

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

(An Unit of BSL Castings Pvt. Ltd.)

WORKS & OFFICE

PLOT NO. 263, SECTOR-24
FARIDABAD-121005 (INDIA)
Fax No. : +91-129-4065535
Ph. No. : 4065531, 4065532
E-mail : castings@bsltd.net

REGD. OFFICE

F-1098, BASEMENT
CHITRANJAN PARK
NEW DELHI -110019

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.	103306	D.O.T. :	31.07.2008
		Ref. No.	Nil	D.O.R. :	30.07.2008
Sample Description	Sample No. - 1622, Heat No. - 520C, Sharu Steel	J.O. No. :	32077		

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 32077/27

By Spectrometer (ASTM E1507;2003)

<u>Element</u>	<u>%</u>
Carbon	0.075
Silicon	0.079
Sulphur	0.031
Phosphorus	0.035
Manganese	0.455
Nickel	0.082
Chromium	0.050
Molybdenum	0.004
Vanadium	0.009
Copper	0.041
Tungsten	0.002
Cobalt	0.005
Aluminium	0.006
Titanium	0.002
Iron	99.11

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. 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



JAS-ANZ



ISO-9001 : 2000
REG. NO. : R91/1413

Customer
Address

NOV SARA INDIA PRIVATE LIMITED
DEHRADUN UTTRAKHAND

Date

17-08-2008

TEST RESULTS

CERTIFICATE NO. :

GRADE :

SIZE :

SAMPLE NO. :

HEAT NO. :

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

0463/08-2008

SAE1008

40X40 SQ

1

S 520

ORANGE

A. CHEMICAL ANALYSIS :

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu.	Ti	B
Spec : Low-High													
Obtained	0.10	0.38	0.028	0.032	0.16						0.015		

B. METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :	A	B	C	D
(In accordance with IS : 4163)	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)	6/7			

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
5865-M7-					
REMARKS :					