



SHREE GANESH FORGINGS LIMITED

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



QADIFF 044-01

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. VANLEEUWEN STAINLESS B.V.													
ORDER NO. :	708102													
DATE	10.08.2007													
INVOICE NO. :	EXP/2007-08/ 184 DT: 06.11.2007													
PRODUCT	MACHINED STAINLESS STEEL FORGED FLANGES													
MATERIAL SPECIFICATION	ASTM / ASME A/SA 182-2004, Sec II, Part-A, Add 06													
QUALITY	F 316 / F 316 L													
DIMENSIONAL SPECIFICATION	ASME B 16.5													
CERTIFICATE NO.:	EXP/2007-08/ 1411													
DATE	20.12.2007													
MANUFACTURER'S BRAND	SEI													
INSPECTOR'S STAMP	SEI													
CHEMICAL ANALYSIS														
S.NO.	ITEM DESCRIPTION	H.NO./H.CODE	QTY	% C	% Mn	% Si	% S	% P	% Cr	% Ni	% Mo	% Ti	% N2	ARTICLE NO.
9	3 1/2" 150 LBS SORF	H-129/1337	✓ 05	.027	1.51	.30	.028	.039	16.25	10.01	2.02	--	.0795	471.88.225
10	2" 150 LBS BLRF	5-17-3/1358	✓ 200	.018	1.47	.54	.024	.034	16.76	10.11	2.07	--	.0550	481.88.146
11	1" 300 LBS BLRF	8-2-4/1353	✓ 75	.021	1.50	.29	.028	.042	17.18	10.10	2.10	--	.0744	482.88.092
12	2" 600 LBS BLRF	V-0152/1301	35	.018	1.41	.52	.025	.037	17.06	10.23	2.04	--	.0718	484.88.146
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.					
9	H-129/1337	614	315	59.60	67.14	153	O.K.	O.K.	SOIN. ANNL					
10	5-17-3/1358	578	279	56.00	69.34	156	O.K.	O.K.	SOIN. ANNL					
11	8-2-4/1353	560	278	56.00	70.31	156	O.K.	O.K.	SOIN. ANNL					
12	V-0152/1301	561	258	57.80	74.04	156	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 O.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.														
WORDS INSPECTOR S. K. GANGULY														