



# SHREE GANESH FORGINGS LIMITED

C-3/C. T.T.C. IND. AREA, THANE BELAPUR ROAD, PAWNE, NAVI MUMBAI, INDIA



**RWTUV**

QAD/F/04A-01

## INSPECTION CERTIFICATE - EN 10204/3.1

PED Certificate No. 04 202 2 440 05 31199 and AD-2000 Merkblatt WO Certificate No. 04202W1300200018

CLIENT : M/S. VAN LEEUWEN STAINLESS B.V.	PRODUCT : MACHINED STAINLESS STEEL FORGED FLANGES	CERTIFICATE NO.: EXP/2008-09/ 460
ORDER NO. : 802121	MATERIAL SPECIFICATION : ASTM / ASME A/SA 182-2004, Sec II, Part- A, Add 06	DATE : 29.07.2008
DATE : 13.02.2008	QUALITY : F 316 L	MANUFACTURER'S BRAND :
INVOICE NO. : EXP/2008-09/ 044 DT: 04.07.2008	DIMENSIONAL SPECIFICATION : ASME B 16.5	INSPECTORS STAMP :

### CHEMICAL ANALYSIS

S.NO.	ITEM DESCRIPTION	H.NO./H.CODE	QTY	% C	% Mn	% Si	% S	% P	% Cr	% Ni	% Mo	% N2	ARTICLE NO.
1	2" 150 LBS BLRF	S - 4558 / 1658	275	.026	1.82	.54	.008	.038	16.76	10.17	2.05	.0546	481.88.146
2	4" 300 LBS SORF	S - 4601 / 2029	15	.025	1.83	.28	.008	.034	16.96	10.18	2.06	.0591	472.88.249
3	14" 150 LBS SORF	C - 259 / 1262	06	.023	1.64	.40	.024	.039	16.95	10.26	2.07	.0523	471.88.433
4	10" 150 LBS BLRF	S - 4503 / 1646	12	.022	1.84	.37	.014	.033	16.92	10.21	2.05	.0570	481.88.367

### MECHANICAL PROPERTIES

S.NO.	H.NO./H.CODE	TENSILE STRENGTH Rm N/mm2	YIELD STRENGTH Rp N/mm2	% Elongation % A G.L = 50 mm	% Reduction Area % Z	Hardness BHN	MICRO- STRUCTURE	IGC ASTM A 262 Practice-E.	HEAT TREATMENT.
			0.2%						
1	S - 4558 / 1658	583	277	57.20	69.53	156	O.K.	O.K.	SOIN. ANNL
2	S - 4601 / 2029	542	260	52.00	67.80	153	O.K.	O.K.	SOIN. ANNL
3	C - 259 / 1262	568	270	53.60	69.43	156	O.K.	O.K.	SOIN. ANNL
4	S - 4503 / 1646	552	244	56.00	72.00	153	O.K.	O.K.	SOIN. ANNL

**REMARKS :** 1) After solution annealing hardness found less than HRC 22 (237 BHN) according to "NACE MR 0175-2003."  
2) PMI Test found C.K.

We certify that the material have been manufactured, tested and examined in accordance with all the requirement of the ordered standard and all test result are acceptable.

**WORKS INSPECTOR**

S. K. GANGULY

POS: 1

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