



ORC

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2020 ORC Club Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **01275**
Issued On **03/07/2020**
ORC Ref **03420000LW6**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	538kg
Maximum	400kg
Minimum*	300kg

*when applied by the NoR and SI

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	748.3	0.8018
Non Spin OSN	723.2	0.8297

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes** **54.66**
Flying H/S: **No**
Spin. Pole: **No**

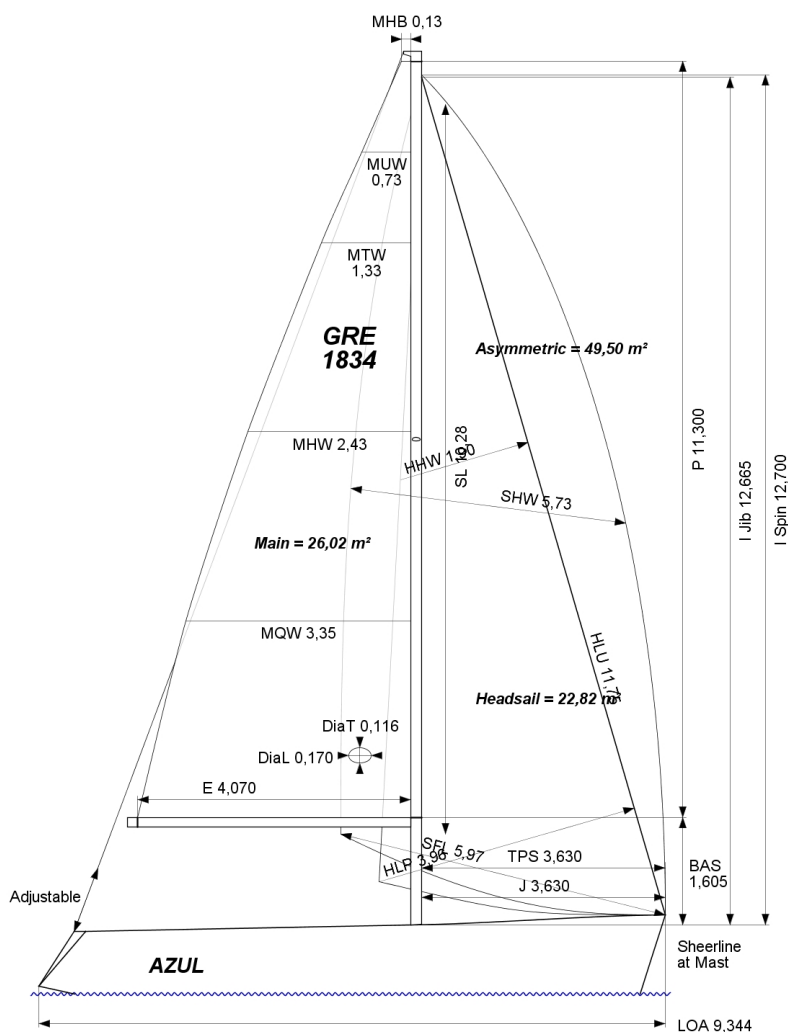
Class Division Length

CDL = 7.323

Stability (Estimated)

Limit Positive Stab.: **118.0°**
Stability Index: **117.7**

Owner



BOAT		GPH		HULL	
Name	AZUL	717.5	Data File	GR1834	LOA 9.344m
Sail Nr	GRE-1834		Offset File	F066.OFF	MB 3.278m
			Displacement	4,400kg	Draft 1.476m
CLASS			IMS Division	Cruiser/Racer	Dynamic All. 0.341%
Class	SUN ODYSSEY 32.1		Plan Review		Construction Solid
Designer	Briand		Fiber Rigging	No	Aramid Core No
Builder	JEANNEAU		Crew Arm Ex		Carbon Rudder No
Series	11/1993				Light Stanchions No
Age Date	01/2002		IMSL	8.473m	VCGD -0.059m Sink 15.12kg/mm
Age Allowance	0.487%		RL	6.172m	VCGM 0.000m WS 20.29m²
COMMENTS			LSM0	8.415m	Displacement/Length ratio 7.3840
Builder's displacement.			Water Ballast	0	Trim Tab No
			BLR Index	0.0000	
PROPELLER			CENTERBOARD		
Installation	Shaft exposed	PRD 0.372			
Type	Solid 3 blades	PBW 0.140	N/A		
		PIPA 0.0087			

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	697.9			787.2		
Time on Time	0.8597			0.8574		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	832.2	633.2	560.2	1083.6	796.4	682.6
Time on Time	0.8111	1.0660	1.2050	0.6229	0.8476	0.9889

BOAT										INCLINING TEST AND FREEBOARDS									
Name AZUL					Sail Nr GRE-1834					Inclining Test Club Estimated VCG									
File GR1834					Data in meters/kilograms					Flotation date 04/03/2018 SG 1.0262									
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										FFM 1.169 FF 1.169 SFFP 0.459 FAM 0.933 FA 0.933 SAFF 8.645 LCF from stem on CL / on sheer 5.158 / 5.395 Maximum beam station from stem 6.250 RM Measured 86.3kg-m RM Default 83.8kg-m Limit of positive stability / Stab.Index 118.0° / 117.7 Freeboard at mast at 3.630 1.036									
P 11.300 E 4.070 MDT1 0.116 MW IG 12.665 J 3.630 MDL1 0.170 GO ISP 12.700 SFJ 0.000 MDT2 BD BAS 1.605 SPL MDL2 MWT FSD 0.030 TPS 3.630 TL -3.000 MCG																			
MIZZEN RIG AND SAILS N/A										PROPELLER Installation Shaft exposed PRD 0.372 Type Solid 3 blades PBW 0.140 Twin Screw No PIPA 0.0087 PSA 29.000 PHL 0.032 ST3 0.080 ESL 0.062 PSD 0.025 ST1 0.023 ST4 0.037 PHD 0.039 ST2 0.072 ST5 0.195									
COMMENTS Builder's displacement.										MOVABLE BALLAST N/A									
										CENTERBOARD N/A									
SAILS INVENTORY																			
MAINSAIL (1)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
M1	0.13	0.73	1.33	2.43	3.35	26.02		25/03/2018		Dacron									
HEADSAILS (1)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
G1	0.05	0.48	0.93	1.90	2.92	3.96	11.75	109%	22.82		No		25/03/2018	KAKITSIS	Dacron				
SYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
ASYMMETRIC SPINNAKERS (1)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							
A1	10.86	9.70	10.28	5.73	5.97	49.50	asym		14/03/2011		Unknown								
MEASUREMENT INVENTORY																			
Measurer GRE-28 Date 04/03/2018 Comment Internal Ballast total = 0.0										MEASUREMENT INVENTORY									
Id	Item	Weight	Distance	VCG	Description	Id	Item	Weight	Distance	VCG	Description								
Id	Item	Maker	Model																
E	Engine	YANMAR	2GM20F																
Id	Item	Weight	Description																
WT	Tank	WATER	PLASTIC	170.0	2.00	0.00	BENETEAU 170 L												
DT	Tank	DIESEL	PLASTIC	70.0	7.65	0.14													
B1	Misc	60.0	7.03	-0.30	2 BATTERIES 85 Ah														
B2	Misc	33.0	7.03	-0.30	1 BATTERY 100Ah														
SP	Misc	8.50	2.50	SOLAR PANEL LUXOR LX100M ON FRAME															



2020
Measurements
Datasheet



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2020

ORC Club Certificate Appendix

BOAT			
Name	AZUL	Certificate Number	01275
Sail Nr	GRE-1834	Issued On	03/07/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1275.2	1053.4	932.1	850.0	807.6	795.3	804.0	
52°	814.1	687.1	611.2	569.5	550.4	542.7	541.4	
60°	761.5	647.1	582.0	551.0	534.9	525.9	522.0	
75°	727.3	616.7	561.8	536.9	520.8	508.5	492.9	
90°	719.1	598.0	543.1	518.6	503.7	495.8	473.5	
110°	715.4	591.3	539.0	513.2	491.1	470.0	442.1	
120°	742.2	610.5	546.9	518.5	495.9	473.2	433.4	
135°	824.8	670.6	578.7	536.5	512.2	490.3	448.3	
150°	968.1	769.2	657.1	587.8	549.9	527.2	491.8	
Run VMG	1117.9	888.2	758.8	678.7	623.4	569.1	518.1	
Selected Courses								
Windward / Leeward	1196.5	970.8	845.4	764.4	715.5	682.2	661.0	
Circular Random	996.4	801.3	695.7	633.7	595.7	571.7	545.4	
Coastal / Long Distance	1188.7	907.9	754.2	657.3	605.6	569.2	514.9	
Non Spinnaker	1058.1	842.9	724.3	653.8	610.4	583.4	554.7	

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	45.8°	43.5°	42.8°	42.8°	41.8°	41.6°	42.4°	
Beat VMG	2.82	3.42	3.86	4.24	4.46	4.53	4.48	
52°	4.42	5.24	5.89	6.32	6.54	6.63	6.65	
60°	4.73	5.56	6.19	6.53	6.73	6.85	6.90	
75°	4.95	5.84	6.41	6.71	6.91	7.08	7.30	
90°	5.01	6.02	6.63	6.94	7.15	7.26	7.60	
110°	5.03	6.09	6.68	7.01	7.33	7.66	8.14	
120°	4.85	5.90	6.58	6.94	7.26	7.61	8.31	
135°	4.36	5.37	6.22	6.71	7.03	7.34	8.03	
150°	3.72	4.68	5.48	6.12	6.55	6.83	7.32	
Run VMG	3.22	4.05	4.74	5.30	5.77	6.33	6.95	
Gybe Angles	146.0°	147.0°	146.5°	148.0°	175.0°	179.5°	180.0°	