

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

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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

Report No.

161408

D.O.T. :

24.01.2011

Ref. No.

Nil

D.O.R. :

22.01.2011

Sample Description

Sample No. - 5569A, Heat No. - S-706

J.O. No. :

48925

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

Sample ID; J.O.No. - 48925/4

Element**%**

Carbon	0.094
Silicon	0.147
Sulphur	0.028
Phosphorus	0.035
Manganese	0.442
Nickel	0.058
Chromium	0.13
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.072
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.036
Titanium	<0.02
Iron	98.93

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.



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
E-mail : info@sharusteels.com & sharusteels@connect2dsl.net

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

TEST CERTIFICATE

F-QCD-03



M/S. NOV SARA INDIA PRIVATE LIMITED (HET NO.-1117/1, PRITAN ROAD, DEHRADUN, UTTARAKHAND)	T.C. No. 3107 Invoice No. Truck No. PB-115-8225	Date 07-02-2011
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY CONDN.	QNTY M.T.	NO. OF PCS.
41S11008	40 MM	S-706	L/H1	ORANGE	AS ROLLED	73to	100SE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.18	0.42	0.031	0.033	0.13	-	-	-	-	0.022	-	-	-	-	-

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A								Aust. Grain Size ASTM No. (E-112)	T	Gas content (ppm)	
A		B		C		D		Decarb. (MM)		O ₂	
STD	T	H	T	H	T	H	T		H	Micro-Structure	
MAX											
ACTUAL	1.5		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.							0X	0X	0X
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

AUTHORIZED SIGNATORY