

**BSL****SPECTRO LAB**CERTIFICATE NO.  
T - 1452 & T - 1453**METALLURGICAL TESTING CENTRE**( A Unit of BSL Castings Pvt. Ltd. )  
( NABL ACCREDITED LAB )**&****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.	206182	D.O.T. :	20.12.2012
		Ref. No.	Nil	D.O.R. :	19.12.2012
Sample Description. :	Sample No. - 8144, Heat No. - D2906			J.O. No. :	63626

**RESULTS**

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

Sample ID; J.O.No. - 63626/1

<u>Element</u>	<u>%</u>
Carbon	0.057
Silicon	0.653
Sulphur	0.012
Phosphorus	0.031
Manganese	0.982
Nickel	10.14
Chromium	16.88
Molybdenum	2.041
Copper	0.389
Tungsten	0.056
Cobalt	0.439
# Niobium	0.030
Titanium	0.028

  
Checked ByAuthorised 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

NO.:	KSL-4117/12-13	CUSTOMER: M/S SARA SAE PVT LTD
	09.12.2012	JALANDHAR (PUNJAB)
	D 2906	
TION:	AISI 316	P.O NO. & DATE: 2804 Dated 23.10.2012
NO. & DATE:	543 Date 09.12.2012	

## CHEMICAL COMPOSITION

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.08	0.067
Mn		2.00	1.41
Si		1.00	0.44
P		0.045	0.033
S		0.030	0.021
Cr	16.00	18.00	16.27
Ni	10.00	14.00	10.14
Mo	2.00	3.00	2.11
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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