

BSL**SPECTRO LAB**

CERTIFICATE NO.
T - 1452 & T- 1453

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

Issued to : M/s. Sara Sae (P) Ltd.
7/1, Pritam Road, Unit - II
Dehra Dun - 248001
Report No. 9769
Ref. No. Nil
D.O.T. : 03.09.2013
D.O.R. : 02.09.2013
J.O. No. : 2622
Sample Description. : Sample No. - 8659, Heat No. - S-521

RESULTS

Chemical Analysis (Fe Base - LAS)
Protocol : ASTM E 415:2008 (By O.E.S)

Sample ID: J.O.No. - 2622/3

<u>Element</u>	<u>%</u>
Carbon	0.085
Silicon	0.179
Sulphur	0.016
Phosphorus	0.023
Manganese	0.481
* Nickel	0.003
* Chromium	0.008
* Molybdenum	0.000
* Vanadium	0.001
* Copper	0.000
* Tungsten	0.001
* Cobalt	0.001
Aluminium	0.016
* Titanium	0.000
* Boron	0.000

Checked By

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

- Note :
1. The result listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
 2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
 3. *Not Covered under NABL Scope.
 4. This report can not be used as an evidence in a court of law.
 5. Samples will be destroyed after 15 days.
 6. Any Complaints about this report should be communicated within 7 days of issue of this report.
 7. This report shall not be reproduced except in full, without the written permission of the Laboratory.
 8. # Results found outside the range of NABL accredited scope.



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.

E-mail : info@sharusteels.com & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

10439

F-QCD-03



TEST CERTIFICATE

M/S. SARA SAB PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR DEHRADUN (UTTRAKHAND)	T.C. No. 1226 Invoice No. Truck No. MP09HP-8633	Date 17-08-2013
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
AISI-1008	25X50	S-521	L/HT	ORANGE	AS ROLLED	8.690 MT	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	0.021	0.029	0.27	-	-	-	-	0.015	-	-	-	-	-

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	6/7	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			
ACTUAL	1.0		1.0		1.0		1.0	0.5		P+P	H ₂	

MECHANICAL PROPERTIES

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :

OK
1208
Rabab.