHRADUN
Specification :- S.S 316	P.O. NO. :- B/KES/1808/07	Dtd. :- 11/2/2008

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	S.S 316 DIA 40 MM	23
2	FB 765	
3		
4		
5		

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	V	Ti	Al	Cu
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	0.070	1.34	0.47	0.020	0.017	17.30	10.02	2.07				

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	IMPACT (Joules)
AS PER SPEC. Min.							
Max.							
Actual Value							

Whereby 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

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Sign of the Inspecting Officer


Sign of the Chief Quality Control