

BSL**SPECTRO LAB**

&

METALLURGICAL TESTING CENTRE

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT

WORKS & OFFICE :

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

CERTIFICATE NO.
T-1452 & T-1453

Issued to :	M/s. Nov Sara India (P) Ltd.	Report No.	164431	D.O.T. :	07.03.2011
	7/1, Pritam Road, Unit - II,	Ref. No.	Nil	D.O.R. :	05.03.2011
	Dehra Dun - 248001			J.O. No. :	49731
Sample Description	Sample No. - 5790A, Heat No. - S-98				

RESULTS

Chemical Analysis (Fe Base - LAS)
Protocol : ASTM E 1507 (By O.E.S)

Sample ID: J.O.No. - 49731/151

Element	%
Carbon	0.090 ✓
Silicon	0.172 ✓
Sulphur	0.021 ✓
Phosphorus	0.035 ✓
Manganese	0.483 ✓
Nickel	<0.05
Chromium	0.059
Molybdenum	<0.05
Vanadium	<0.04
Copper	<0.01
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.030
Magnesium	<0.01
Titanium	<0.02
Iron	99.05

OLC
1008

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.



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



ISO 9001:2008
ISO 14001:2004

TEST CERTIFICATE

M/S. NOV SARA INDIA PRIVATE LIMITED (UNIT NO.-11)7/1, PRIYAM ROAD, DEHRADUN UTTARAKHAND	T.C. No. 0346 Invoice No. Truck No.	Date 27-04-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
AISI1008	34X34 RCS	S-98	L/HT	ORANGE	AS ROLLED		LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.09	0.47	0.028	0.032	0.19					0.022					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A										Aust. Grain Size ASTM No. (E-112)	1	Gas content (ppm)	
A		B		C		D				Decarb. (MM)		O ₂	
T	H	T	H	T	H	T	H					N ₂	
STD										Micro-Structure	OK	H ₂	
MAX													
ACTUAL	2.0		1.0		1.0		1.5						

MECHANICAL PROPERTIES

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance											
Regd.											
Actual											

Remarks :

