

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

FARIDABAD-121005 (INDIA)

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E-mail : castings@bsltd.net

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

CERTIFICATE NO.
- 1452 & T-1453

M/s. Nov Sara India (P) Ltd.
7/1, Pritam Road, Unit - II,
Dehra Dun - 248001

Report No. 164437

Ref. No. Nil

D.O.T. : 07.03.2011

D.O.R. : 05.03.2011

J.O. No. : 49731

Sample Description Sample No. - 5792A, Heat No. - S-112

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

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

Sample ID; J.O.No. - 49731/157

<u>Element</u>	<u>%</u>
Carbon	0.081 ✓
Silicon	0.169 ✓
Sulphur	0.016 ✓
Phosphorus	0.032 ✓
Manganese	0.478 ✓
Nickel	<0.05
Chromium	0.060
Molybdenum	<0.05
Vanadium	<0.04
Copper	<0.01
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.028
Magnesium	<0.01
Titanium	<0.02
Iron	99.07

OK
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



TEST CERTIFICATE

M/S. NOV SARA INDIA PRIVATE LIMITED (UNIT NO.-11)7/1,PRITAM ROAD, DEHRADUN UTTARAKHAND	T.C. No. 0352 Invoice No. 0270 Truck No. MP09HF-8633	Date 28-04-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
ATST1008	40X40 RCS	S-112	L/HT	ORANGE	AS ROLLED	6.475	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.08	0.39	0.026	0.026	0.22					0.029					

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									Micro-Structure	OK	H ₂	
ACTUAL	2.0		1.0		1.0		1.5					

MECHANICAL PROPERTIES

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance															
Reqd.															
Actual															

Remarks :

