

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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CERTIFICATE NO.

F- 1452 & T- 1453

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

Client to: M/s. Nov Sara India (P) Ltd.
 7/1, Pritam Road, Unit - II,
 Dehra Dun - 248001
Report No. 161444
Ref. No. Nil
Date of Test: 24.01.2011
D.O.T.:
D.O.R.: 22.01.2011
J.O. No.: 48925
Sample Description Sample No. - 5581A, Heat No. - S-738

RESULTS

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

Sample ID; J.O.No. - 48925/40

<u>Element</u>	<u>%</u>
Carbon	0.087
Silicon	0.254
Sulphur	0.013
Phosphorus	0.014
Manganese	0.354
Nickel	<0.05
Chromium	<0.05
Molybdenum	<0.05
Vanadium	<0.04
Copper	<0.01
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.035
Titanium	<0.02
Iron	99.22

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.
- 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 : 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. 3662 Invoice No. Truck No. PB11J 8225	Date 26-03-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. OF PCS.
AISI1008	50 MM	S-730	L/RT	ORANGE	AS ROLLED	7315	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	0.48	0.028	0.034	0.17	-	-	-	-	0.024	-	-	-	-	-

METALLURGICAL RESULTS

METALLURGICAL RESULTS										Aust. Grain Size ASTM No. (E-112)	?	Gas content (ppm)	
INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A													
	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. / Rc	OK	OK	OK
Reqd.									
Actual									

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLES DRAWN AS PER Q.A.P.

PREPARED BY

AUTHORISED SIGNATORY

On Century Paper