

BSL**SPECTRO LAB****METALLURGICAL TESTING CENTRE**

(An Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

WORKS & OFFICE :

PLOT NO. 263, SECTOR-24

FARIDABAD-121005 (INDIA)

Fax No. : +91-129-4065535

Ph. No. : 4065531, 4065532

E-mail : castings@bsltd.net

TEST REPORT

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

CERTIFICATE NO.
T - 1452 & T - 1453

Issued to : M/s. Nov Sara India (P) Ltd. Report No. 106911 D.O.T. : 10.10.2008
 7/1, Pritam Road, Unit - II
 Dehra Dun - 248001 Ref. No. Nil D.O.R. : 08.10.2008

Sample Description Sample No. - 1911A, Heat No. - R-126, Dia-56mm J.O. No. : 33121

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 33121/3

By Spectrometer (ASTM E1507;2003)

<u>Element</u>	<u>%</u>
Carbon	0.048
Silicon	0.065
Sulphur	0.003
Phosphorus	0.016
Manganese	0.325
Nickel	45.59
Chromium	19.91
Molybdenum	3.486
Vanadium	0.042
Copper	1.718
Tungsten	0.290
Cobalt	0.402
Aluminium	0.085
Titanium	1.063
Iron	26.94

Checked By

263,
SECTOR-24,
FARIDABAD

Signature

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. This report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.



LAXCON STEELS LTD.

Regd Office & Works: Plot No. 235, Sarkhej-Bayla N.H. No. 8-A,
Village: Sari, Taluka Sanand, Dist. Ahmedabad, Gujarat-382220 (India)
Phone: 02717-395046 / 47 Fax: 07998068048

Q180A004 GT

TEST CERTIFICATE

(En 10204 - 3.1.B)

AD 2000 - MERKBLATT WO REGN.NO. 07202 W 14090600005 : PED QMS 97/23/EC CRT NO. 07 202 2 14090600007

Customer Name & Destination :

M/s. Sara Services & Engineers Pvt. Ltd.
7/1, Pritam Road,
Dehradun - 248 001.

T. C. No. : L - 6565

Date : 26/08/2008

ORDER NO: NH

Material Specification	Manufacturing Route	Condition	Size	Colour Code	Weight (Mt)
INCOLOY 825 ROUND BARS	Electric Induction Furnace With ADD Route, Ladle Refined, Fully Killed Quality Steel.	As Rolled.	56 MM ✓		

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS	C	Mn	Si	S	Cr	Ni	Mo	Ti	Cu	Al	SIZE	Pcs.
Specification	Min.	-	-	-	19.50	38.00	2.50	0.60	1.50	-		
	Max.	0.050	1.00	0.50	0.030	23.50	46.00	3.50	1.20	3.00	0.20	
Heat No.	Grade											
R-126	INCOLOY 825	0.010	0.65	0.19	0.010	20.15	42.58	3.11	0.74	1.74	0.070	56 MM 14

ULTRASONIC TESTING
ACC. STD : 6mm FBH

REMARKS : NA

MECHANICAL PROPERTIES : TEST STD ASTM A370

Test Condition	UTS (N/MM ²)	YS (N/MM ²)	% EL.	% RA	Hardness (BHN)
					MIN MAX
SPEC RESULT					

METALLURGICAL TEST RESULT

INCLUSION RATING ASTM E - 45

	A	B	C	D	Grain Size E 112	Test Temp : Sr. No	Impact Testing : Test Std :	Impact Energy (J)	Average
Thin	-	-	-	-		1			
Thick	-	-	-	-		2			
	-	-	-	-		3			

Remarks

- 1 Impact Testing as per DINEN 10015 - 1
- 2 Ultrasonic testing as per ASTM A 388
- 3 Material is free from residual radioactive elements.
- 4 Lead not added during manufacturing.

For Laxcon Steels Ltd.

For Laxcon Steels Ltd.

WE CONFIRM THAT THE TEST
CERTIFICATE FINDINGS ARE
CORRECT & RESULTS ARE
AS PER STANDARD
CUSTOMER'S REQUIREMENTS

Chemist

Authorized Signatory (Q.C.)