

BSL

BHUPENDRA STEELS (P) LIMITED
SPECTRO LAB & METALLURGICAL TESTING CENTRE

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TEST REPORT

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

Issued to :	M/s. Nov Sara India (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	91339	D.O.T. :	14.01.2008
Sample Description	S. No-432A, S-134,(Sharu)	Ref. No.	Nil	D.O.R. :	12.01.2008
				J.O. No. :	28272

RESULTS

Chemical Analysis

Sample ID: J.O.No. - 28272/29

By Spectrometer (ASTM E1507;1998)

Element

%

Carbon	0.092 ✓
Silicon	0.179 ✓
Sulphur	0.029 ✓
Phosphorus	0.038 ✓
Manganese	0.441 ✓
Nickel	0.036
Chromium	0.079
Molybdenum	0.014
Vanadium	0.014
Copper	0.048
Tungsten	0.006
Cobalt	0.003
Aluminium	0.038
Titanium	0.009
Iron	98.96

ASTM 1008

OK

[Signature]
 Checked By



Authorised Signatory

- 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. 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

Date

21-01-2008

TEST RESULTS

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0664/01-2008

SAE 1008

68 MM

3

S 134

WHITE

A. CHEMICAL ANALYSIS :

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

Obtained

0.08 0.40 0.030 0.032 0.15

0.030

B. 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

1.5

2.0

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
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REMARKS :