

**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. Sara Sae (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	203323	D.O.T. :	31.10.2012
		Ref. No.	Nil	D.O.R. :	30.10.2012
Sample Description	Sample No. - 8085, Heat No. - D-2768			J.O. No. :	62888

**RESULTS**

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

Sample ID: J.O.No. - 62888/2

<u>Element</u>	<u>%</u>
Carbon	0.054
Silicon	0.512
Sulphur	0.011
Phosphorus	0.034
Manganese	1.206
Nickel	10.27
Chromium	17.13
Molybdenum	2.082
Copper	0.330
Tungsten	0.040
Cobalt	0.179
# Niobium	0.036
# Titanium	0.011

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**

CERTIFICATE NO.:	KSL-4022/12-13	CUSTOMER: M/S SARA SAE PVT LTD JALANDHAR (PB)
DATE:	07.11.2012	
HEAT NO.:	D 2768	
SPECIFICATION:	AISI 316	P.O NO. & DATE: 2804, 23.10.12
INVOICE NO. & DATE:	453, 07.11.12	

SL. NO.	ITEM DESCRIPTION	QTY.
1	SS ROUND DIA 56 MM	78
	GRADE COLOR CODE(PINK)	
	HEAT NO COLOR CODE (WHITE)	

**CHEMICAL COMPOSITION**

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.080	0.070
Mn		2.00	1.24
Si		1.00	0.58
P		0.045	0.032
S		0.030	0.014
Cr	16.00	18.00	17.20
Ni	10.00	14.00	10.18
Mo	2.00	3.00	2.05
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*

**Registered Office :**  
G & JU – 26/1, Pitampura,  
Delhi – 110088 (INDIA)

Telefax : + (91) 11 27343847  
Support : + (91) 9810112977

**Works :**  
A – 350, Phase-I, Riico Industrial Area,  
Bhiwadi – 301019, Rajasthan (INDIA)

Phone : + (91) 1493 220142  
Fax : + (91) 1493 220562

WEB : [WWW.KSL.IN](http://WWW.KSL.IN)  
E-MAIL : [INFO@KSL.IN](mailto:INFO@KSL.IN)

