



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.

140

D..O.T.

25/5/2012

D..O.R

24/5/2012

Sample Description

Gasket Ring Joint

Sample No.

7663

Heat No.

1043/E-06/2012

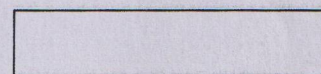
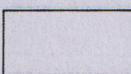
RESULTS

Chemical Analysis

By Spectrometer

Element	%
Carbon	0.0349
Silicon	0.328
Sulphur	0.0069
Phosphorus	0.0144
Manganese	0.193
Nickel	39.6
Chromium	22.07
Molybdenum	3.45
Vanadium	0.0598
Copper	1.94
Niobium/Columbium	0.003
Cobalt	0.0927
Aluminium	0.0493
Titanium	0.8
Iron	31.30

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 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.

BSL**SPECTRO LAB**

CERTIFICATE NO.
T - 1452 & T - 1453

METALLURGICAL TESTING CENTRE

(A Unit of BSL Castings Pvt. Ltd.)
(NABL ACCREDITED LAB)

WORKS & OFFICE :
PLOT NO. 263, SECTOR-24
FARIDABAD-121005 (INDIA)
Fax No. : +91-129-4065535
Ph. No. : 0129-4189800
E-mail : castings@bsltd.net

TEST REPORT

BSL/SPECTRO/5.10F-01/01/00

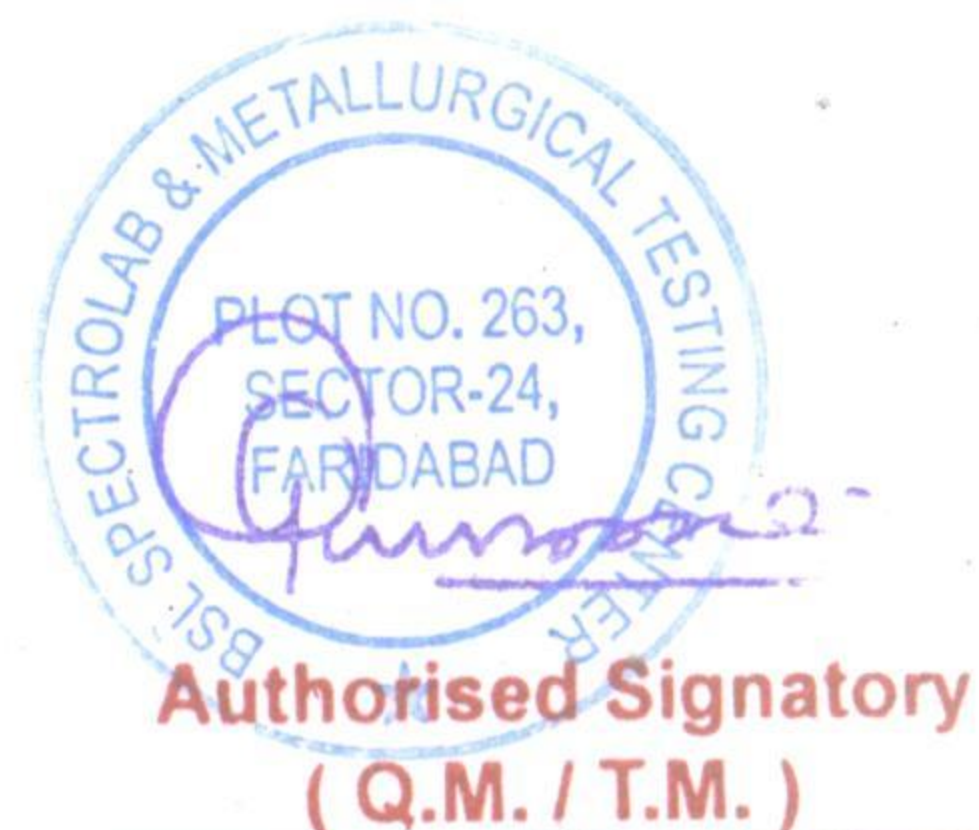
Issued to :	M/s. Nov Sara India (P) Ltd. 7/1, Pritam Road, Unit - II. Dehra Dun - 248001	Report No.	187581	D.O.T. :	27.05.2012
		Ref. No.	Nil	D.O.R. :	24.05.2012
Sample Description	Sample No. - 7663 Heat No. - 1043/E-06/2012			J.O. No. :	58528

TEST RESULTS

Tensile Strength - N/mm ² (Psi)	617.00 (89488.45)
Yield Stress - N/mm ² (Psi)	336.00 (48732.77)
Elongation (%)	52.80
R.A. (%)	71.54
Hardness BHN	156.

Protocol Used : ASTM A-370


Checked By


PLOT NO. 263,
SECTOR-24,
FARIDABAD
Authorised Signatory
(Q.M. / T.M.)

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M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@gmail.com Website : www.mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. UNIT - IV Backside Radha Soami Satsang Ghar Villagae - Mahal, G.T. Road, Distt. - Jalandhar Goraya - Punjab	T.C. No.	: M- 943
	Dated	: 09.05.2012
	Heat No.	: 1043/E- 06/ 2012
	Date	: 06.05.2012

P.O. No. : dated 05.05.2012

Specification : INC 825

Foundry Identification : MD

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1150^o C, 1.30 Hours Soaking and water quenched.

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.047	0.460	0.180	21.00	40.400	3.020	0.017	0.0394	1.900	0.65	0.0185

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reduction of Area	Charpy At ambient	Bend Test	Hardness			
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		BHN			
Min	-	-	-	-	-	-	-	-	-	-
Max	-	-	-	-	-	-	-	-	-	-
Actual	-	-	-	-	-	-	-	-	-	-

S. No.	Description	Qty.
1	Centrifugally Casted Ring Proof Machined Size : OD 287 mm X ID 262 mm X Thickness 37 mm	30 Nos.
2	Centrifugally Casted Ring Proof Machined Size : OD 281 mm X ID 256 mm X Thickness 37 mm	04 Nos.

Remarks : Visual inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

for M. D. Steels Pvt. Ltd.

Gopabass

Checked by

Approved by

Asim

Quality Control

M. D. STEELS (P) LTD.

F-669, Phase-II, Indl Area

Bhiwadi - 301 019,

Phone : 1493 - 222483, 512079