



# SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

Works : Village - Tatarpur (Near Prithla) Teh. Palwal, Distt. Faridabad, Cell : 9810010535

## TEST REPORT

Ref. No. ....	Report No.	Date
Issued to: M/sNov Sara India Pvt.Ltd. 7/1,Pritam Road,Unit-II Dehradun-248001	694	D..O.T. 2/8/2011
		D..O.R. 2/8/2011
Sample Description DIA 56 MM	Sample No. 6497	Heat No. D-1321

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.0737
Silicon	0.449
Sulphur	0.0198
Phosphorus	0.0211
Manganese	1.09
Nickel	10.2
Chromium	16.87
Molybdenum	2.07
Vanadium	0.0478
Copper	0.377
Tungsten	0
Cobalt	0.185
Aluminium	0.0093
Titanium	0.0221
Iron	68.50

Checked By  
Arun Mishra



Autorised 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-2488/11-12	Date : 24.07.2011	Customer : M/S NOV SARA INDIA PVT. LTD.
Heat No. D 1321		DEHRADUN
Specification- AISI 316	P.O. No.: B/KES0072/11 Dtd 04.07.2011	Invoice No: 282 Date 24.07.2011

SL NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Round $\phi$ 56 MM	57

**CHEMICAL COMPOSITION**

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER Min. (%)						16.00	10.00	2.00				
SPEC Max. (%)	0.080	1.50	1.00	0.040	0.030	18.00	14.00	3.00				
Actual Value	0.067	1.39	0.52	0.027	0.019	16.66	10.14	2.17				

**HEAT TREATMENT**

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

**PHYSICAL PROPERTIES**

Mechanical Properties	Y.S. N/mm <sup>2</sup>	U.T.S N/mm <sup>2</sup>	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER Min.							
SPEC 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.