

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

(An 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.	104954	04.09.2008
	7/1, Pritam Road, Unit - II, Dehra Dun - 248001	Report No.	D.O.T. :
Sample Description	Sample No. - 1761A, Heat No. - S-755, Sharu Steel	Ref. No.	02.09.2008
		Nil	D.O.R. :
			32584
		J.O. No. :	

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 32584/58

By Spectrometer (ASTM E1507;2003)

<u>Element</u>	<u>%</u>
Carbon	0.098
Silicon	0.193
Sulphur	0.029
Phosphorus	0.037
Manganese	0.474
Nickel	0.044
Chromium	0.067
Molybdenum	0.009
Vanadium	0.002
Copper	0.066
Tungsten	0.008
Cobalt	0.003
Aluminium	0.002
Titanium	0.001
Iron	98.96



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

Checked By

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 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



ISO-9001 : 2000

REG. NO. : R91/1413

Customer Address

NOV SARA INDIA PRIVATE LIMITED
DEHRADUN UTTARAKHAND

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0189/04-2008

SAE 1008

56 MM

7

S 755

RED

Date

19-04-2008

TEST RESULTS

A. CHEMICAL ANALYSIS :

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

0.10	0.42	0.032	0.038	0.15								0.030
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Obtained

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

1.5

2.0

Grain Size

:

High

Low

(In accordance With IS : 4748)

6

C. MACRO RESULTS :

OK

(In accordance With ASTM E-381)

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

3785-

REMARKS :

Handwritten signature and initials.