

IMS RATING CERTIFICATE No. 11800
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: 10/AUG/07 17:33:53
Cert No 11800 10 NOR11800.DAT 30/JUL/07 16:55:50
OFF Meas'd: 16/MAY/05 GS37BCK2.OFF 28/MAY/05 13:43:40

NOT VALID AFTER 12/31/2007

GPH
620.2

YACHT DESCRIPTION
Name: XTREME
Sail No: NOR 11800
Class: GS 37
LOA: 11.310m Beam(MB) 3.670m
Designer: BOTIN&CAREEK
Builder: CANTIERE DEL PARDO
Rig: FRACTIONAL SLOOP 106% Jib
Keel/CB: FIXED KEEL
PropInst: STRUT DRIVE FOLDING
FwdAccom: YES Spin: SYMMETRIC
HullCnst: HVYCORE RudCnst: STNDRD
Forestay: ADJST AFT BoomMtl: HEAVY
Spreadrs: 2 Sets InrFsty: NONE
Runners: NONE Jumpers: NONE
Dates: AGE:1/2005 SERIES : 5/2005
COMMENTS

RATING OFFICE:
Issued: Norwegian Offshore Club
10/AUG/07 Per Boymo
Measured: boeymo@online.no
22/JUN/05 +4792226418
Revalidation Authority: N.O.R.C
Measurer: LINDQVIST
"I CERTIFY THAT I UNDERSTAND MY
RESPONSIBILITIES UNDER THE IMS."
OWNER:.....
ERIK KRISTIANSEN

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 0.460 ST1 0.062 ST4 0.106 ST5 0.300 EDL 2.170

PIPA 0.0038 ST4MAX 0.106
FLOTATION DATA
FFPS 1.431 AFPS 1.192 SFFP 0.254 SAFFP 10.708
FFM 1.404 FAM 1.047 FFPV 0.000 AFPV 0.000
FF 1.412 FA 1.053 SG 1.005

STABILITY DATA
W1 23.900 PD1 128.100 PLM 9000.000 PL 4500.000
W2 47.940 PD2 254.300 GSA 1.000 RSA 1.0
W3 71.440 PD3 380.600 SMB 7.179 WD 10.988
W4 91.840 PD4 488.100 RM 162.8 RMC 162.8
RM2 167.6 RM20 149.9 RM40 116.2 RM60 76.8
RM90 26.2 WBV 0.0 CREW ARM (CRA) 1.801
CALCULATED LIMIT OF POSITIVE STABILITY: 110.1 DEGREES
RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 1.892

LIMITS AND REGULATIONS
Limit of Positive Stability: MEETS REQ Measurement Inventory: 01/JUN/05
Minimum Displacem't 3349kg: MEETS REQ Accom Lgth: RACE= 11.3 C/R= 11.3
Maximum Crew Weight: 675 kg. Accom Certificate: C/R DA= 0.59%
Stability Index: 113.4 Plan Approval: NONE FILED
C/R HeavyItems Pitch Adjustm't 0.00000 Anchor(s) Weight: 0 Dist: 0.00
Applied Age Allowance: 0.13%

NOTE TO OWNER: The range available to revise crew weight is 480- 885 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:	43.6°	42.9°	41.2°	39.0°	37.8°	37.2°	37.1°	(278.8)
BEAT VMG:	1063.9	873.5	768.8	725.5	700.2	685.0	673.2	(5490.1)
52°:	689.5	569.0	521.3	499.1	487.0	479.6	473.2	(3718.7)
R 60°:	645.3	543.2	500.7	478.0	468.4	462.5	456.7	(3554.8)
E 75°:	608.0	523.5	480.0	461.2	447.9	441.3	433.5	(3395.4)
A 90°:	579.8	502.3	465.2	448.3	440.2	433.1	413.7	(3282.6)
C 110°:	599.0	515.2	473.6	449.1	429.1	412.7	396.0	(3274.7)
H 120°:	642.4	535.0	487.1	457.8	436.8	416.0	383.3	(3358.4)
135°:	741.3	593.3	521.6	481.1	455.6	435.9	396.9	(3625.7)
150°:	889.0	699.3	583.8	522.2	483.7	458.4	420.4	(4056.8)
RUN VMG:	1026.5	807.5	674.0	589.3	534.7	496.0	449.0	(4577.0)
GYBE ANGLES:	142.4°	147.9°	150.1°	162.2°	169.8°	172.7°	176.1°	(1121.2)

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	1064.6	852.3	733.7	666.1	624.7	597.2	567.0	(5105.6)
CircularRandom	858.0	691.1	601.4	549.4	517.6	496.7	470.7		(4184.9)
Ocean for PCS	969.4	758.9	639.7	565.8	516.7	482.0	434.4		(4366.9)
Non-Spinnaker	934.6	744.3	640.0	578.4	539.9	515.0	484.8		(4437.0)

SIMPLIFIED SCORING OPTIONS

	Time-on-Distance (sec/mi)			Time-on-Time TMF		Performance Line		
	Low	Medium	High	(=600/GPH)	(=675/ILC)	PLT	PLD	
OFFSHORE	620.2 (=GPH)			0.9674		0.758	65.5	(Ocean)
INSHORE	693.2 (=ILC)			0.9737		1.003	293.0	(Olympic)
Performance Line Corrected Time = (PLT x Elapsed Time) - (PLD x Distance)								
TRI-NUMBER TMFS BY WIND RANGE								
WINDWARD /LEEWARD	Low	Medium	High	CIRCULAR			RANDOM	
	0.7159	0.9868	1.1515			0.9432	1.2318	1.3856

HYDROSTATICS—MEASUREMENT TRIM—SAILING TRIM—
KEEL DRAFT (DHK0) 2.457 (DHKA) 2.497
2ND MOMENT LENGTH (LSM0) 10.165 (LSM1) 10.474
DISPLACEMENT (WEIGHT) (DSPM) 7076 (DSPS) 8000
WETTED SURFACE (WSM) 28.56 (WSS) 29.99
VCG FROM OFFSETS DATUM (For CLUB RM) (VCGD) 0.233
VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) 0.146
INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 3.287
MAXIMUM SECTION AREA (AMS1) 1.468
BEAM/DEPTH RATIO (BTR) 4.937
EFFECTIVE DRAFT (D) 2.188
2° HEEL (LSM2) 10.487 25° HEEL (LSM3) 10.732
SUNK (LSM4) 11.873 AVG LENGTH (L) 10.487
TRIM: 1mm/11.818m-kg SINK: 1mm/22.326kg
SAIL AREAS: J03
MAIN+FORE+MIZ'N: 75.93 MAIN: 45.24 MIZ'N: 0.00
GENOA: 35.30 SYM: 104.80 ASYM: 0.00
FORETRIANGLE—MAIN & SPARS

J	4.100	FSP	0.066				
IG	14.889	LPG	4.32	HB	0.200	TH	NO
MW	0.202	LP	4.39	MGT	1.11	TL	0.790
GO	0.224	JL	14.96	MGU	1.99	MDT1	0.110
ISP	14.929	JGT	0.65	MGM	3.39	MDL1	0.202
IM	14.969	JGU	1.26	MGL	4.42	MDT2	0.110
HBI	1.162	JGM	2.41	MSW	18.2	MDL2	0.163
SFJ	0.230	JGL	3.52	P	14.440	MWT	170.5
SPL	4.210	TPS	0.000	E	5.250	MCG	5.470
SL	14.71	ASL		EC	5.250	BD	0.160
SMW	7.58	AMG		BAS	1.619	CPW	2.550
SF	7.58	ASF		SPS	2.700	BAL	0.000

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 0.00 ECY 0.000 MGUY 0.000 MDL1Y 0.000
YSF 0.00 BASY 0.000 MGYM 0.000 MDT2Y 0.000
YSMG 0.00 BALY 0.000 MGLY 0.000 MDL2Y 0.000
HBIY 0.000 BDY 0.000