



# 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.

1224

D.O.T.

5/3/2012

D.O.R

6/3/2012

Sample Description

INGOT 4"X5"

Sample No.

7402

Heat No.

D-2108

## RESULTS

Chemical Analysis  
By Spectrometer

<u>Element</u>	<u>%</u>
Carbon	0.0484
Silicon	0.42
Sulphur	0.0152
Phosphorus	0.034
Manganese	0.976
Nickel	10.35
Chromium	16.36
Molybdenum	2.14
Vanadium	0.063
Copper	0.329
Niobium/Columbium	0.0132
Cobalt	0.172
Aluminium	0.0256
Titanium	0.0215
Iron	69.00

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 with in 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-3325/11-12	Date : 02.03.2012	Buyer:- M/S SARA SAE PVT LTD, DEHRADUN
Heat No. D -2108		Delivery: M/S SHARU STEEL (P) LTD, JALANDHAR
Specification:- AISI 316	P.O. No.: B/KES/0147/11 Dtd 18.02.2012	Invoice No: 978 Date 02.03.2012

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Steel Ingot 4" X 5"	90
	Grade Color Code: Pink	
	Heat No. Color Code: Red	

### 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	0.056	1.19	0.40	0.040	0.021	16.31	10.10	2.07				

### 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

Registered Office:

G & JU - 26/1, Pitampura, Delhi - 110088 (INDIA)

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Works :

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Sign of the Chief Quality Control

