

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)

Fax No. : +91-129-4065535

Ph. No. : 4065531, 4065532

E-mail : castings@bsltd.net

CERTIFICATE NO.
T - 1452 & T- 1453

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

Issued to : M/s. Nov Sara India (P) Ltd.
 7/1, Pritam Road, Unit - II,
 Dehra Dun - 248001
 Sample Description : Sample No. - 5262A, Heat No. - S-904

Report No. 153103
 Ref. No. Nil
 D.O.T. : 30.09.2010
 D.O.R. : 29.09.2010
 J.O. No. : 46913

RESULTS

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

Sample ID; J.O.No. - 46913/4

<u>Element</u>	<u>%</u>
Carbon	0.092
Silicon	0.134
Sulphur	0.020
Phosphorus	0.036
Manganese	0.468
Nickel	0.053
Chromium	0.247
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.062
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.026
Titanium	<0.02
Iron	98.84

Checked By



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

- Note :
- 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

TEST CERTIFICATE

F-QCD-03



ISO 9001:2008
ISO 14001:2004

M/S. NOV SARA INDIA PRIVATE LIMITED (UNIT NO.-II)7/1,PRITAM ROAD. DEHRADUN UTTARAKHAND	T.C. No. 2612 Invoice No. Truck No. UA079.8166	Date 25-12-2010
--	--	-----------------

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE-1008	50X50	S-904	LYMT	ORANGE	AS ROLLED	6605	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	0.42	0.023	0.027	0.13					0.028					

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		2.0					

MECHANICAL PROPERTIES

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance											
Regd.											
Actual											

Remarks :