



**ORC**  
Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

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



**Certificate**

Number **090/20**  
Issued On **09/10/2020**  
ORC Ref **02920000RPA**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 590kg  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>671.0</b>	<b>0.8942</b>
Non Spin OSN	<b>651.3</b>	<b>0.9212</b>

**Sails Limitations**

Headsails **1** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes** 87.83  
Flying H/S: **No**  
Spin. Pole: **No**

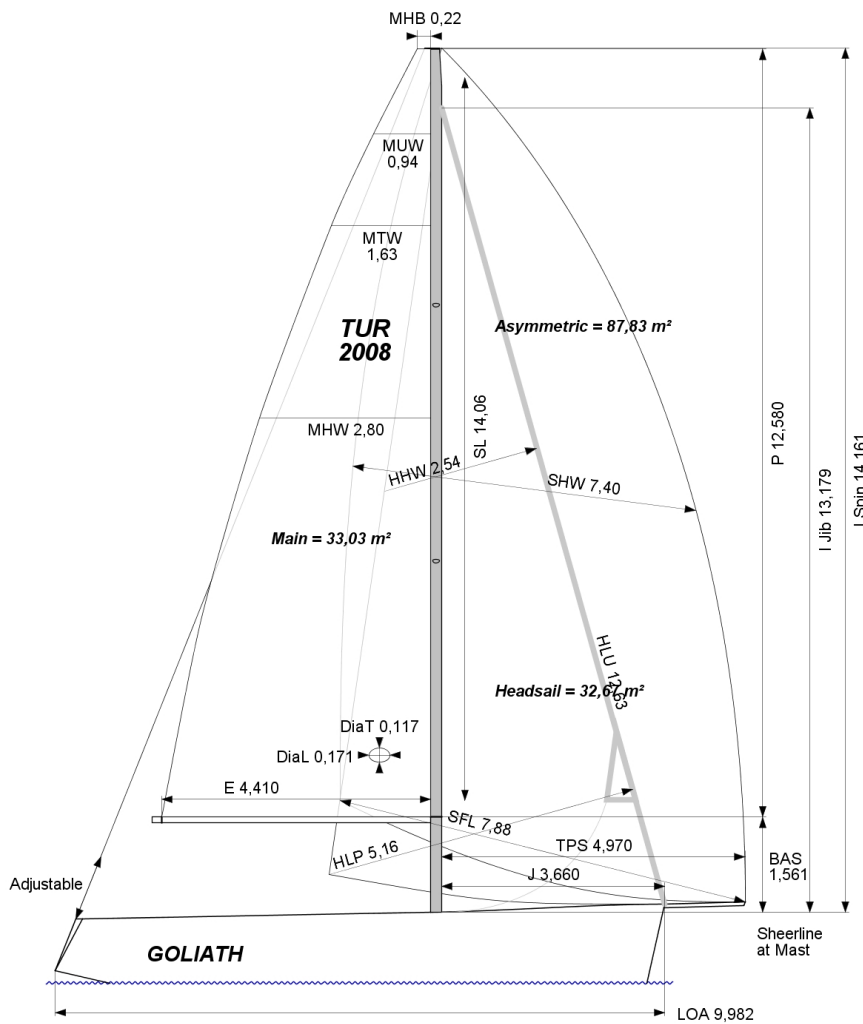
**Class Division Length**

**CDL = 8.685**

**Stability (Estimated)**

Limit Positive Stab.: **127.4°**  
Stability Index: **127.1**

**Owner**



BOAT	GPH	HULL
Name <b>GOLIATH</b> Sail Nr <b>TUR-2008</b>	<b>636.7</b>	Data File <b>TUR2008</b> LOA <b>9.982m</b> Offset File <b>F235.OFF</b> MB <b>3.372m</b> Displacement <b>4,642kg</b> Draft <b>2.002m</b>
<b>CLASS</b> Class <b>FIRST 34.7</b> Designer <b>FARR BRUCE</b> Builder <b>BENETEAU</b> Series <b>02/2005</b> Age Date <b>12/2007</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.080%</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>		IMSL <b>9.112m</b> VCGD <b>-0.100m</b> Sink <b>16.46kg/mm</b> RL <b>8.265m</b> VCGM <b>-0.087m</b> WS <b>22.16m<sup>2</sup></b> LSM0 <b>8.971m</b> Displacement/Length ratio <b>6.4296</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 Type <b>Folding 2 blades</b> PIPA <b>0.0033</b>		<b>CENTERBOARD</b> <b>N/A</b>
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>620.2</b>	<b>695.2</b>
Time on Time	<b>0.9675</b>	<b>0.9710</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>722.3 565.5 511.7</b>	<b>931.9 697.2 617.8</b>
Time on Time	<b>0.9345 1.1936 1.3191</b>	<b>0.7243 0.9682 1.0926</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>GOLIATH</b>
Sail Nr	<b>TUR-2008</b>
Certificate Number	<b>090/20</b>
Issued On	<b>09/10/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1071.6</b>	<b>890.5</b>	<b>783.5</b>	<b>734.5</b>	<b>717.9</b>	<b>711.8</b>	<b>715.0</b>
52°	<b>699.8</b>	<b>591.1</b>	<b>538.3</b>	<b>517.5</b>	<b>509.7</b>	<b>506.3</b>	<b>506.0</b>
60°	<b>660.3</b>	<b>564.4</b>	<b>524.2</b>	<b>505.8</b>	<b>496.3</b>	<b>492.2</b>	<b>490.3</b>
75°	<b>631.0</b>	<b>546.6</b>	<b>514.1</b>	<b>495.1</b>	<b>480.7</b>	<b>470.3</b>	<b>462.3</b>
90°	<b>637.9</b>	<b>540.1</b>	<b>503.6</b>	<b>488.8</b>	<b>474.8</b>	<b>458.4</b>	<b>434.9</b>
110°	<b>632.7</b>	<b>532.3</b>	<b>496.1</b>	<b>470.7</b>	<b>448.5</b>	<b>435.4</b>	<b>415.1</b>
120°	<b>651.6</b>	<b>542.5</b>	<b>501.5</b>	<b>474.7</b>	<b>448.4</b>	<b>424.6</b>	<b>394.3</b>
135°	<b>722.0</b>	<b>588.0</b>	<b>522.5</b>	<b>492.4</b>	<b>466.8</b>	<b>441.2</b>	<b>393.4</b>
150°	<b>849.2</b>	<b>679.8</b>	<b>579.3</b>	<b>528.5</b>	<b>503.5</b>	<b>484.7</b>	<b>443.7</b>
Run VMG	<b>980.6</b>	<b>785.0</b>	<b>668.9</b>	<b>610.3</b>	<b>571.2</b>	<b>527.0</b>	<b>481.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1026.1</b>	<b>837.7</b>	<b>726.2</b>	<b>672.4</b>	<b>644.5</b>	<b>619.4</b>	<b>598.3</b>
Circular Random	<b>869.3</b>	<b>704.8</b>	<b>617.9</b>	<b>568.7</b>	<b>539.2</b>	<b>520.3</b>	<b>497.2</b>
Coastal / Long Distance	<b>1021.5</b>	<b>786.5</b>	<b>656.5</b>	<b>587.1</b>	<b>551.1</b>	<b>519.9</b>	<b>472.1</b>
Non Spinnaker	<b>934.8</b>	<b>750.1</b>	<b>650.2</b>	<b>592.0</b>	<b>556.6</b>	<b>534.1</b>	<b>507.8</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>41.3°</b>	<b>40.7°</b>	<b>39.0°</b>	<b>38.8°</b>	<b>38.6°</b>	<b>39.0°</b>
Beat VMG	<b>3.36</b>	<b>4.04</b>	<b>4.59</b>	<b>4.90</b>	<b>5.01</b>	<b>5.06</b>	<b>5.03</b>
52°	<b>5.14</b>	<b>6.09</b>	<b>6.69</b>	<b>6.96</b>	<b>7.06</b>	<b>7.11</b>	<b>7.11</b>
60°	<b>5.45</b>	<b>6.38</b>	<b>6.87</b>	<b>7.12</b>	<b>7.25</b>	<b>7.31</b>	<b>7.34</b>
75°	<b>5.71</b>	<b>6.59</b>	<b>7.00</b>	<b>7.27</b>	<b>7.49</b>	<b>7.65</b>	<b>7.79</b>
90°	<b>5.64</b>	<b>6.66</b>	<b>7.15</b>	<b>7.36</b>	<b>7.58</b>	<b>7.85</b>	<b>8.28</b>
110°	<b>5.69</b>	<b>6.76</b>	<b>7.26</b>	<b>7.65</b>	<b>8.03</b>	<b>8.27</b>	<b>8.67</b>
120°	<b>5.52</b>	<b>6.64</b>	<b>7.18</b>	<b>7.58</b>	<b>8.03</b>	<b>8.48</b>	<b>9.13</b>
135°	<b>4.99</b>	<b>6.12</b>	<b>6.89</b>	<b>7.31</b>	<b>7.71</b>	<b>8.16</b>	<b>9.15</b>
150°	<b>4.24</b>	<b>5.30</b>	<b>6.21</b>	<b>6.81</b>	<b>7.15</b>	<b>7.43</b>	<b>8.11</b>
Run VMG	<b>3.67</b>	<b>4.59</b>	<b>5.38</b>	<b>5.90</b>	<b>6.30</b>	<b>6.83</b>	<b>7.48</b>
Gybe Angles	<b>145.0°</b>	<b>148.0°</b>	<b>148.5°</b>	<b>150.0°</b>	<b>174.0°</b>	<b>177.0°</b>	<b>178.0°</b>