

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

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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 - I,
Dehra Dun - 248001

Report No. 142061

Ref. No. Nil

Sample Description Sample No. - 4690, Heat No. - 951A

D.O.T. : 29.04.2010

D.O.R. : 28.04.2010

J.O. No. : 43844

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 43844/19

By Spectrometer (ASTM E1507;1998)

<u>Element</u>	<u>%</u>
Carbon	0.093
Silicon	0.146
Sulphur	0.027
Phosphorus	0.016
Manganese	0.471
Nickel	<0.05
Chromium	<0.05
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.024
Tungsten	<0.02
Cobalt	<0.03
Aluminium	<0.01
Magnesium	<0.01
Titanium	<0.02
Iron	99.16


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.
 7. This report shall not be reproduced except in full, without the written permission of the Laboratory.



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.

E-mail : info@sharusteels.com

E-mail : sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

F-QCD-03



Customer
Address

NOV SARA INDIA PRIVATE LIMITED
DEHRADUN UTTARAKHAND

Date

19-06-2010

TEST RESULTS

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0801/06-2010

SAE 1008

50X50 MM

2

S 951

YELLOW

A. CHEMICAL ANALYSIS :

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu.	Ti	B
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Spec : Low-
High

Obtained

0.10 0.50 0.032 0.033 0.18

0.030

B. METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :

(In accordance with IS : 4163)

A

Thin Thick

B

Thin Thick

C

Thin Thick

D

Thin Thick

1.5

1.0

1.5

1.5

Grain Size

:

High

Low

(In accordance With IS : 4748)

6

C. MACRO RESULTS :

(In accordance With ASTM E-381)

OK

D. JOMINY HARDENABILITY : (In accordance with IS : 3848)

E. OTHER SPECIAL TESTS :

F. MECHANICAL PROPERTIES :

Tensile Strength

Yield Strength

% Elongation

% Area Reduction Impact Horizontal/
Vertical

Hardness High/
Low

REMARKS :

7735