

IMS RATING CERTIFICATE No. 10103  
Based on: FULL MEASUREMENT (Metric)

IMS AMENDED TO JANUARY 2007  
Offshore Racing Congress  
Chelmsford, England  
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IMS AMENDED TO JANUARY 2007 VPP: 14/MAY/07 10:33:59  
Cert No 10103 9 L10103.DAT 13/MAY/07 21:56:12  
OFF Meas'd: 00/00/00 F171.OFF 17/OCT/98 09:15:38

NOT VALID AFTER 12/2007

---GPH---  
| 673.7 |  
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--- YACHT DESCRIPTION ---  
Name: MISS PIGGY  
Sail No: FIN-10103  
Class: FIRST 31.7 HR  
LOA: 9.490m Beam(MB) 3.211m  
Designer: FINOT  
Builder: BENETEAU  
Rig: MASTHEAD SLOOP 151% Jib  
Keel/CB: FIXED KEEL  
PropInst: STRUT DRIVE FOLDING  
FwdAccom: YES Spin: SYMMETRIC  
HullCnst: SOLID RudCnst: STNDRD  
Forestay: ADJUST AFT BoomMtl: HEAVY  
Spreadrs: 2 Sets InrFsty: NONE  
Runners: NONE Jumpers: NONE  
Dates: AGE:5/2005 SERIES : 9/1998  
COMMENTS-----

RATING OFFICE:  
Issued: FSF RATING OFFICE  
14/MAY/07 JOAKIM MAJANDER  
Measured: MATINLAHDENKATU 3 E25  
09/MAY/07 FIN-02230 ESPOO FINLAND  
Revalidation Authority: FINNISH S.F.  
Measurer: STAMBEJ  
"I CERTIFY THAT I UNDERSTAND MY  
RESPONSIBILITIES UNDER THE IMS."  
OWNER:.....  
JUHA JA PENNITTI RIIKONEN  
RYPÄLEKUJA 2 E9  
FIN-02710 ESPOO FINLAND  
KLV

-----CENTERBOARD AND DRAFT-----  
ECM 0.000 CBRC 0.000 CBMC 0.000 CBTC 0.000  
WCBA 0.0 CBDA 0.000 KCDA 0.000 ECE 0.000  
WCBB 0.0 CBDB 0.000 ENDPLATE ADJ (KEDA) 0.000  
-----PROPELLER AND INSTALLATION-----  
PRD 0.413 ST1 0.037 ST4 0.115 ST5 0.270 EDL 2.520

PIPA 0.0032 ST4MAX 0.103  
-----FLOTATION DATA-----  
FFPS 1.242 AFPS 0.989 SFFP 0.303 SAFF 8.732  
FFM 1.173 FAM 0.932 FFPV 0.000 AFPV 0.000  
FF 1.180 FA 0.936 SG 1.005

-----STABILITY DATA-----  
W1 57.400 PD1 578.100 PLM 9000.000 PL 4500.000  
W2 57.400 PD2 571.300 GSA 1.000 RSA 1.0  
W3 57.400 PD3 552.200 SMB 6.224 WD 9.340  
W4 57.400 PD4 574.700 RM 74.2 RMC 74.2  
RM2 81.6 RM20 71.8 RM40 54.7 RM60 34.6  
RM90 9.4 WBV 0.0 CREW ARM (CRA) 1.583  
CALCULATED LIMIT OF POSITIVE STABILITY: 103.6 DEGREES  
RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 1.199

MAX PURJELUKUMÄÄRÄT  
IMS-MÄÄRÄYKSET 205  
-----  
Genoat LPG > 110 % 3  
Fokat LPG < 110 % 2  
Spinaakkerit 3  
+1 staysail+allaolevat

----- LIMITS AND REGULATIONS -----  
Limit of Positive Stability: MEETS REQ Measurement Inventory: 09/MAY/07  
Minimum Displacem't 2556kg: MEETS REQ Accom Lgth: RACE= 0.0 C/R= 0.0  
Maximum Crew Weight: 550 kg. Accom Certificate: C/R DA= 0.60%  
Stability Index: 102.9 Plan Approval: NONE FILED  
C/R HeavyItems Pitch Adjustm't 0.00000 Anchor(s) Weight: 0 Dist: 0.00  
Applied Age Allowance: 0.58%

-----HYDROSTATICS-----MEASUREMENT TRIM--SAILING TRIM-  
KEEL DRAFT (DHK0) 1.941 (DHKA) 1.984  
2ND MOMENT LENGTH (LSM0) 9.075 (LSM1) 9.413  
DISPLACEMENT (WEIGHT) (DSPM) 3998 (DSPS) 4732  
WETTED SURFACE (WSM) 21.08 (WSS) 22.51  
VCG FROM OFFSETS DATUM (For CLUB RM) (VCGD) 0.295  
VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) 0.238  
INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 2.638  
MAXIMUM SECTION AREA (AMS1) 0.894  
BEAM/DEPTH RATIO (BTR) 4.763  
EFFECTIVE DRAFT (D) 1.734  
2° HEEL (LSM2) 9.413 25° HEEL (LSM3) 9.370  
SUNK (LSM4) 10.034 AVG LENGTH (L) 9.218  
TRIM: 1mm/7.848m-kg SINK: 1mm/16.314kg  
-----SAIL AREAS:-----  
MAIN+FORE+MIZ'N: 47.11 MAIN: 25.43 MIZ'N: 0.00  
GENOA: 32.36 SYM: 71.31 ASYM: 0.00

TURVAMÄÄRÄYSTEN MUKAISTEN  
PURJEIDEN MAX PINTA-ALAT  
-----  
Kovantuulen fokka 20.7  
Myrskyfokka JL 8.05 7.7  
Myrskyisopurje 7.6  
-----  
ISONPURJEEN (MAX) LEVEYDEET  
-----  
HBL 0.155  
MGTL 0.85 MGML 2.52  
MGUL 1.47 MGML 3.49  
-----  
SPINAAKKERIN (MAX) MITAT  
-----  
MSL 12.20 MSMW 6.30  
-----  
OLETUSPAINOT ELLEI MITATTU

NOTE TO OWNER: The range available to revise crew weight is 356- 657 kg.  
----- TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE -----  
(NOT WIND-AVERAGED)  
Wind Velocity: 6kt 8kt 10kt 12kt 14kt 16kt 20kt CHECKSUM  
BEAT ANGLES: 44.5° 43.1° 41.5° 39.8° 38.7° 38.1° 37.9° ( 283.6)  
BEAT VMG: 1144.1 930.3 838.0 793.3 766.9 751.4 741.5 (5965.5)  
52°: 732.2 610.3 564.9 543.8 528.1 519.4 513.8 (4012.5)  
R 60°: 681.7 582.1 540.8 516.3 507.6 502.9 498.9 (3830.3)  
E 75°: 644.0 562.4 517.5 498.8 490.2 485.3 478.5 (3676.7)  
A 90°: 636.9 549.9 505.6 491.3 483.7 474.2 455.2 (3596.8)  
C 110°: 660.2 564.2 512.4 491.9 472.9 452.6 432.3 (3586.5)  
H 120°: 706.1 584.6 528.2 497.8 479.4 455.2 418.1 (3669.4)  
135°: 818.7 646.5 566.8 517.8 495.1 476.5 430.8 (3952.2)  
150°: 977.8 757.9 631.5 564.8 519.2 496.4 455.5 (4403.1)  
RUN VMG: 1129.1 875.1 728.0 634.6 575.6 531.8 487.8 (4962.0)  
GYBE ANGLES: 143.9° 147.0° 152.9° 163.1° 171.1° 170.3° 176.8° (1125.1)

-----FORETRIANGLE-----MAIN & SPARS-----  
J 3.500 FSP 0.062  
IG 12.302 LPG 5.23 HB 0.130 TH NO  
MW 0.170 LP 5.29 MGT 0.78 TL 0.730  
GO 0.195 JL 12.05 MGU 1.41 MDT1 0.115  
ISP 12.352 JGT 0.00 MGM 2.42 MDL1 0.170  
IM 12.391 JGU 0.00 MGL 3.25 MDT2 0.110  
HBI 1.001 JGM 0.00 MSW 8.8 MDL2 0.135  
SFJ 0.050 JGL 0.00 P 11.190 MWT 111.0  
SPL 3.500 TPS 0.000 E 3.880 MCG 4.029  
SL 12.02 ASL 0.000 EC 3.880 BD 0.130  
SMW 6.28 AMG 0.000 BAS 1.732 CPW 2.070  
SF 6.08 ASF 0.000 SPS 1.822 BAL 0.190

Miehistö 547  
-----  
Masto+Riki 72.44  
M+R painopiste 3.33  
-----  
MITTAUSPÄÄLLIKKÖ  
-----  
Timo Sarainmaa  
Puimalankuja 4 C 15  
20720 TURKU FINLAND  
Puh. 0400 327 328  
Faksi (02) 276 2660  
timo@sarainmaa.fi  
www.avomeripurjehtijat.fi

NOTE: To convert any time allowance above to speed in knots: Kt = 3600/TA  
----- TIME ALLOWANCES FOR SELECTED COURSES (AFTER WIND-AVERAGING) -----  
Wnd/Lwd VMG 1156.4 919.2 794.9 723.5 678.9 649.0 622.4 (5544.3)  
CircularRandom 931.6 750.0 653.1 597.5 563.7 542.0 515.2 (4553.1)  
Ocean for PCS 1052.8 824.3 695.3 615.7 563.0 525.9 474.9 (4751.9)  
Non-Spinnaker 1003.7 799.9 689.0 624.0 584.3 559.0 529.9 (4789.8)

-----MIZZEN-----  
IY 0.000 PY 0.000 HBY 0.000 TLY 0.000  
EB 0.000 EY 0.000 MGTY 0.000 MDT1Y 0.000  
YSD 0.000 ECY 0.000 MGUY 0.000 MDL1Y 0.000  
YSF 0.000 BASY 0.000 MGYM 0.000 MDT2Y 0.000  
YSMG 0.000 BALY 0.000 MGLY 0.000 MDL2Y 0.000  
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HBIY 0.000 BDY 0.000

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----- SIMPLIFIED SCORING OPTIONS -----

	Time-on-Distance		Time-on-Time		Performance Line		
	(sec/mi)	TMF	PLT	PLD	PLT	PLD	
OFFSHORE	673.7 (=GPH)	0.8906 (=600/GPH)	0.704	70.1 (Ocean)			
INSHORE	755.4 (=ILC)	0.8936 (=675/ILC)	0.965	323.0 (Olympic)			
Performance Line Corrected Time = (PLT x Elapsed Time)-(PLD x Distance)							
----- TRI-NUMBER TMFS BY WIND RANGE -----							
WINDWARD	Low	Medium	High	CIRCULAR	Low	Medium	High
	/LEEWARD	0.6620	0.9097		1.0565	RANDOM	0.8710