



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**  
Hellenic Sailing Federation  
Offshore Committee  
Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



**Certificate**  
Number **01993**  
Issued On **13/10/2020**  
ORC Ref **03420000RTO**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	939kg
Maximum	<b>500kg</b>
Minimum*	<b>375kg</b>

*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD	ToT
Non Spin GPH <b>633.8</b>	<b>0.9467</b>
Non Spin OSN <b>613.1</b>	<b>0.9786</b>

**Sails Limitations**

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

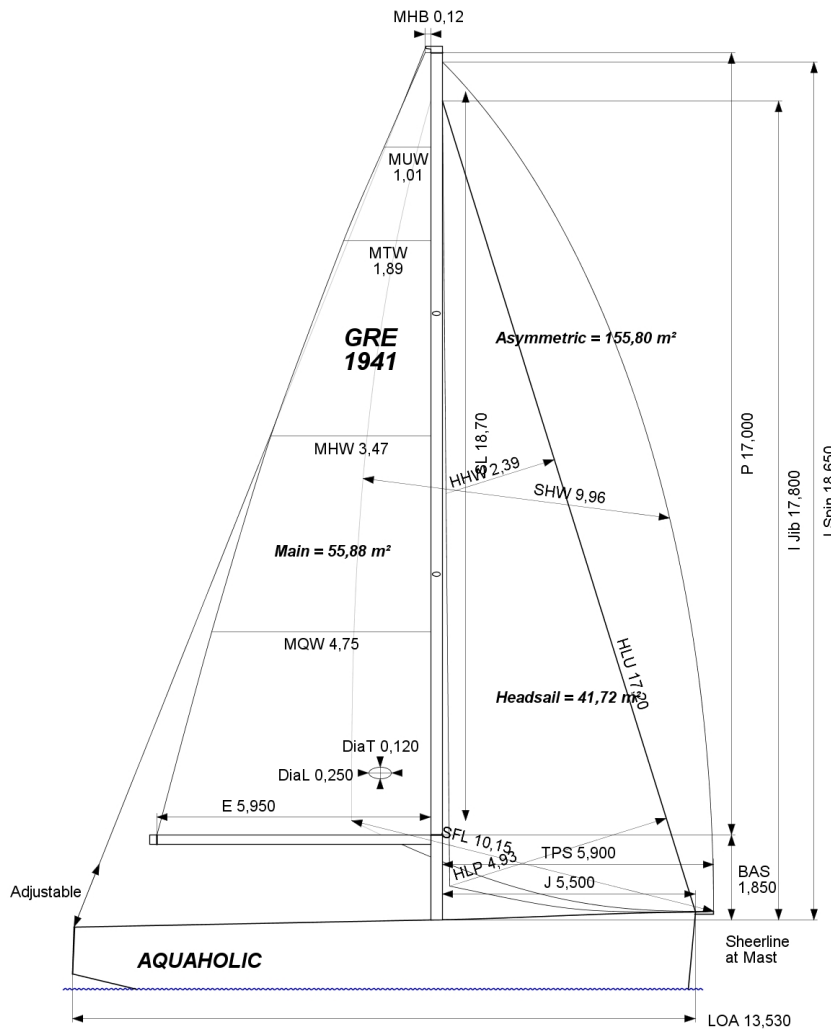
**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 155.80**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**  
CDL = **10.796**

**Stability (Estimated)**  
Limit Positive Stab.: **119.5°**  
Stability Index: **124.9**

**Owner**



<b>BOAT</b> Name <b>AQUAHOLIC</b> Sail Nr <b>GRE-1941</b>		<b>GPH</b> <b>591.3</b>	<b>HULL</b> Data File <b>GR1941</b> LOA <b>13.530m</b> Offset File <b>CLHA455MD.off</b> MB <b>4.386m</b> Displacement <b>11,700kg</b> Draft <b>2.183m</b>			
<b>CLASS</b> Class <b>HANSE 458</b> Designer <b>JUDEL/VROELIJK</b> Builder <b>HANSE YACHTS</b> Series <b>10/2019</b> Age Date <b>01/2020</b> Age Allowance <b>0.033%</b>			IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.251%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>			
<b>COMMENTS</b> Builder's displacement.			IMSL <b>12.370m</b> VCGD <b>0.039m</b> Sink <b>31.27kg/mm</b> RL <b>9.220m</b> VCGM <b>0.082m</b> WS <b>40.35m²</b> LSM0 <b>12.433m</b> Displacement/Length ratio <b>6.0878</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>			
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.450</b> Type <b>Folding 3 blades</b> PIPA <b>0.0008</b>			<b>CENTERBOARD</b> <b>NA</b>			
<b>SCORING OPTIONS</b>						
Time on Distance	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
	<b>573.3</b>			<b>649.7</b>		
Time on Time	<b>1.0465</b>			<b>1.0390</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>692.4</b>	<b>519.4</b>	<b>459.1</b>	<b>902.2</b>	<b>653.4</b>	<b>562.1</b>
Time on Time	<b>0.9748</b>	<b>1.2997</b>	<b>1.4702</b>	<b>0.7482</b>	<b>1.0331</b>	<b>1.2009</b>

<b>BOAT</b>	
Name <b>AQUAHOLIC</b>	Sail Nr <b>GRE-1941</b>
File <b>GR1941</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>Yes</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>17.000</b>	E <b>5.950</b> MDT1 <b>0.120</b> MW
IG <b>17.800</b>	J <b>5.500</b> MDL1 <b>0.250</b> GO
ISP <b>18.650</b>	SFJ <b>0.000</b> MDT2 <b></b> BD
BAS <b>1.850</b>	SPL <b></b> MDL2 <b></b> MWT
FSD <b>-3.000</b>	TPS <b>5.900</b> TL <b>-3.000</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>28/04/2020</b>	SG
FFM <b>1.673</b>	SFFP <b>0.430</b>
FAM <b>1.342</b>	SAFP <b>13.480</b>
LCF from stem on CL / on sheer	<b>7.168 / 7.457</b>
Maximum beam station from stem	<b>8.900</b>
RM Measured	<b>344.3kg-m</b>
RM Default	<b>334.3kg-m</b>
Limit of positive stability / Stab.Index	<b>119.5° / 124.9</b>
Freeboard at mast at 5.500	<b>1.504</b>



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**2020**  
Measurements  
Datasheet

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>	
Installation <b>Strut</b>	PRD <b>0.450</b>
Type <b>Folding 3 blades</b>	PBW
Twin Screw <b>No</b>	PIPA <b>0.0008</b>
ST1	ST3
ST2	ST4
	ST5
	EDL

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<b>COMMENTS</b>	
Builder's displacement.	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.12	1.01	1.89	3.47	4.75	55.88		28/04/2020	ELVSTROM	Polyester						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.59	1.16	2.39	3.65	4.93	17.20	90%	41.72		No		28/04/2020	ELVSTROM	Dacron	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	19.75	17.65	18.70	9.96	10.15	155.81	asym		28/04/2020	QUANTUM	Nylon	BLACK				

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>AQUAHOLIC</b>	Certificate Number	<b>01993</b>
Sail Nr	<b>GRE-1941</b>	Issued On	<b>13/10/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1074.7</b>	<b>875.9</b>	<b>764.8</b>	<b>695.4</b>	<b>662.2</b>	<b>650.8</b>	<b>645.4</b>
52°	<b>690.0</b>	<b>575.7</b>	<b>506.6</b>	<b>468.1</b>	<b>450.7</b>	<b>444.5</b>	<b>441.9</b>
60°	<b>646.5</b>	<b>544.7</b>	<b>483.3</b>	<b>452.2</b>	<b>437.4</b>	<b>430.2</b>	<b>426.6</b>
75°	<b>614.5</b>	<b>520.3</b>	<b>466.9</b>	<b>441.3</b>	<b>426.4</b>	<b>415.9</b>	<b>404.5</b>
90°	<b>601.4</b>	<b>495.8</b>	<b>446.4</b>	<b>429.8</b>	<b>421.9</b>	<b>410.8</b>	<b>388.1</b>
110°	<b>591.1</b>	<b>485.7</b>	<b>438.3</b>	<b>416.0</b>	<b>398.8</b>	<b>388.0</b>	<b>371.1</b>
120°	<b>606.0</b>	<b>497.7</b>	<b>444.8</b>	<b>419.9</b>	<b>400.0</b>	<b>380.5</b>	<b>354.6</b>
135°	<b>674.1</b>	<b>546.5</b>	<b>472.1</b>	<b>436.3</b>	<b>415.1</b>	<b>395.4</b>	<b>357.5</b>
150°	<b>799.8</b>	<b>636.1</b>	<b>539.4</b>	<b>477.9</b>	<b>446.1</b>	<b>427.6</b>	<b>398.5</b>
Run VMG	<b>923.5</b>	<b>734.5</b>	<b>622.9</b>	<b>551.9</b>	<b>514.8</b>	<b>485.8</b>	<b>431.1</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>999.1</b>	<b>805.2</b>	<b>693.8</b>	<b>623.7</b>	<b>588.5</b>	<b>568.3</b>	<b>538.2</b>
Circular Random	<b>826.6</b>	<b>662.1</b>	<b>572.7</b>	<b>520.5</b>	<b>488.8</b>	<b>468.6</b>	<b>444.0</b>
Coastal / Long Distance	<b>991.6</b>	<b>752.9</b>	<b>619.2</b>	<b>536.9</b>	<b>496.1</b>	<b>466.6</b>	<b>420.4</b>
Non Spinnaker	<b>907.2</b>	<b>718.1</b>	<b>612.9</b>	<b>549.5</b>	<b>509.8</b>	<b>484.2</b>	<b>454.7</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>44.3°</b>	<b>42.8°</b>	<b>42.0°</b>	<b>41.6°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>40.5°</b>
Beat VMG	<b>3.35</b>	<b>4.11</b>	<b>4.71</b>	<b>5.18</b>	<b>5.44</b>	<b>5.53</b>	<b>5.58</b>
52°	<b>5.22</b>	<b>6.25</b>	<b>7.11</b>	<b>7.69</b>	<b>7.99</b>	<b>8.10</b>	<b>8.15</b>
60°	<b>5.57</b>	<b>6.61</b>	<b>7.45</b>	<b>7.96</b>	<b>8.23</b>	<b>8.37</b>	<b>8.44</b>
75°	<b>5.86</b>	<b>6.92</b>	<b>7.71</b>	<b>8.16</b>	<b>8.44</b>	<b>8.66</b>	<b>8.90</b>
90°	<b>5.99</b>	<b>7.26</b>	<b>8.06</b>	<b>8.38</b>	<b>8.53</b>	<b>8.76</b>	<b>9.28</b>
110°	<b>6.09</b>	<b>7.41</b>	<b>8.21</b>	<b>8.65</b>	<b>9.03</b>	<b>9.28</b>	<b>9.70</b>
120°	<b>5.94</b>	<b>7.23</b>	<b>8.09</b>	<b>8.57</b>	<b>9.00</b>	<b>9.46</b>	<b>10.15</b>
135°	<b>5.34</b>	<b>6.59</b>	<b>7.63</b>	<b>8.25</b>	<b>8.67</b>	<b>9.10</b>	<b>10.07</b>
150°	<b>4.50</b>	<b>5.66</b>	<b>6.67</b>	<b>7.53</b>	<b>8.07</b>	<b>8.42</b>	<b>9.03</b>
Run VMG	<b>3.90</b>	<b>4.90</b>	<b>5.78</b>	<b>6.52</b>	<b>6.99</b>	<b>7.41</b>	<b>8.35</b>
Gybe Angles	<b>143.5°</b>	<b>148.0°</b>	<b>148.0°</b>	<b>148.8°</b>	<b>150.3°</b>	<b>174.0°</b>	<b>178.0°</b>