



# SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

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

Date.....

Ref. No. ....

## TEST REPORT

Issued to: M/sNov Sara India Pvt.Ltd. 7/1,Pritam Road,Unit-II Dehradun-248001	Report No. 511	D.O.T. 21-06-2011 D.O.R 20-06-2011
Sample Description T.S.	Sample No. 6272	Heat No. D-1112

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID  J.O No.

<u>Element</u>	<u>%</u>
Carbon	0.0531
Silicon	0.558
Sulphur	0.0186
Phosphorus	0.0382
Manganese	0.966
Nickel	10.1
Chromium	16.38
Molybdenum	2.02
Vanadium	0.0493
Copper	0.357
Tungsten	0
Cobalt	0.191
Aluminium	0.0104
Titanium	0.024
Iron	69.10

*[Signature]*  
Autorised Signatory  
(Q.M / T.M )

Checked By  
Arun Mishra

*[Signature]*

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-2198/11-12	Date :	26.04.2011	Customer :	M/S NOV SARA INDIA PRIVATE LIMITED DHEHARADUN
Heat No. D-1112				
Specification: AISI 316	P.O. No.:	B/KES0015/10 Dt. 10.01.2011	Invoice No:	64 Dated 26.04.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	SS 316 ROUND Ø 56 MM	102

**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	1.52	0.54	0.037	0.021	16.32	10.19	2.14			0.016	

**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 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.