



ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **066/20**
Issued On **02/10/2020**
ORC Ref **02920000RD1**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 615kg
Maximum **670kg**
Minimum* **503kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	642.2	0.9343
Non Spin OSN	622.4	0.9639

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 106.74**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

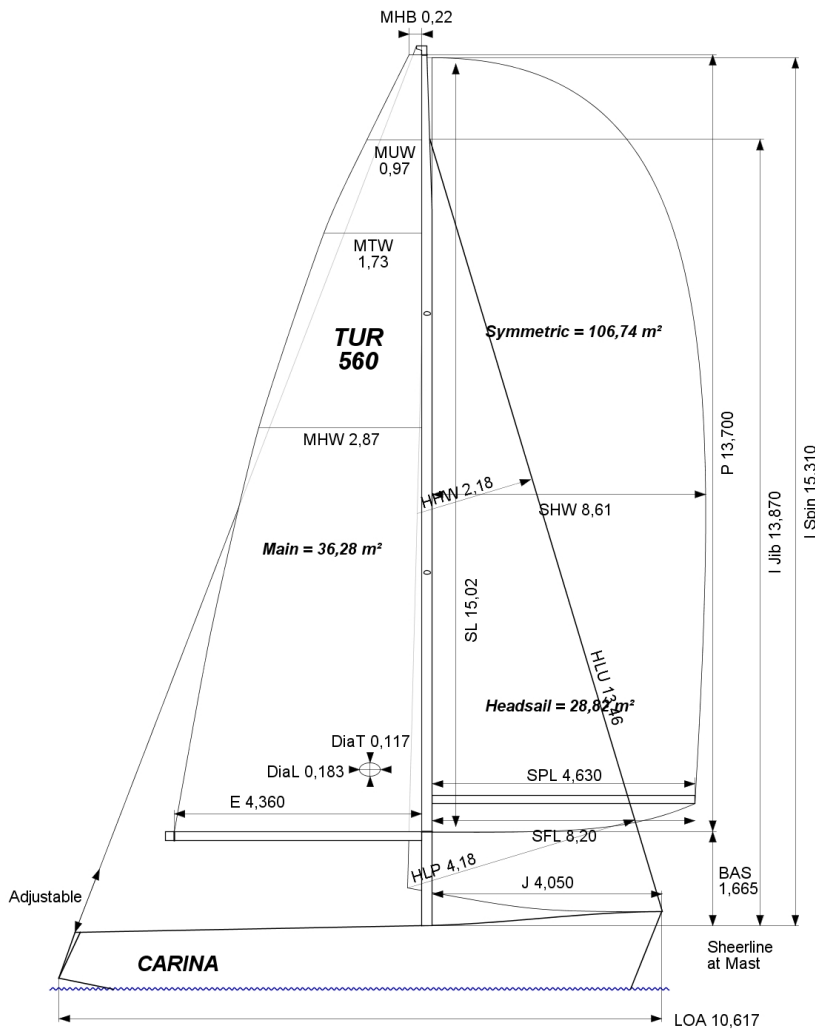
Class Division Length

CDL = 9.433

Stability (Estimated)

Limit Positive Stab.: **120.3°**
Stability Index: **116.7**

Owner



BOAT	GPH	HULL
Name CARINA Sail Nr TUR-560	599.6	Data File TUR560 LOA 10.617m Offset File F234.OFF MB 3.594m Displacement 4,393kg Draft 2.150m
CLASS Class A-35 Designer Nivelt Builder Arhambault Series 11/2005 Age Date 01/2006 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.145% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.591m VCGD -0.074m Sink 17.43kg/mm RL 9.287m VCGM -0.015m WS 22.72m² LSM0 9.244m Displacement/Length ratio 5.5614
PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PIPA 0.0034		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	582.0	648.9
Time on Time	1.0309	1.0402
Triple Number	Low Medium High	Low Medium High
Time on Distance	684.4 532.0 472.9	880.7 650.2 568.0
Time on Time	0.9863 1.2688 1.4273	0.7664 1.0382 1.1883

2020

ORC Club Certificate Appendix

BOAT	
Name CARINA	Certificate Number 066/20
Sail Nr TUR-560	Issued On 02/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1020.6	841.6	738.5	692.9	677.9	672.1	659.4
52°	668.3	562.9	512.5	492.9	485.6	482.2	476.5
60°	631.4	539.0	499.9	481.3	471.5	467.1	462.6
75°	606.2	522.8	490.5	470.2	453.6	441.9	433.3
90°	611.9	515.2	486.5	468.7	448.9	429.5	402.0
110°	598.7	505.0	469.4	444.7	428.8	414.4	387.6
120°	613.4	511.7	472.9	442.2	413.4	395.3	367.0
135°	676.6	548.5	492.0	461.1	431.1	401.8	338.0
150°	799.5	639.0	542.0	492.2	463.6	435.9	380.3
Run VMG	923.2	737.8	625.3	557.6	511.0	478.5	426.8
Selected Courses							
Windward / Leeward	971.9	789.7	681.9	625.3	594.4	575.3	543.1
Circular Random	823.2	665.8	581.9	533.3	502.9	482.0	451.8
Coastal / Long Distance	967.0	742.0	618.4	550.7	513.9	484.6	434.5
Non Spinnaker	900.7	720.3	622.0	564.1	527.9	503.7	472.1

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	42.8°	41.3°	39.8°	38.3°	37.9°	37.5°	37.5°
Beat VMG	3.53	4.28	4.87	5.20	5.31	5.36	5.46
52°	5.39	6.40	7.02	7.30	7.41	7.47	7.55
60°	5.70	6.68	7.20	7.48	7.63	7.71	7.78
75°	5.94	6.89	7.34	7.66	7.94	8.15	8.31
90°	5.88	6.99	7.40	7.68	8.02	8.38	8.96
110°	6.01	7.13	7.67	8.09	8.40	8.69	9.29
120°	5.87	7.04	7.61	8.14	8.71	9.11	9.81
135°	5.32	6.56	7.32	7.81	8.35	8.96	10.65
150°	4.50	5.63	6.64	7.31	7.77	8.26	9.46
Run VMG	3.90	4.88	5.76	6.46	7.05	7.52	8.43
Gybe Angles	142.0°	147.5°	151.0°	158.0°	180.0°	180.0°	180.0°