



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6460**
Issued On **05/06/2020**
ORC Ref **5341000020L**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 613kg
Maximum **748kg**
Minimum* **561kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	641.1	0.9359
Non Spin OSN	623.9	0.9616

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** 93.85
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

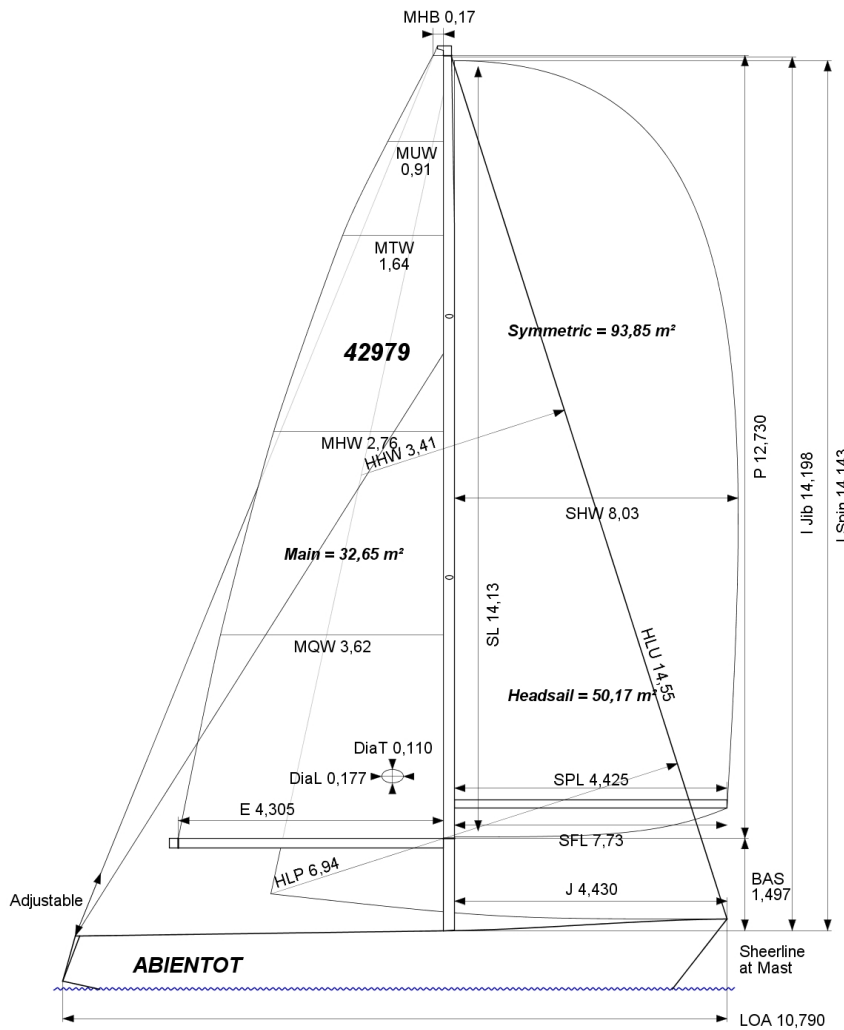
Class Division Length

CDL = 9.189

Stability (Estimated)

Limit Positive Stab.: **110.4°**
Stability Index: **107.8**

Owner



BOAT		GPH	HULL			
Name ABIENTOT Sail Nr 42979		618.2	Data File US6460	LOA 10.790m		
			Offset File US17521.OFF	MB 3.640m		
			Displacement 4,869kg	Draft 2.129m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.000%		
Class J-35			Plan Review	Construction Cored		
Designer R. Johnstone			Fiber Rigging No	Aramid Core No		
Builder Tillotson-Pearson			Crew Arm Ex	Carbon Rudder No		
Series 01/1987				Light Stanchions No		
Age Date 01/1987			IMSL 9.211m	VCGD 0.007m	Sink 17.71kg/mm	
Age Allowance 0.487%			RL 9.165m	VCGM 0.018m	WS 23.85m²	
COMMENTS			LSM0 9.215m	Displacement/Length ratio 6.2223		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			BILGEBOARD			
Installation Shaft exposed	PRD 0.457		BS	BT	BA	
Type Folding 2 blades	PBW 0.011		BF	BX		
	PIPA 0.0030		BC	BY		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	601.5			665.5		
Time on Time	0.9975			1.0143		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	699.0	550.6	493.7	898.0	668.4	583.6
Time on Time	0.9657	1.2259	1.3673	0.7517	1.0098	1.1567

2020

ORC Club Certificate Appendix

BOAT			
Name	ABIENTOT	Certificate Number	US6460
Sail Nr	42979	Issued On	05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	984.7	822.7	732.8	697.5	680.5	670.3	664.6
52°	651.6	555.9	519.7	505.7	498.8	494.7	491.2
60°	617.6	538.6	509.9	495.3	487.1	481.7	476.5
75°	592.8	527.6	502.2	484.8	470.6	461.0	451.5
90°	601.3	528.2	500.9	482.0	464.3	448.6	427.9
110°	645.4	537.6	498.5	473.1	450.3	434.1	413.6
120°	662.3	547.8	503.2	476.3	450.2	427.4	395.3
135°	727.3	592.3	524.1	493.5	468.1	442.6	396.1
150°	859.8	685.8	580.8	522.3	494.3	470.9	425.1
Run VMG	992.8	791.9	670.1	592.2	538.7	505.1	459.4
Selected Courses							
Windward / Leeward	988.8	807.3	701.5	644.9	609.6	587.7	562.0
Circular Random	842.1	684.1	600.4	552.2	522.5	502.8	477.0
Coastal / Long Distance	989.2	760.9	637.7	570.4	533.7	504.3	458.4
Non Spinnaker	881.8	712.7	622.1	569.4	536.8	515.1	486.8

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.0°	41.3°	39.0°	37.5°	36.6°	36.0°	35.6°
Beat VMG	3.66	4.38	4.91	5.16	5.29	5.37	5.42
52°	5.52	6.48	6.93	7.12	7.22	7.28	7.33
60°	5.83	6.68	7.06	7.27	7.39	7.47	7.56
75°	6.07	6.82	7.17	7.43	7.65	7.81	7.97
90°	5.99	6.82	7.19	7.47	7.75	8.02	8.41
110°	5.58	6.70	7.22	7.61	7.99	8.29	8.70
120°	5.44	6.57	7.15	7.56	8.00	8.42	9.11
135°	4.95	6.08	6.87	7.30	7.69	8.13	9.09
150°	4.19	5.25	6.20	6.89	7.28	7.65	8.47
Run VMG	3.63	4.55	5.37	6.08	6.68	7.13	7.84
Gybe Angles	145.5°	150.0°	150.8°	158.0°	180.0°	180.0°	180.0°