

BSL**SPECTRO LAB**

&

METALLURGICAL TESTING CENTRE

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

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

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

Report No.

164446

D.O.T. : 07.03.2011

7/1, Pritam Road, Unit - II,

Ref. No.

Nil

D.O.R. : 05.03.2011

Dehra Dun - 248001

Sample No. - 5795A, Heat No. - S-122

J.O. No. : 49731

RESULTS**Chemical Analysis** (Fe Base - LAS)

Sample ID: J.O.No. - 49731/166

Protocol : ASTM E 1507 (By O.E.S)

Element**%**

Carbon	0.095 ✓
Silicon	0.156 ✓
Sulphur	0.018 ✓
Phosphorus	0.032 ✓
Manganese	0.406 ✓
Nickel	<0.05
Chromium	0.158
Molybdenum	<0.05
Vanadium	<0.04
Copper	<0.01
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.023
Magnesium	<0.01
Titanium	<0.02
Iron	99.04



Checked By

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

The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.

Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.

*Not Covered under NABL Scope.

This report can not be used as an evidence in a court of law.

Samples will be destroyed after 15 days.

Any Complaints about this report should be communicated within 7 days of issue of this report.

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SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
E-mail : info@sharusteels.com & sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

F-QCD-03



TEST CERTIFICATE

M/S. NOV SARA INDIA PRIVATE LIMITED (UNIT NO.-II)7/1,PRITAM ROAD, DEHRADUN UTTARAKHAND	T.C. No. 0353 Invoice No. 0269 Truck No. MP09HF-8633	Date 28-04-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. OF PCS.
AISI 1008	40X40 RCS	S-122	L/HT	YELLOW	AS ROLLED	6.535	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
M	-														
Max.	-														
Actual	0.09	0.40	0.024	0.027	0.22					0.030					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	7	Gas content (ppm)	
	A		B		C		D		Decarb. (MM)		O ₂	
	T	H	T	H	T	H	T	H			N ₂	
STD MAX												
ACTUAL	2.0		1.0		1.5		1.5		Micro-Structure	OK	H ₂	

MECHANICAL PROPERTIES

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R _s	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqd.							OK	OK	OK
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance											
Regd.											
Actual											

Remarks :