

BSL**SPECTRO LAB**

CERTIFICATE NO.
- 1452 & T- 1453

METALLURGICAL TESTING CENTRE

(A 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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Ph. No. : 4065531, 4065532

E-mail : castings@bsltd.net

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

ed to :

M/s. Nov Sara India (P) Ltd.

Report No.

149820

D.O.T. :

16.08.2010

7/1, Pritam Road, Unit - II,

Ref. No.

Nil

D.O.R. :

14.08.2010

Dehra Dun - 248001

Sample Description

Sample No. - 5102, Heat No. - S-468 A

J.O. No. :

46123

RESULTS

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

Sample ID; J.O.No. - 46123/1

<u>Element</u>	<u>%</u>
Carbon	0.073
Silicon	0.119
Sulphur	0.018
Phosphorus	0.038
Manganese	0.432
Nickel	<0.05
Chromium	0.055
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.072
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.024
Titanium	<0.02
Iron	99.09

Checked By



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

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 SAFA INDIA PRIVATE LIMITED
DEHRADUN UTTARAKHAND

Date: 27-08-2010

TEST RESULTS

CERTIFICATE NO. :
GRADE :
SIZE :
SAMPLE NO. :
HEAT NO. :
COLOUR CODE :
QTY/NO. OF BARS
MULTIPLE/FIX LENGTH

1430/08-2010
SAE 1008
65 MM
1
S 468
ORANGE

A. CHEMICAL ANALYSIS :

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

Obtained 0.08 0.45 0.030 0.036 0.23 0.026

B. METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :
(In accordance with IS : 4163)

A	B	C	D
Thin Thick	Thin Thick	Thin Thick	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
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6825 MT

REMARKS :

For any Quality related issue please contact
Mr. Karanpal Singh (Technical Director)
Mobile : 98141-31288
Mr. J. P. Singh (Manager Q/C & Mkt.)
Mobile : 98550-32559

CHECKED BY

Approved By :

AUTHORISED SIGNATORY
