



SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

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

Ref. No.

Date.....

TEST REPORT

Issued to: M/s Nov Sara India Pvt Ltd.
7/1, Pritam Road, Unit-II
Dehradun-248001

Report No.

221

D.O.T.

6/5/2011

D.O.R

5/12/2011

Sample Description

AISI-1008

Sample No.

006022

Heat No.

S-331-A

RESULTS

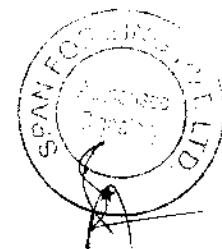
Chemical Analysis
By Spectrometer

Sample ID

J.O No.

| <u>Element</u> | <u>%</u> |
|----------------|----------|
| Carbon | 0.0505 |
| Silicon | 0.154 |
| Sulphur | 0.0397 |
| Phosphorus | 0.0267 |
| Manganese | 0.361 |
| Nickel | 0.0103 |
| Chromium | 0.007 |
| Molybdenum | 0.002 |
| Vanadium | 0.0011 |
| Copper | 0.001 |
| Tungsten | 0 |
| Cobalt | 0.0033 |
| Aluminium | 0.0216 |
| Titanium | 0.001 |
| Iron | 99.30 |

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.



SHARU

SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010,

E-mail : info@sharusteels.com & sharusteels@connect2.dsl.net

**QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT**

F-QCD-03



ISO 9001-2008

ISO 14001-2004

TEST CERTIFICATEM/S. NOV SARA INDIA PRIVATE LIMITED
(UNIT NO.-II)7/1, PRITAM ROAD,

DEHRADUN UTTARAKHAND

T.C. No. 1231

Date 08-07-2011

Invoice No.

Truck No. PB-19E-9197

| GRADE | SIZE | HEAT NO. | MANUFACTURING ROUTE | COLOUR CODE | SUPPLY CONDN. | QNTY. M.T. | NO. OF PCS. |
|----------|-------|----------|---------------------|-------------|---------------|------------|-------------|
| AISI1008 | 56 MM | 8-331 | L/HT | YELLOW | AS ROLLED | 787D | LOOSE |

CHEMICAL COMPOSITION IN PERCENTAGE

| | C | Mn | S | P | Si | Ni | Cr | Mo | V | Al | Cu | Sn | Ti | B | Ca |
|--------|------|------|-------|-------|------|----|----|----|---|-------|----|----|----|---|----|
| Min. | - | | | | | | | | | | | | | | |
| Max. | - | | | | | | | | | | | | | | |
| Actual | 0.48 | 0.40 | 0.028 | 0.025 | 0.18 | | | | | 0.022 | | | | | |

METALLURGICAL RESULTS

| INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A | | | | | | | | Aust. Grain Size ASTM No. (E-112) | 7 | Gas content (ppm) | | N ₂ | H ₂ |
|--|--------|-----|-----|-----|-----|-----|-----|-----------------------------------|--------------|-------------------|----------------|----------------|----------------|
| STD MAX | A | | B | | C | | D | | Decarb. (MM) | O ₂ | N ₂ | H ₂ | |
| | T | H | T | H | T | H | T | H | | | | | |
| | ACTUAL | 1.5 | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | | | | | |

MECHANICAL PROPERTIES

| | U.T.S. | Y.S. | EL % | RA % | Impact Value | Hardness B.H.N. / R _o | MACRO | ULTRASONIC TEST | MIX UP TEST |
|--------|--------|------|------|------|--------------|----------------------------------|-------|-----------------|-------------|
| Reqd. | | | | | | | OK | OK | OK |
| Actual | | | | | | | | | |

HARDENABILITY (HRC) AS PER IS : 3848

| | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|
| Distance | | | | | | | | | |
| Regd. | | | | | | | | | |
| Actual | | | | | | | | | |

Remarks :

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON
ACTUAL RESULTS CARRIED OUT ON SAMPLES DRAWN AS PER Q.A.P.

PREPARED BY

AUTHORISED SIGNATORY