



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020**  
**ORC Club**  
**Certificate**

**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number **C08/20**  
Issued On **19/06/2020**  
ORC Ref **03090000L3Q**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 553kg  
Maximum **629kg**  
Minimum\* **472kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **579.7 1.0350**  
Non Spin OSN **567.8 1.0566**

**Sails Limitations**

Headsails **5** Spinnakers **4**  
**Asymmetric on centerline**  
**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 122.17**  
Flying H/S: **No**  
Spin. Pole: **No**

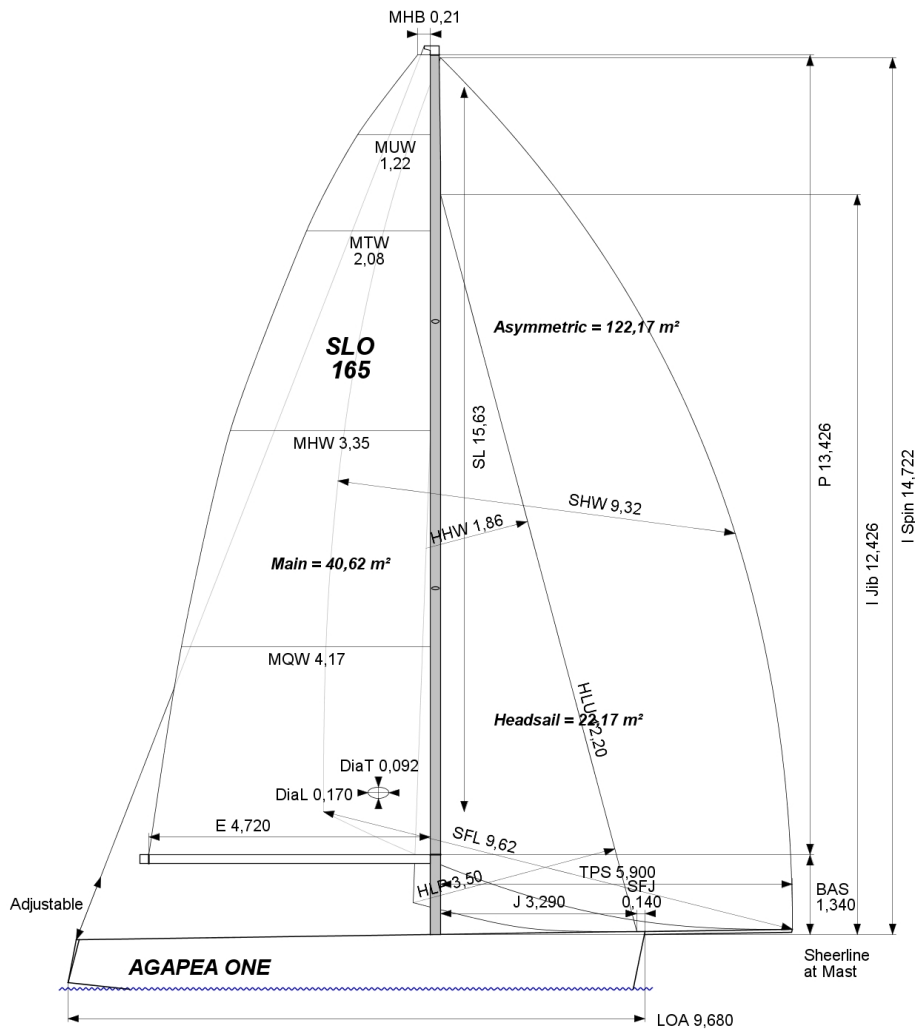
**Class Division Length**

**CDL = 9.358**

**Stability (Estimated)**

Limit Positive Stab.: **127.2°**  
Stability Index: **120.5**

**Owner**



<b>BOAT</b> Name <b>Agapea One</b> Sail Nr <b>SLO 165</b>		<b>GPH</b> <b>536.2</b>	<b>HULL</b> Data File <b>SLO165</b> LOA <b>9.680m</b> Offset File <b>mel32.Off</b> MB <b>2.944m</b> Displacement <b>1,710kg</b> Draft <b>2.162m</b>			
<b>CLASS</b> Class <b>Melges 32 OD</b> Designer <b>Reichel/Pugh</b> Builder <b>Melges Boat Works</b> Series <b>03/2005, CIN USMED32165G708</b> Age Date <b>01/2007</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.000%</b> Plan Review Construction <b>Cored</b> Fiber Rigging <b>Yes</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions <b>No</b>		IMSL <b>9.029m</b> VCGD <b>-0.402m</b> Sink <b>12.21kg/mm</b> RL <b>9.696m</b> VCGM <b>-0.408m</b> WS <b>15.83m²</b> LSM0 <b>8.580m</b> Displacement/Length ratio <b>2.7073</b>		
<b>COMMENTS</b> Based on OD with sail measurements		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>		<b>CENTERBOARD</b>  <b>NA</b>		
<b>PROPELLER</b> Type <b>No Propeller</b>						
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>524.5</b>			<b>590.2</b>		
Time on Time	<b>1.1440</b>			<b>1.1437</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>596.1</b>	<b>484.7</b>	<b>418.9</b>	<b>759.0</b>	<b>602.9</b>	<b>511.6</b>
Time on Time	<b>1.1324</b>	<b>1.3927</b>	<b>1.6114</b>	<b>0.8893</b>	<b>1.1196</b>	<b>1.3194</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>Agapea One</b>	Certificate Number	<b>C08/20</b>
Sail Nr	<b>SLO 165</b>	Issued On	<b>19/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>864.4</b>	<b>726.8</b>	<b>691.1</b>	<b>678.1</b>	<b>666.6</b>	<b>660.3</b>	<b>665.4</b>
52°	<b>567.5</b>	<b>507.8</b>	<b>491.4</b>	<b>482.4</b>	<b>475.0</b>	<b>464.2</b>	<b>460.3</b>
60°	<b>540.9</b>	<b>492.2</b>	<b>470.3</b>	<b>458.5</b>	<b>451.5</b>	<b>438.2</b>	<b>430.6</b>
75°	<b>523.7</b>	<b>476.2</b>	<b>438.6</b>	<b>421.8</b>	<b>411.7</b>	<b>404.7</b>	<b>383.5</b>
90°	<b>524.3</b>	<b>476.7</b>	<b>428.6</b>	<b>393.6</b>	<b>376.3</b>	<b>365.1</b>	<b>348.4</b>
110°	<b>520.0</b>	<b>464.2</b>	<b>430.3</b>	<b>398.3</b>	<b>370.5</b>	<b>334.1</b>	<b>298.0</b>
120°	<b>529.1</b>	<b>460.5</b>	<b>416.0</b>	<b>387.0</b>	<b>357.8</b>	<b>330.5</b>	<b>285.7</b>
135°	<b>580.0</b>	<b>490.1</b>	<b>430.4</b>	<b>372.3</b>	<b>332.8</b>	<b>306.5</b>	<b>260.8</b>
150°	<b>693.0</b>	<b>558.2</b>	<b>487.5</b>	<b>437.6</b>	<b>381.7</b>	<b>329.2</b>	<b>246.4</b>
Run VMG	<b>800.2</b>	<b>644.6</b>	<b>569.6</b>	<b>505.3</b>	<b>440.7</b>	<b>380.1</b>	<b>284.6</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>832.3</b>	<b>685.7</b>	<b>630.3</b>	<b>591.7</b>	<b>553.7</b>	<b>520.2</b>	<b>475.0</b>
Circular Random	<b>721.4</b>	<b>591.9</b>	<b>522.7</b>	<b>480.4</b>	<b>451.0</b>	<b>428.3</b>	<b>394.6</b>
Coastal / Long Distance	<b>829.1</b>	<b>647.9</b>	<b>568.0</b>	<b>511.0</b>	<b>467.7</b>	<b>428.0</b>	<b>368.4</b>
Non Spinnaker	<b>794.4</b>	<b>644.6</b>	<b>563.6</b>	<b>514.9</b>	<b>482.3</b>	<b>458.5</b>	<b>423.6</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>42.8°</b>	<b>39.0°</b>	<b>37.5°</b>	<b>37.1°</b>	<b>36.8°</b>	<b>36.8°</b>	<b>37.9°</b>
Beat VMG	<b>4.16</b>	<b>4.95</b>	<b>5.21</b>	<b>5.31</b>	<b>5.40</b>	<b>5.45</b>	<b>5.41</b>
52°	<b>6.34</b>	<b>7.09</b>	<b>7.33</b>	<b>7.46</b>	<b>7.58</b>	<b>7.75</b>	<b>7.82</b>
60°	<b>6.66</b>	<b>7.31</b>	<b>7.65</b>	<b>7.85</b>	<b>7.97</b>	<b>8.22</b>	<b>8.36</b>
75°	<b>6.87</b>	<b>7.56</b>	<b>8.21</b>	<b>8.54</b>	<b>8.75</b>	<b>8.89</b>	<b>9.39</b>
90°	<b>6.87</b>	<b>7.55</b>	<b>8.40</b>	<b>9.15</b>	<b>9.57</b>	<b>9.86</b>	<b>10.33</b>
110°	<b>6.92</b>	<b>7.76</b>	<b>8.37</b>	<b>9.04</b>	<b>9.72</b>	<b>10.78</b>	<b>12.08</b>
120°	<b>6.80</b>	<b>7.82</b>	<b>8.65</b>	<b>9.30</b>	<b>10.06</b>	<b>10.89</b>	<b>12.60</b>
135°	<b>6.21</b>	<b>7.35</b>	<b>8.36</b>	<b>9.67</b>	<b>10.82</b>	<b>11.75</b>	<b>13.80</b>
150°	<b>5.19</b>	<b>6.45</b>	<b>7.38</b>	<b>8.23</b>	<b>9.43</b>	<b>10.94</b>	<b>14.61</b>
Run VMG	<b>4.50</b>	<b>5.59</b>	<b>6.32</b>	<b>7.13</b>	<b>8.17</b>	<b>9.47</b>	<b>12.65</b>
Gybe Angles	<b>142.0°</b>	<b>147.5°</b>	<b>153.0°</b>	<b>148.5°</b>	<b>142.5°</b>	<b>142.5°</b>	<b>148.0°</b>