



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6058**
Issued On **11/01/2021**
ORC Ref **03410000TM2**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

Crew Weight

Default 765kg
Maximum **765kg**
Minimum* **574kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	612.8	0.9791
Non Spin OSN	598.3	1.0028

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 170.35**
Flying H/S: **No**
Spin. Pole: **No**

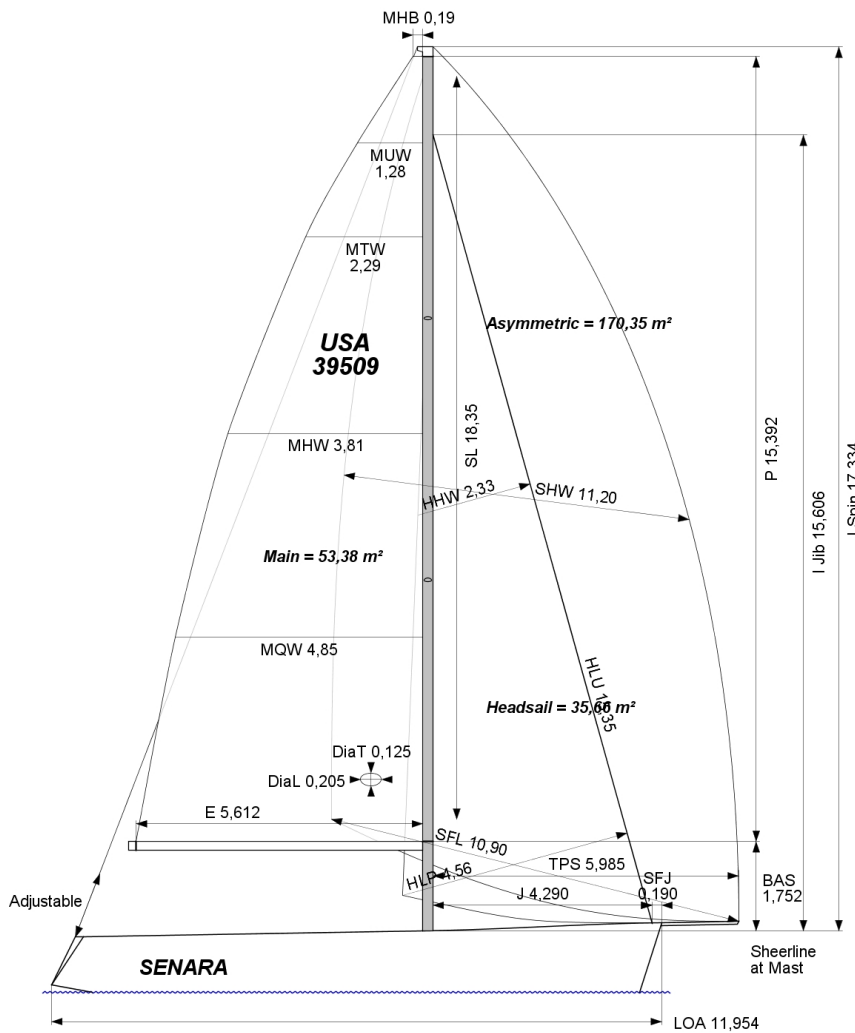
Class Division Length

CDL = 10.175

Stability (Measured)

Limit Positive Stab.: **115.9°**
Stability Index: **116.9**

Owner



BOAT		GPH	HULL			
Name Senara Sail Nr USA 39509		569.8	Data File US6058	LOA 11.954m		
			Offset File US31198c.off	MB 3.706m		
			Displacement 6,076kg	Draft 1.812m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.000%		
Class FARR 395			Plan Review	Construction Cored		
Designer FARR			Fiber Rigging No	Aramid Core No		
Builder CARROLL			Crew Arm Ex 0.00	Carbon Rudder No		
Series 08/2001				Light Stanchions No		
Age Date 05/2002			IMSL 10.920m	VCGD 0.098m	Sink 21.75kg/mm	
Age Allowance 0.487%			RL 9.441m	VCGM 0.045m	WS 28.33m²	
COMMENTS			LSM0 10.771m	Displacement/Length ratio 4.8624		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.366	N/A				
Type Folding 3 blades	PBW 0.110					
	PIPA 0.0031					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	558.4			630.4		
Time on Time	1.0746			1.0707		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	637.8	509.2	460.4	831.3	631.1	564.0
Time on Time	1.0583	1.3255	1.4662	0.8120	1.0696	1.1969

2020

ORC Club Certificate Appendix

BOAT							
Name	Senara	Certificate Number			US6058		
Sail Nr	USA 39509	Issued On			11/01/2021		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	968.6	798.9	716.6	687.2	675.0	665.8	661.6
52°	630.7	530.2	489.8	477.3	471.9	469.2	462.3
60°	593.0	507.8	475.6	463.5	457.9	454.9	446.9
75°	545.7	486.4	464.8	448.2	437.3	431.0	425.3
90°	522.9	468.8	449.5	436.9	424.9	409.9	393.9
110°	534.2	470.9	442.3	417.1	397.0	383.4	362.0
120°	559.7	477.3	444.3	417.1	395.8	373.4	340.5
135°	631.7	505.9	460.4	430.6	400.2	371.1	322.4
150°	747.8	601.2	509.0	462.7	441.3	418.8	360.4
Run VMG	863.5	694.3	587.7	533.6	509.2	474.8	416.1
Selected Courses							
Windward / Leeward	916.0	746.6	652.2	610.4	592.1	570.3	538.9
Circular Random	770.4	628.0	553.6	511.6	485.7	467.9	441.7
Coastal / Long Distance	910.8	700.0	589.0	531.4	501.1	470.6	419.4
Non Spinnaker	850.0	683.7	594.2	541.8	509.3	487.7	460.3

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	43.5°	42.0°	40.9°	39.8°	39.4°	39.0°	40.1°
Beat VMG	3.72	4.51	5.02	5.24	5.33	5.41	5.44
52°	5.71	6.79	7.35	7.54	7.63	7.67	7.79
60°	6.07	7.09	7.57	7.77	7.86	7.91	8.06
75°	6.60	7.40	7.75	8.03	8.23	8.35	8.47
90°	6.88	7.68	8.01	8.24	8.47	8.78	9.14
110°	6.74	7.65	8.14	8.63	9.07	9.39	9.94
120°	6.43	7.54	8.10	8.63	9.10	9.64	10.57
135°	5.70	7.12	7.82	8.36	9.00	9.70	11.17
150°	4.81	5.99	7.07	7.78	8.16	8.60	9.99
Run VMG	4.17	5.19	6.13	6.75	7.07	7.58	8.65
Gybe Angles	143.5°	146.5°	148.5°	152.0°	150.5°	177.0°	143.0°