



**2020**  
ORC Club  
Certificate

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



**Certificate**  
Number **00280**  
Issued On **27/03/2020**  
ORC Ref **03420000F9F**  
VPP Ver. **2020 1.01**  
Valid until **28/02/2021**

**Crew Weight**

Default	522kg
Maximum	430kg
Minimum*	323kg

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

**Special Scoring**

ToD	ToT
Non Spin GPH	<b>736.2 0.8150</b>
Non Spin OSN	<b>710.9 0.8440</b>

**Sails Limitations**

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

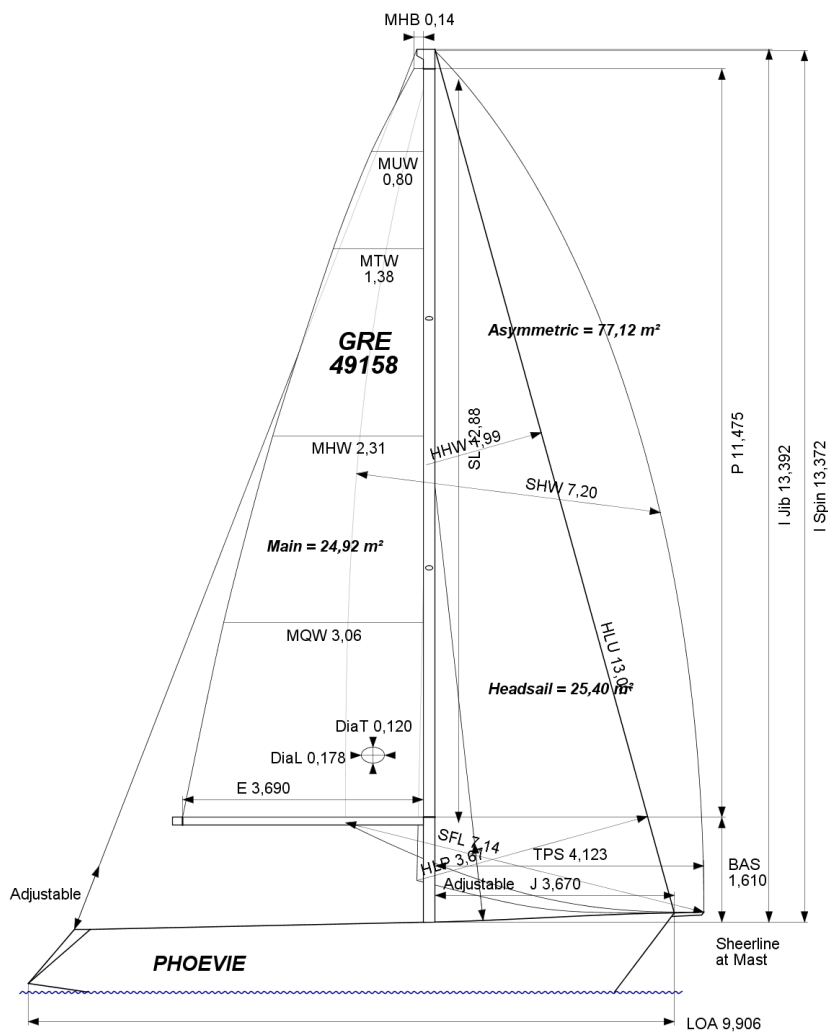
**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 77.12**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**  
CDL = **7.449**

**Stability (Measured)**  
Limit Positive Stab.: **110.2°**  
Stability Index: **109.3**

**Owner**



<b>BOAT</b> Name <b>PHOEVIE</b> Sail Nr <b>GRE-49158</b>		<b>GPH</b> <b>692.1</b>	<b>HULL</b> Data File <b>GR49158</b> LOA <b>9.906m</b> Offset File <b>E140.BOF</b> MB <b>3.376m</b> Displacement <b>4,532kg</b> Draft <b>1.821m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.316%</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> IMSL <b>8.219m</b> VCGD <b>0.063m</b> Sink <b>14.61kg/mm</b> RL <b>6.684m</b> VCGM <b>0.140m</b> WS <b>20.28m²</b> LSM0 <b>8.233m</b> Displacement/Length ratio <b>8.1211</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>																			
<b>CLASS</b> Class <b>FIRST 325</b> Designer <b>J.BERRET</b> Builder <b>BENETEAU</b> Series <b>01/1987</b> Age Date <b>01/1987</b> Age Allowance <b>0.487%</b>			<table border="1"> <tr><td colspan="7"><b>CENTERBOARD</b></td></tr> <tr><td colspan="7">N/A</td></tr> </table>						<b>CENTERBOARD</b>							N/A						
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<b>COMMENTS</b> ex "JOSIE II"																						
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.440</b> Type <b>Folding 2 blades</b> PBW <b>0.108</b> PIPA <b>0.0052</b>																						
<b>SCORING OPTIONS</b>																						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>																		
Time on Distance	<b>676.2</b>			<b>762.1</b>																		
Time on Time	<b>0.8874</b>			<b>0.8857</b>																		
Triple Number	Low	Medium	High	Low	Medium	High																
Time on Distance	<b>785.2</b>	<b>614.6</b>	<b>556.9</b>	<b>1020.6</b>	<b>766.1</b>	<b>674.9</b>																
Time on Time	<b>0.8596</b>	<b>1.0983</b>	<b>1.2121</b>	<b>0.6614</b>	<b>0.8811</b>	<b>1.0002</b>																

<b>BOAT</b>	Name <b>PHOEVIE</b>	Sail Nr <b>GRE-49158</b>
	File <b>GR49158</b>	Data in <b>meters/kilograms</b>

INCLINING TEST AND FREEBOARDS			
Inclining Test		Current Inclining	
Flotation date <b>13/04/2017</b>		SG <b>1.0270</b>	
FFM <b>1.196</b>	FF <b>1.195</b>	SFFP <b>0.653</b>	
FAM <b>0.944</b>	FA <b>0.944</b>	SAFP <b>8.957</b>	
W1 <b>52.7</b>	PD1 <b>270.0</b>	WD <b>10.230</b>	
W2 <b>52.7</b>	PD2 <b>270.0</b>	GSA <b>50.3</b>	
W3 <b>52.7</b>	PD3 <b>270.0</b>	RSA <b>5808.8</b>	
W4 <b>52.7</b>	PD4 <b>270.0</b>	PLM <b>2100.0</b>	
LCF from stem on CL / on sheer		<b>5.317 / 5.531</b>	
Maximum beam station from stem		<b>5.889</b>	
RM Measured		<b>72.8kg-m</b>	
RM Default		<b>83.8kg-m</b>	
Limit of positive stability / Stab.Index		<b>110.2° / 109.3</b>	
Freeboard at mast at 3.670		<b>1.071</b>	



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Offshore Racing Congress  
World leader in rating technology

**2020**  
Measurements  
Datasheet


<b>RIG</b>			
Forestay Tension	<b>Aft</b>	Spreaders	<b>2</b>
Inner Stay	<b>Adjustable</b>	Runners/Checkstays	<b>0</b>
Carbon Mast	<b>No</b>	Jib Furler	<b>No</b>
Fiber Rigging	<b>No</b>	Main Furler	<b>No</b>
Non-Circular Rigging	<b>No</b>		
Articulated Bowsprit	<b>No</b>		
P <b>11.475</b>	E <b>3.690</b>	MDT1 <b>0.120</b>	MW <b>0.178</b>
IG <b>13.392</b>	J <b>3.670</b>	MDL1 <b>0.178</b>	GO <b>0.180</b>
ISP <b>13.372</b>	SFJ	MDT2 <b>0.120</b>	BD <b>0.117</b>
BAS <b>1.610</b>	SPL	MDL2 <b>0.178</b>	MWT <b>107.70</b>
FSD <b>0.034</b>	TPS <b>4.123</b>	TL <b>0.000</b>	MCG <b>4.620</b>

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

<b>PROPELLER</b>			
Installation	<b>Shaft exposed</b>	PRD	<b>0.440</b>
Type	<b>Folding 2 blades</b>	PBW	<b>0.108</b>
Twin Screw	<b>No</b>	PIPA	<b>0.0052</b>
PSA <b>20.000</b>	PHL <b>0.127</b>	ST3 <b>0.065</b>	ESL <b>0.771</b>
PSD <b>0.025</b>	ST1 <b>0.016</b>	ST4 <b>0.049</b>	
PHD <b>0.078</b>	ST2 <b>0.065</b>	ST5 <b>0.154</b>	

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<b>COMMENTS</b>	
ex "JOSIE II"	

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

<b>CENTERBOARD</b>	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0.14	0.80	1.38	2.31	3.06	24.92		17/03/2009	KAKITSIS	Dacron						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.11	0.60	1.08	1.99	2.87	3.67	13.05	100%	25.40		No		14/03/2011	KAKITSIS	Polyest	
2	0.04	0.24	0.84	1.73	2.66	3.60	11.47	98%	20.01		No		02/10/2015	KAKITSIS	Dacron	
3	0.09	0.44	0.81	1.69	2.69	3.77	9.98	103%	17.86		No		20/03/2008		Dacron	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	13.75	12.00	12.88	7.20	7.14	77.13	asym		13/04/2015	KAKITSIS	Nylon					
1	13.32	12.91	13.12	4.84	6.36	56.22	asy77		13/03/2010		Unknown					

MEASUREMENT INVENTORY				
Measurer <b>GRE28/GRE29</b>				
Date <b>13/04/2017</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	3GM30	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY										
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
FW	Tank	Water		plywood/resin	120.0	4.52	-0.20	0-0	Port Tank	
FW	Tank	Water		plywood/resin	120.0	4.52	-0.20	0-0	Starboard Tank	
DT	Tank	Diesel		Inox	50.0	7.90	-0.10	2-0		
Id	Item	Weight	Distance	VCG Description						
1	Battery	20.0	6.40	-0.05	65Ah					
2	Battery	20.0	6.40	-0.05	65Ah					
3	Battery		6.77	-0.05	100Ah					
1	Misc	15.0	1.00	1.05	Windlass (Lofrans 1000W)					
2	Misc		9.00	2.10	Light Stainless steel frame & solar panel					
3	Misc		9.70	0.85	Swimming platform					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>PHOEVIE</b>
Sail Nr	<b>GRE-49158</b>
Certificate Number	<b>00280</b>
Issued On	<b>27/03/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1183.1</b>	<b>986.7</b>	<b>878.4</b>	<b>816.7</b>	<b>796.2</b>	<b>790.9</b>	<b>789.0</b>
52°	<b>774.4</b>	<b>659.2</b>	<b>591.7</b>	<b>563.3</b>	<b>551.5</b>	<b>547.6</b>	<b>546.9</b>
60°	<b>734.0</b>	<b>626.9</b>	<b>572.1</b>	<b>548.3</b>	<b>536.2</b>	<b>530.8</b>	<b>529.4</b>
75°	<b>679.4</b>	<b>580.0</b>	<b>544.6</b>	<b>529.6</b>	<b>520.9</b>	<b>510.3</b>	<b>500.2</b>
90°	<b>653.0</b>	<b>562.5</b>	<b>529.6</b>	<b>509.8</b>	<b>495.1</b>	<b>486.1</b>	<b>475.4</b>
110°	<b>677.3</b>	<b>571.4</b>	<b>531.1</b>	<b>506.5</b>	<b>485.8</b>	<b>469.2</b>	<b>442.7</b>
120°	<b>706.8</b>	<b>584.3</b>	<b>536.8</b>	<b>510.3</b>	<b>486.7</b>	<b>465.2</b>	<b>437.9</b>
135°	<b>783.9</b>	<b>639.4</b>	<b>560.7</b>	<b>527.3</b>	<b>503.0</b>	<b>479.6</b>	<b>439.2</b>
150°	<b>919.1</b>	<b>737.0</b>	<b>628.2</b>	<b>571.6</b>	<b>541.9</b>	<b>522.0</b>	<b>484.8</b>
Run VMG	<b>1061.3</b>	<b>851.0</b>	<b>725.3</b>	<b>660.0</b>	<b>612.9</b>	<b>563.9</b>	<b>516.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1122.2</b>	<b>918.9</b>	<b>801.9</b>	<b>738.4</b>	<b>704.6</b>	<b>677.4</b>	<b>652.6</b>
Circular Random	<b>944.7</b>	<b>766.1</b>	<b>671.7</b>	<b>618.1</b>	<b>586.2</b>	<b>566.2</b>	<b>542.6</b>
Coastal / Long Distance	<b>1116.1</b>	<b>860.6</b>	<b>720.3</b>	<b>639.5</b>	<b>597.8</b>	<b>565.0</b>	<b>515.9</b>
Non Spinnaker	<b>1030.7</b>	<b>825.0</b>	<b>713.1</b>	<b>647.5</b>	<b>607.4</b>	<b>582.2</b>	<b>553.9</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>43.5°</b>	<b>41.3°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>40.5°</b>	<b>40.1°</b>	<b>40.5°</b>
Beat VMG	<b>3.04</b>	<b>3.65</b>	<b>4.10</b>	<b>4.41</b>	<b>4.52</b>	<b>4.55</b>	<b>4.56</b>
52°	<b>4.65</b>	<b>5.46</b>	<b>6.08</b>	<b>6.39</b>	<b>6.53</b>	<b>6.57</b>	<b>6.58</b>
60°	<b>4.90</b>	<b>5.74</b>	<b>6.29</b>	<b>6.57</b>	<b>6.71</b>	<b>6.78</b>	<b>6.80</b>
75°	<b>5.30</b>	<b>6.21</b>	<b>6.61</b>	<b>6.80</b>	<b>6.91</b>	<b>7.05</b>	<b>7.20</b>
90°	<b>5.51</b>	<b>6.40</b>	<b>6.80</b>	<b>7.06</b>	<b>7.27</b>	<b>7.41</b>	<b>7.57</b>
110°	<b>5.32</b>	<b>6.30</b>	<b>6.78</b>	<b>7.11</b>	<b>7.41</b>	<b>7.67</b>	<b>8.13</b>
120°	<b>5.09</b>	<b>6.16</b>	<b>6.71</b>	<b>7.05</b>	<b>7.40</b>	<b>7.74</b>	<b>8.22</b>
135°	<b>4.59</b>	<b>5.63</b>	<b>6.42</b>	<b>6.83</b>	<b>7.16</b>	<b>7.51</b>	<b>8.20</b>
150°	<b>3.92</b>	<b>4.88</b>	<b>5.73</b>	<b>6.30</b>	<b>6.64</b>	<b>6.90</b>	<b>7.43</b>
Run VMG	<b>3.39</b>	<b>4.23</b>	<b>4.96</b>	<b>5.45</b>	<b>5.87</b>	<b>6.38</b>	<b>6.97</b>
Gybe Angles	<b>146.0°</b>	<b>147.3°</b>	<b>146.8°</b>	<b>149.0°</b>	<b>174.0°</b>	<b>177.0°</b>	<b>178.0°</b>