



## METALLURGICAL TESTING CENTRE

( A Unit of BSL Castings Pvt. Ltd. )  
( NABL ACCREDITED LAB )

CERTIFICATE NO.  
T - 1452 & T - 1453

## TEST REPORT

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.	206183	D.O.T. :	20.12.2012
		Ref. No.	Nil	D.O.R. :	19.12.2012
Sample Description.:	Sample No. - 8145, Heat No. - D2911			J.O. No. :	63626

## RESULTS

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

Sample ID; J.O.No. - 63626/2

Element	%
Carbon	0.068
Silicon	0.701
Sulphur	0.017
Phosphorus	0.035
Manganese	0.985
Nickel	10.17
Chromium	16.89
Molybdenum	2.061
Copper	0.393
Tungsten	0.058
Cobalt	0.440
# Niobium	0.030
Titanium	0.030

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.

## MATERIAL TEST CERTIFICATE

ATE NO.:	KSL-4118/12-13	CUSTOMER: M/S SARA SAE PVT LTD JALANDHAR (PUNJAB)
	09.12.2012	
O.:	D 2911	
IFICATION:	AISI 316	P.O NO. & DATE: 2804 Dated 23.10.2012
ICE NO. & DATE:	543 Date 09.12.2012	

## CHEMICAL COMPOSITION

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.08	0.069
Mn		2.00	1.47
Si		1.00	0.48
P		0.045	0.030
S		0.030	0.024
Cr	16.00	18.00	16.21
Ni	10.00	14.00	10.12
Mo	2.00	3.00	2.09
V			
Ti			
Cu			
Al			

**REMARKS**

The Steel has been made by Electric Furnace which is fully killed by Al & Si. It has fine grain structure

PREPARED BY

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