

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

Issued to :	M/s. Sara Sac (P) Ltd.	Report No.	13171	D.O.T. :	23.10.2013
	7/1, Pratap Road, Unit - II	Ref. No.	Nil	D.O.R. :	23.10.2013
	Dehra Dun - 248001			J.O. No. :	3467
Sample Description. :	Sample No. - 8842, Heat No. - 308119, Round Dia - 56.0mm				

RESULTS

Chemical Analysis (Fe Base - LAS)
Protocol : ASTM E 415:2008 (By O.E.S)

Sample ID; J.O.No. - 3467/1

<u>Element</u>	<u>%</u>
Carbon	0.112
Silicon	0.159
Sulphur	0.013
Phosphorus	0.023
Manganese	0.424
* Nickel	0.003
* Chromium	0.009
* Molybdenum	0.001
* Vanadium	0.001
* Copper	0.003
* Tungsten	0.000
* Cobalt	0.001
Aluminium	0.013
* Titanium	0.001
* Boron	0.000

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.



TEST CERTIFICATE

Product/Size :	56 mm Round	Customer :	
T. C. No. : QMS/R/QAD/RM/15/M003993	4	DT. 18/10/2013	SAE SAE PRIVATE LIMITED UNIT - 11
Order No.	KMP3236009077	DEHRADUN	
Invoice No.:	2013001243		
Wagon/Truck No.:	MF09HF0633	Invoice Wt. (T):	9.970

HEAT NO	308119
No Of Pcs/Bundles	1
C %	0.09 ✓
Mn %	0.42 ✓
P %	0.023 ✓
S %	0.017 ✓
Si %	0.180 ✓
Al %	0.036
C.E. (IF APPLICABLE)	0.16
YS (N/mm ²)	252
UTS (N/mm ²)	382
SEL	31
WRA	NA
OTHERS	NA
BEND TEST	NA
GRADE	SAE1010

OK
10/10
Dy. Pak
SES-26-747

AVERAGE WEIGHT OF EACH BUNDLE IS 9.970 TONS APPROXIMATELY

The material supplied conform to the standard rolling and weight tolerances.

For HOD(QA & TD)
Visakhapatnam Steel Plant

[Signature]

RASHTRIYA ISPAT NIGAM LTD.
(A GOVT. OF INDIA ENTERPRISE)
1st Floor, P.C. ROAD
DEHRADUN-248 001