



ORC

Offshore Racing Congress
World leader in rating technology

2020

ORC Club

Certificate

Rating Office									
Offshore Racing Congress									
 <i>World Leader In Rating Technology</i>									
Certificate									
Number 102121 Issued On 29/06/2020 ORC Ref 03510000LKE VPP Ver. 2020 1.02 Valid until 31/12/2020									
Crew Weight									
Default 717kg Maximum 450kg Minimum* 338kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No									
Special Scoring									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">ToD</th> <th style="text-align: right;">ToI</th> </tr> </thead> <tbody> <tr> <td>Non Spin GPH 650.9</td> <td style="text-align: right;">0.9218</td> <td></td> </tr> <tr> <td>Non Spin OSN 632.4</td> <td style="text-align: right;">0.9488</td> <td></td> </tr> </tbody> </table>		ToD	ToI	Non Spin GPH 650.9	0.9218		Non Spin OSN 632.4	0.9488	
	ToD	ToI							
Non Spin GPH 650.9	0.9218								
Non Spin OSN 632.4	0.9488								
Sails Limitations									
Headsails 1 Spinnakers 4 Woven Polyester									
Spinnaker configuration Symmetric: Yes 91.83 Asymmetric: No Flying H/S: No Spin. Pole: Yes									
Class Division Length CDL = 9.209									
Stability (Estimated) Limit Positive Stab.: 127.5° Stability Index: 128.9									
Owner									

BOAT		GPH		HULL		
Name QUO VADIS II Sail Nr ESP-10212_C		626.8		Data File E10212_C LOA 12.200m Offset File E144.OFF MB 3.902m Displacement 7,177kg Draft 1.976m		
CLASS				IMS Division Cruiser/Racer Dynamic All. 0.033%		
Class FIRST 41S5 (DK)				Plan Review Construction Solid		
Designer J. BERRET				Fiber Rigging No Aramid Core No		
Builder BENETEAU				Crew Arm Ex Carbon Rudder No		
Series 07/1988				Light Stanchions		
Age Date 06/1991				IMSL 10.116m VCGD -0.244m Sink 20.93kg/mm		
Age Allowance 0.487%				RL 8.308m VCGM -0.200m WS 28.61m²		
COMMENTS				LSM0 10.286m Displacement/Length ratio 6.5948		
				Water Ballast 0 Trim Tab No		
				BLR Index 0.0000		
PROPELLER				CENTERBOARD		
Installation Shaft exposed PRD 0.410				N/A		
Type Solid 2 blades PIPA 0.0199						
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	609.4			683.8		
Time on Time	0.9845			0.9871		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	722.6	553.4	494.4	940.5	688.4	596.3
Time on Time	0.9341	1.2197	1.3652	0.7177	0.9805	1.1319

2020

ORC Club Certificate Appendix

BOAT			
Name	QUO VADIS II	Certificate Number	102121
Sail Nr	ESP-10212_C	Issued On	29/06/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1059.7	872.3	777.8	732.6	714.3	707.3	707.0	
52°	686.3	575.4	520.0	498.7	490.9	487.2	486.3	
60°	645.8	545.2	501.9	484.2	476.1	472.0	469.5	
75°	614.8	524.3	488.9	471.5	459.1	450.4	442.7	
90°	618.4	524.2	486.2	466.6	451.3	437.5	417.4	
110°	645.5	529.4	481.8	457.8	437.3	422.0	404.0	
120°	667.6	544.5	488.1	461.6	439.7	418.9	388.4	
135°	746.6	601.6	517.4	479.2	456.0	434.0	393.1	
150°	887.6	697.4	586.2	515.3	480.1	457.8	416.7	
Run VMG	1024.9	805.2	676.6	590.3	531.0	490.1	445.9	
Selected Courses								
Windward / Leeward	1042.3	838.7	727.2	661.4	622.7	598.7	576.5	
Circular Random	867.5	698.2	607.6	555.4	523.9	503.8	480.2	
Coastal / Long Distance	1040.5	786.6	652.4	574.2	533.6	502.9	454.9	
Non Spinnaker	911.5	729.1	630.3	572.7	537.5	515.0	488.0	

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	44.3°	42.4°	42.0°	41.6°	40.9°	40.5°	41.3°	
Beat VMG	3.40	4.13	4.63	4.91	5.04	5.09	5.09	
52°	5.25	6.26	6.92	7.22	7.33	7.39	7.40	
60°	5.57	6.60	7.17	7.44	7.56	7.63	7.67	
75°	5.86	6.87	7.36	7.64	7.84	7.99	8.13	
90°	5.82	6.87	7.40	7.72	7.98	8.23	8.63	
110°	5.58	6.80	7.47	7.86	8.23	8.53	8.91	
120°	5.39	6.61	7.38	7.80	8.19	8.59	9.27	
135°	4.82	5.98	6.96	7.51	7.89	8.30	9.16	
150°	4.06	5.16	6.14	6.99	7.50	7.86	8.64	
Run VMG	3.51	4.47	5.32	6.10	6.78	7.35	8.07	
Gybe Angles	145.0°	149.0°	151.0°	155.0°	173.0°	180.0°	180.0°	