



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

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **004/20**  
Issued On **29/09/2020**  
ORC Ref **02920000R07**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 581kg  
Maximum **660kg**  
Minimum\* **495kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **Rig**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>654.1</b>	<b>0.9173</b>
Non Spin OSN	<b>634.2</b>	<b>0.9461</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **Yes 105.76**  
Asymmetric: **Yes 99.67**  
Flying H/S: **No**  
Spin. Pole: **Yes**

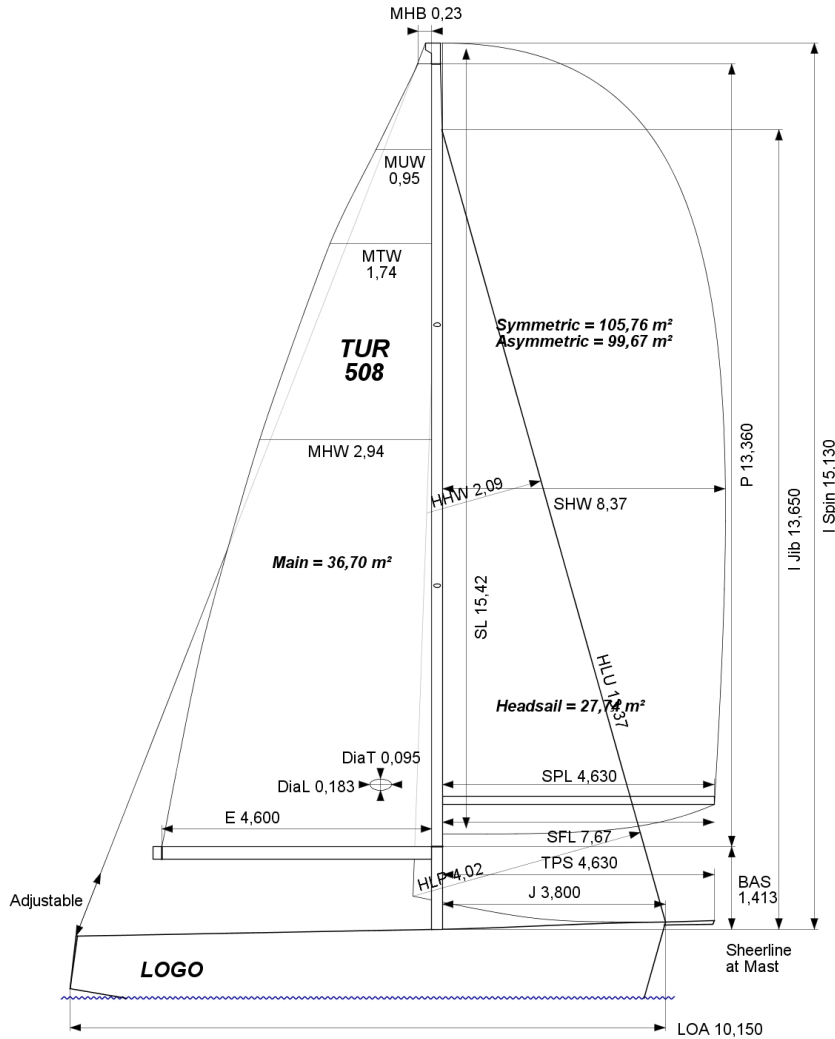
**Class Division Length**

**CDL = 9.009**

**Stability (Estimated)**

Limit Positive Stab.: **138.9°**  
Stability Index: **139.1**

**Owner**



BOAT	GPH	HULL
Name <b>Logo</b> Sail Nr <b>TUR-508</b>	<b>611.4</b>	Data File <b>TUR508</b> LOA <b>10.150m</b> Offset File <b>MAT1010v+.OFF</b> MB <b>3.314m</b> Displacement <b>4,520kg</b> Draft <b>2.102m</b>
<b>CLASS</b> Class <b>MAT 1010</b> Designer <b>Mills</b> Builder <b>Mat Sailing Yacht</b> Series <b>01/2011</b> Age Date <b>01/2012</b> Age Allowance <b>0.292%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.137%</b> Plan Review Construction <b>Cored</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>9.246m</b> VCGD <b>-0.252m</b> Sink <b>15.68kg/mm</b> RL <b>8.769m</b> VCGM <b>-0.259m</b> WS <b>22.61m²</b> LSM0 <b>8.881m</b> Displacement/Length ratio <b>6.4529</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.400</b> Type <b>Folding 2 blades</b> PBW <b>0.110</b> PIPA <b>0.0032</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</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>594.5</b>	<b>661.5</b>
Time on Time	<b>1.0092</b>	<b>1.0203</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>693.7 543.5 486.2</b>	<b>893.8 662.5 580.8</b>
Time on Time	<b>0.9730 1.2419 1.3884</b>	<b>0.7552 1.0189 1.1621</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>		Certificate Number	004/20
Name	Logo	Issued On	29/09/2020
Sail Nr	TUR-508		

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1044.5</b>	<b>861.9</b>	<b>758.7</b>	<b>713.1</b>	<b>696.6</b>	<b>689.9</b>	<b>676.5</b>
52°	<b>682.2</b>	<b>574.5</b>	<b>524.9</b>	<b>505.4</b>	<b>497.6</b>	<b>494.0</b>	<b>489.0</b>
60°	<b>643.6</b>	<b>550.0</b>	<b>511.8</b>	<b>494.0</b>	<b>484.1</b>	<b>479.5</b>	<b>475.9</b>
75°	<b>615.7</b>	<b>533.2</b>	<b>502.1</b>	<b>483.0</b>	<b>468.0</b>	<b>456.5</b>	<b>447.0</b>
90°	<b>608.5</b>	<b>519.7</b>	<b>491.9</b>	<b>480.5</b>	<b>462.7</b>	<b>445.1</b>	<b>418.8</b>
110°	<b>600.3</b>	<b>512.5</b>	<b>479.8</b>	<b>454.4</b>	<b>438.0</b>	<b>424.9</b>	<b>402.1</b>
120°	<b>617.8</b>	<b>519.3</b>	<b>483.1</b>	<b>454.6</b>	<b>428.4</b>	<b>406.7</b>	<b>379.8</b>
135°	<b>681.7</b>	<b>553.3</b>	<b>500.3</b>	<b>471.3</b>	<b>442.8</b>	<b>415.0</b>	<b>354.7</b>
150°	<b>802.7</b>	<b>642.5</b>	<b>546.2</b>	<b>499.9</b>	<b>473.0</b>	<b>446.6</b>	<b>394.9</b>
Run VMG	<b>926.9</b>	<b>741.9</b>	<b>629.4</b>	<b>563.2</b>	<b>516.3</b>	<b>486.2</b>	<b>436.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>985.7</b>	<b>801.9</b>	<b>694.0</b>	<b>638.2</b>	<b>606.4</b>	<b>588.0</b>	<b>556.6</b>
Circular Random	<b>835.5</b>	<b>677.4</b>	<b>593.5</b>	<b>545.3</b>	<b>515.5</b>	<b>495.2</b>	<b>466.1</b>
Coastal / Long Distance	<b>979.8</b>	<b>753.1</b>	<b>629.6</b>	<b>563.7</b>	<b>527.2</b>	<b>497.6</b>	<b>448.5</b>
Non Spinnaker	<b>913.8</b>	<b>732.1</b>	<b>633.7</b>	<b>576.2</b>	<b>540.6</b>	<b>517.0</b>	<b>485.5</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>40.1°</b>	<b>38.8°</b>	<b>38.3°</b>	<b>38.1°</b>	<b>37.7°</b>
Beat VMG	<b>3.45</b>	<b>4.18</b>	<b>4.75</b>	<b>5.05</b>	<b>5.17</b>	<b>5.22</b>	<b>5.32</b>
52°	<b>5.28</b>	<b>6.27</b>	<b>6.86</b>	<b>7.12</b>	<b>7.23</b>	<b>7.29</b>	<b>7.36</b>
60°	<b>5.59</b>	<b>6.55</b>	<b>7.03</b>	<b>7.29</b>	<b>7.44</b>	<b>7.51</b>	<b>7.56</b>
75°	<b>5.85</b>	<b>6.75</b>	<b>7.17</b>	<b>7.45</b>	<b>7.69</b>	<b>7.89</b>	<b>8.05</b>
90°	<b>5.92</b>	<b>6.93</b>	<b>7.32</b>	<b>7.49</b>	<b>7.78</b>	<b>8.09</b>	<b>8.60</b>
110°	<b>6.00</b>	<b>7.02</b>	<b>7.50</b>	<b>7.92</b>	<b>8.22</b>	<b>8.47</b>	<b>8.95</b>
120°	<b>5.83</b>	<b>6.93</b>	<b>7.45</b>	<b>7.92</b>	<b>8.40</b>	<b>8.85</b>	<b>9.48</b>
135°	<b>5.28</b>	<b>6.51</b>	<b>7.20</b>	<b>7.64</b>	<b>8.13</b>	<b>8.67</b>	<b>10.15</b>
150°	<b>4.48</b>	<b>5.60</b>	<b>6.59</b>	<b>7.20</b>	<b>7.61</b>	<b>8.06</b>	<b>9.12</b>
Run VMG	<b>3.88</b>	<b>4.85</b>	<b>5.72</b>	<b>6.39</b>	<b>6.97</b>	<b>7.40</b>	<b>8.24</b>
Gybe Angles	<b>142.6°</b>	<b>148.0°</b>	<b>151.5°</b>	<b>159.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>