

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

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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

Sample Description Sample No. - 4691, Heat No. - 958A

Report No. 142064

D.O.T. : 29.04.2010

Ref. No. Nil

D.O.R. : 28.04.2010

J.O. No. : 43844

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 43844/22

By Spectrometer (ASTM E1507;1998)

<u>Element</u>	<u>%</u>
Carbon	0.094
Silicon	0.136
Sulphur	0.018
Phosphorus	0.022
Manganese	0.492
Nickel	<0.05
Chromium	<0.05
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.029
Tungsten	<0.02
Cobalt	<0.03
Aluminium	<0.01
Magnesium	<0.01
Titanium	<0.02
Iron	99.14

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. *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



ISO 9001:2008
ISO 14001:2004

Customer
Address

NOV SARA INDIA PRIVATE LIMITED
DEHRADUN UTTARAKHAND

Date

13-07-2010

TEST RESULTS

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0987/07-2010

SAE 1008

25X40 MM

1

S 958

YELLOW

A. CHEMICAL ANALYSIS :

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

0.09 0.40 0.030 0.036 0.15 0.019

Obtained

METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :

(In accordance with IS : 4163)

A

Thin Thick

B

Thin Thick

C

Thin Thick

D

Thin Thick

2.0

1.5

1.0

2.0

Grain Size

:

High

Low

(In accordance With IS : 4748)

7

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

6820 MT

REMARKS :