

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 :

PLOT NO. 263, SECTOR-24

FARIDABAD-121005 (INDIA)

Fax No. : +91-129-4065535

Ph. No. : 0129-4189800

E-mail : castings@bsltd.net

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

Issued to : M/s. Nov Sara India (P) Ltd. Report No. 185371 D.O.T. : 28.01.2012
7/1, Pritam Road, Unit - II, Ref. No. Nil D.O.R. : 27.01.2012
Dehra Dun - 248001 J.O. No. : 57863

Sample Description Sample No. - 7239, Heat No. - 961/A-24/2012 (BX157)

RESULTS

Chemical Analysis (Fe Base - SS)
Protocol : ASTM E 1086:2008 (By O.E.S)

Sample ID; J.O.No. - 57863

<u>Element</u>	<u>%</u>
Carbon	0.049
Silicon	0.467
Sulphur	0.003
Phosphorus	0.017
Manganese	0.347
Nickel	39.90
Chromium	22.47
Molybdenum	3.380
Vanadium	0.068
Copper	2.209
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.041
Titanium	0.621
Iron	30.39

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.

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	Dehra Dun - 248001			J.O. No. :	57863
Sample Description	Sample No. - 7239, Heat No. - 961/A-24/2012 (BX157)				

TEST RESULTS

Tensile Strength - N/mm ² (Psi)	590.00	(85537.31)
Yield Stress - N/mm ² (Psi)	309.76	(44916.74)
Elongation (%)	59.16	
R.A. (%)	79.94	
Hardness BHN	149	

Protocol Used : ASTM A-370

Checked By.



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M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@ gmail.com Website : www mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. Divi. - II 7/1, Pritam Raod Dehradun - UK 248001	T.C. No.	: M- 861
	Dated	: 29.01.2012
	Heat No.	: 961/A- 24/2012
	Date	: 24.01.2012

P.O. No. : B/MDS0138/11 Dated 01.01.2012

Specification : INC 825

Foundry identification : MD

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1150 °C, 1.30 Hours Soaking and water quenched.

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.046	0.490	0.385	22.20	40.700	3.060	0.013	0.0346	2.210	0.625	0.027

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reductio	Charpy At ambient	Bend Tes	Hardness			
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		BHN			
Min	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-
Actual										

Job No.	Description	Qty.
	Gasket Ring Joint BX - 157	
1002- 138	Item Code GI069	28 Nos.
I/GRJ0091/11		

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

Gopdass

Checked by

[Signature]
Approved by.

for M. D. Steels Pvt. Ltd.

[Signature]
Quality Control

M. D. STEELS (P) LTD.

F-669, Phase II, Indl. Area

Bhiwadi - 301 019.

☎ 1493 - 222483, 512079