



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(P)Ltd.
A/2 Sara Ind.Estate Ltd.Chak-
rata Road,Selaqui,Dehradun.

Report No.

1024

D.O.T.

10/12/2011

D.O.R

8/12/2011

Sample Description

TEST SAMPLE

Sample No.

7015-A

Heat No.

S-478-A

RESULTS

Chemical Analysis

By Spectrometer

Element

%

Carbon	0.0971
Silicon	0.116
Sulphur	0.0291
Phosphorus	0.033
Manganese	0.469
Nickel	0.054
Chromium	0.084
Molybdenum	0.017
Vanadium	0.00097
Copper	0.0587
Niobium/Columbium	0.001
Cobalt	0.0023
Aluminium	0.0722
Titanium	0.001
Iron	98.90

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.



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

TEST CERTIFICATE

F-QCD-03



M/S: SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, DELAQUI RAMPUR DEHRADUN (UTTRAKHAND)	T.C. No.: 3436 Date: 01-02-2012 Invoice No.: 2511 Truck No.: PB-19E 9097
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. OF PCS.
AISI 1630	58 MM	S-470	L/HT	880HH	AS ROLLED	770	100SE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.															
Max.															
Actual	0.18	0.58	0.035	0.034	0.22					0.022					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A										Aust. Grain Size ASTM No. (E-112)	4	Gas content (ppm)	
A		B		C		D				Decarb. (MM)		O ₂	
T	H	T	H	T	H	T	H			Micro-Structure	0%	N ₂	
STD MAX												H ₂	
ACTUAL	1.5		1.0		1.0		1.5						

MECHANICAL PROPERTIES

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Rc	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqt.							OK	OK	OK
Actual									

HARDENABILITY (HRC) AS PER IS : 3648

Distance									
Reqt.									
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