



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. New Sara India Pvt.Ltd.
7/1 Piplam Road, Unit-II
Delhi - 110024-248001

Report No.

580

D.O.T.

1/7/2011

D.O.R

1/7/2011

Sample Description

T.S.

Sample No.

6353

Heat No.

R-580

RESULT

Chemical Analysis
By Spectrometer

Sample ID

J.O No.

Element

%

Carbon	0.0697
Silicon	0.518
Sulphur	0.0169
Phosphorus	0.0413
Manganese	1.53
Nickel	10.02
Chromium	16.94
Molybdenum	2.03
Vanadium	0.0584
Copper	0.402
Tin	0
Cobalt	0.173
Aluminium	0.0071
Titanium	0.0157
Iron	68.10

Checked By
Arun Mishra

Arun Mishra



Autorised Signatory
(Q.M / T.M)

1. The result list 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 should not be reproduced except in full, without the written permission of the Laboratory.
7. *Not Covered under NABL Scope.



PARVATI LTD.

Regd Office & Works : 27, Rajasthani Udyog Nagar, G. T. Karnal Road,
NEW DELHI - 33, Phone : 91 - 11 - 27691481, 1282, 1283 Fax : 91 - 11 - 27691909

TEST CERTIFICATE

Customer Name & Destination : M/S NOV SARA INDIA(P)LTD.				T.C.NO.:P-856		Date :18.3.11		ORDER NO : VERBAL					
Material Specification		Manufacturing Route		Supply Condition		Size		PCS		Colour Code		Weight (Mt)	
AISI-316		INDUCTION FURNACE		AS ROLLED		4X5X44		141		BLUE		32.25 51.35 42.05 192.0	
CHEMICAL ANALYSIS IN PERCENTAGE													
ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	NB	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.		Grade											
R-578		AISI-316		.072	1.44	.48	.013	.032	16.57	10.11	2.04	.0670	4X5X44 31
R-579		AISI-316		.064	1.51	.52	.016	.034	16.72	10.06	2.06	.0644	4X5X44 50
R-580		AISI-316		.073	1.53	.46	.013	.030	16.60	10.10	2.03	.0691	4X5X44 41
R-581		AISI-316		.069	1.47	.46	.015	.032	16.58	10.08	2.05	.0613	4X5X44 19
ULTRASONIC TESTING ACC. STD : 6mm FBH				REMARKS : NA									
MECHANICAL PROPERTIES : TEST STD ASTM A370													
Test Condition		UTS (N/MM ²)		YS (N/MM ²)		% EL		% RA		Hardness (BHN)			
										Min.		Max.	
SPEC		-		-		-		-					
RESULT		-		-		-		-					
METALLURGICAL TEST RESULT						Grain Size E 112		IMPACT TESTING :					
INCLUSION RATING ASTM E - 45								Test Temp :		Test Std :			
		A	B	C	D			Sr. No		Impact Energy (J)		Average	
Thin		-	-	-	-			1		-			
Thick		-	-	-	-			2		-			
		-	-	-	-			3		-			
JOMINY HARDENABILITY : ASTM - 3848								MACROSTREAK FLAW TEST (IS - 4075)					
DIST mm/Inch		J	J	J	J	J	J	Marco Test (ASTM E - 381)		1 st Step		2 nd Step 3 rd Step	
ACTUAL HRC													
Visual Inspection :													
remarks													
1 Impact testing as per dinen 10015 - 1													
2 Ultrasonic testing as per astm a 388													
3 Material is free from residual radioactive elements.													
4 Lead not added during manufacturing.													
5 Steel has been manufactured in mercury free environment.													
For Parvati Ltd.													
WE CONFIRM THAT THE TEST CERTIFICATE FINDINGS ARE CORRECT & RESULTS ARE AS PER STANDARD / CUSTOMER'S REQUIREMENTS													
Chemist													
Authorized Signatory (Q.C.)													

