



# SPAN FORGING PVT. LTD.

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Mfrs. of : Steel Forgings, CNC Turned Components, Centrifugal Casting of alloy steel

Works : Village Tatarpur (Near Prithla) Teh. & Distt. Palwal

E-mail : spanforging@rediffmail.com

## TEST REPORT

Ref. No. ....

Date.....

Issued to: M/s SARA SAE(P)Ltd.Unit-II  
A/2Sara Ind.Estate Ltd.Chak-  
rata Road,Selaqui,Dehradun.

Report No.

1223

D.O.T.

5/3/2012

D.O.R

6/3/2012

Sample Description

INGOT 4"X5"

Sample No.

7401

Heat No.

D-2102

## RESULTS

Chemical Analysis  
By Spectrometer

Element	%
Carbon	0.0577
Silicon	0.633
Sulphur	0.0139
Phosphorus	0.0265
Manganese	1.05
Nickel	10.41
Chromium	16.26
Molybdenum	2.1
Vanadium	0.0655
Copper	0.365
Niobium/Columbium	0.0169
Cobalt	0.187
Aluminium	0.0858
Titanium	0.0334
Iron	68.60

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-3316/11-12	Date : 27.02.2012	Customer : M/S SARA SAE PVT LTD, DEHRADUN
Heat No. D -2102		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"	30
	Grade Color Code: Pink	
	Heat Color Code: Sky Blue	

### 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		0.070	1.29	0.51	0.042	0.021	16.19	10.14	2.09			

### HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

### PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm2	U.T.S. N/mm2	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

Sign of the Chief Quality Control