

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

ATE NO.
1453M/s. Nov Sara India (P) Ltd.
7/1, Pritam Road, Unit - II,
Dehra Dun - 248001

Report No. 164410

D.O.T. : 07.03.2011

Ref. No. Nil

D.O.R. : 05.03.2011

Sample No. - 5783A, Heat No. - S-71

J.O. No. : 49731

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

Sample ID: J.O.No. - 49731/130

<u>Element</u>	<u>%</u>
Carbon	0.096 ✓
Silicon	0.152 ✓
Sulphur	0.018 ✓
Phosphorus	0.030 ✓
Manganese	0.402 ✓
Nickel	<0.05
Chromium	0.156
Molybdenum	<0.05
Vanadium	<0.04
Copper	<0.01
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.020
Magnesium	<0.01
Titanium	<0.02
Iron	99.06

0.12
1008
Checked ByAuthorised 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

TEST CERTIFICATE

F-QCD-03



M/S. NOV SARA INDIA PRIVATE LIMITED (UNIT NO.-II)7/1,PRITAM ROAD, DEHRADUN UTTARAKHAND	T.C. No. 0177 Invoice No. Truck No.	Date 26-04-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
AISI1008	63 MM	S-71	L/HT	YELLOW	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	0.10	0.41	0.034	0.033	0.15					0.022					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)		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		1.5		1.0					

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :

17 APR 2011
असिस्टेंट कमिश्नर-कमिश्नर का
व्यक्तिगत रूप से अधिकारी