

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

(An Unit of BSL Castings Pvt. Ltd.)

WORKS & OFFICE

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TEST REPORT**BSL/SPECTRO/5.10F-01/01/00**

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

Report No. 101973 D.O.T. : 04.07.2008

Ref. No. Nil D.O.R. : 02.07.2008

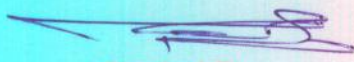
Sample Description Sample No. - 1523B, Heat No. - S-384, Sharu Steel J.O. No. : 31664

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 31664/56

By Spectrometer (ASTM E1507;2003)

<u>Element</u>	<u>%</u>
Carbon	0.095
Silicon	0.184
Sulphur	0.030
Phosphorus	0.035
Manganese	0.425
Nickel	0.016
Chromium	0.091
Molybdenum	0.003
Vanadium	0.005
Copper	0.032
Tungsten	0.002
Cobalt	0.004
Aluminium	0.005
Titanium	0.002
Iron	99.06


Checked By


Authorized 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. 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.

SHARU

SHARU STEELS (P) LTD.

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

E-mail : sharusteels@connect2.dsl.net

AN ISO - 9001 : 2000 CERTIFIED COMPANY

QUALITY ASSURANCE DEPARTMENT

METALLURGICAL TEST REPORT

F-QCD-03



JAS-ANZ

ISO-9001 : 2000
REG. NO. : R91/1413Customer
AddressNOV SARA INDIA PRIVATE LIMITED,
DEHRADUN UTTARAKHAND

Date

07-09-2008

TEST RESULTS

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0669/09-2008

SAE-1008-

25X35 SQ.

1

S 384

YELLOW

A. CHEMICAL ANALYSIS :

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

Obtained

0.10 0.35 0.025 0.035 0.14

0.012

METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :

(In accordance with IS : 4163)

A

B

C

D

Thin Thick

Thin Thick

Thin Thick

Thin Thick

2.5

1.5

1.5

2.5

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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6425

REMARKS :

FL-1233 MWT.