

TEST REPORT

Issued to: M/s SARA SAE(P)Ltd.Unit-II A/2Sara Ind.Estate Ltd.Chak- rata Road,Selaqui,Dehradun.	Report No. 1222	D..O.T. 5/3/2012
Sample Description INGOT 4"X5"	Sample No. 7400	D..O.R 6/3/2012
		Heat No. D-2101

RESULTS

Chemical Analysis
By Spectrometer



<u>Element</u>	<u>%</u>
Carbon	0.0478
Silicon	0.365
Sulphur	0.0125
Phosphorus	0.0297
Manganese	0.99
Nickel	10.22
Chromium	16.39
Molybdenum	2.12
Vanadium	0.0609
Copper	0.344
Niobium/Columbium	0.016
Cobalt	0.176
Aluminium	0.0294
Titanium	0.0203
Iron	69.10

Checked By
Arun Mishra



Authorised Signatory
(Q.M / T.M)

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. The 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.
7. *Not Covered under NABL Scope.



MATERIAL TEST CERTIFICATE

TC NO-KSL-3315/11-12	Date :	27.02.2012	Customer :	M/S SARA SAE PVT LTD, DEHRADUN
Heat No. D -2101			Delivery:	M/S SHARU STEEL (P) LTD, LUDIANA
Specification:- AISI 316	P.O. No.:	B/KES/0147/11 Dated 18.02.2012	Invoice No:	968 Date 27.02.2012

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Forging Ingot 4"X5"	90
	Grade Color Code: Pink	
	Heat Color Code: Yellow	

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V	
AS PER SPEC.	Min. (%)					16.00	10.00	2.00					
	Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value		0.064	1.24	0.47	0.040	0.024	16.24	10.06	2.14				

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm ²	U.T.S. N/mm ²	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC.	Min.						
	Max.						
Actual Value							

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

REMARK

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

Sign of the Inspecting Officer

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Sign of Chief Quality Control

