



**ORC**

Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

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



**Certificate**

Number **074/20**  
Issued On **30/09/2020**  
ORC Ref **02920000R6C**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 653kg  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>671.9</b>	<b>0.8930</b>
Non Spin OSN	<b>650.7</b>	<b>0.9221</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **78.06**  
Asymmetric: **Yes** **71.37**  
Flying H/S: **No**  
Spin. Pole: **Yes**

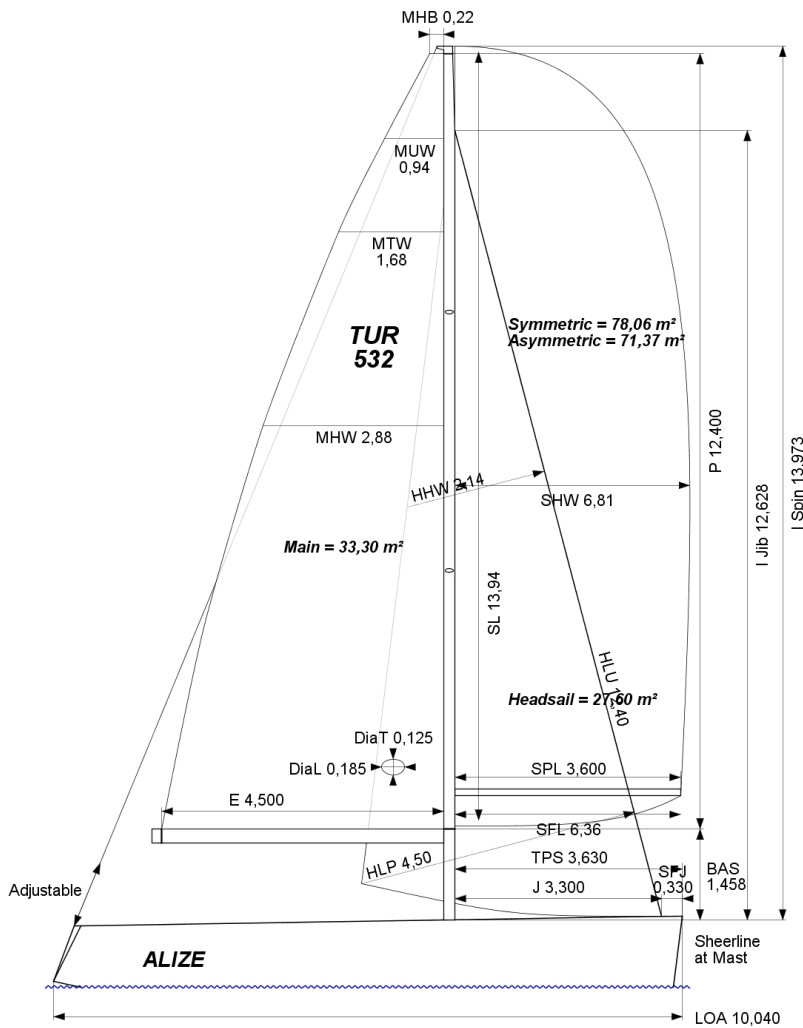
**Class Division Length**

**CDL = 8.943**

**Stability (Estimated)**

Limit Positive Stab.: **121.9°**  
Stability Index: **124.5**

**Owner**



BOAT	GPH	HULL
Name <b>Alize</b> Sail Nr <b>TUR-532</b>	<b>637.0</b>	Data File <b>TUR532</b> LOA <b>10.040m</b> Offset File <b>MAT10.off</b> MB <b>3.142m</b> Displacement <b>4,610kg</b> Draft <b>2.061m</b>
<b>CLASS</b> Class <b>MAT 10 MK2</b> Designer <b>Mills</b> Builder <b>M.A.T.</b> Series <b>01/1997, CIN 12</b> Age Date <b>01/2004</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.240%</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>9.603m</b> VCGD <b>0.141m</b> Sink <b>16.77kg/mm</b> RL <b>8.281m</b> VCGM <b>-0.052m</b> WS <b>22.19m²</b> LSM0 <b>9.636m</b> Displacement/Length ratio <b>5.1524</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.405</b> Type <b>Folding 2 blades</b> PBW <b>0.130</b> PIPA <b>0.0034</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>618.3</b>	<b>688.5</b>
Time on Time	<b>0.9704</b>	<b>0.9805</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>730.0 564.1 504.5</b>	<b>941.7 691.4 602.2</b>
Time on Time	<b>0.9247 1.1966 1.3380</b>	<b>0.7168 0.9763 1.1209</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Alize</b>	Certificate Number <b>074/20</b>
Sail Nr <b>TUR-532</b>	Issued On <b>30/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1080.4</b>	<b>893.1</b>	<b>786.2</b>	<b>733.8</b>	<b>715.3</b>	<b>707.9</b>	<b>705.7</b>
52°	<b>706.0</b>	<b>596.1</b>	<b>538.7</b>	<b>516.3</b>	<b>507.7</b>	<b>503.9</b>	<b>502.6</b>
60°	<b>667.1</b>	<b>568.2</b>	<b>523.5</b>	<b>504.1</b>	<b>494.3</b>	<b>489.9</b>	<b>487.3</b>
75°	<b>639.2</b>	<b>548.8</b>	<b>512.6</b>	<b>493.3</b>	<b>479.4</b>	<b>469.2</b>	<b>460.7</b>
90°	<b>644.0</b>	<b>541.5</b>	<b>502.8</b>	<b>485.7</b>	<b>474.6</b>	<b>458.4</b>	<b>434.1</b>
110°	<b>643.1</b>	<b>536.7</b>	<b>497.0</b>	<b>472.8</b>	<b>451.1</b>	<b>434.3</b>	<b>413.1</b>
120°	<b>664.0</b>	<b>548.1</b>	<b>502.1</b>	<b>475.9</b>	<b>450.3</b>	<b>426.5</b>	<b>392.1</b>
135°	<b>734.2</b>	<b>596.7</b>	<b>524.3</b>	<b>492.7</b>	<b>468.0</b>	<b>441.9</b>	<b>391.2</b>
150°	<b>865.1</b>	<b>688.0</b>	<b>583.0</b>	<b>522.7</b>	<b>493.5</b>	<b>470.6</b>	<b>422.5</b>
Run VMG	<b>998.9</b>	<b>794.4</b>	<b>672.5</b>	<b>593.6</b>	<b>538.6</b>	<b>503.8</b>	<b>458.4</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1039.7</b>	<b>843.7</b>	<b>729.4</b>	<b>663.7</b>	<b>627.0</b>	<b>605.8</b>	<b>582.0</b>
Circular Random	<b>876.7</b>	<b>708.0</b>	<b>618.0</b>	<b>566.1</b>	<b>534.4</b>	<b>513.8</b>	<b>487.9</b>
Coastal / Long Distance	<b>1035.6</b>	<b>792.3</b>	<b>658.7</b>	<b>583.2</b>	<b>544.8</b>	<b>514.6</b>	<b>465.3</b>
Non Spinnaker	<b>940.2</b>	<b>752.5</b>	<b>650.7</b>	<b>591.2</b>	<b>554.7</b>	<b>531.1</b>	<b>502.1</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>40.9°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>38.3°</b>	<b>38.3°</b>
Beat VMG	<b>3.33</b>	<b>4.03</b>	<b>4.58</b>	<b>4.91</b>	<b>5.03</b>	<b>5.09</b>	<b>5.10</b>
52°	<b>5.10</b>	<b>6.04</b>	<b>6.68</b>	<b>6.97</b>	<b>7.09</b>	<b>7.14</b>	<b>7.16</b>
60°	<b>5.40</b>	<b>6.34</b>	<b>6.88</b>	<b>7.14</b>	<b>7.28</b>	<b>7.35</b>	<b>7.39</b>
75°	<b>5.63</b>	<b>6.56</b>	<b>7.02</b>	<b>7.30</b>	<b>7.51</b>	<b>7.67</b>	<b>7.81</b>
90°	<b>5.59</b>	<b>6.65</b>	<b>7.16</b>	<b>7.41</b>	<b>7.59</b>	<b>7.85</b>	<b>8.29</b>
110°	<b>5.60</b>	<b>6.71</b>	<b>7.24</b>	<b>7.61</b>	<b>7.98</b>	<b>8.29</b>	<b>8.71</b>
120°	<b>5.42</b>	<b>6.57</b>	<b>7.17</b>	<b>7.56</b>	<b>8.00</b>	<b>8.44</b>	<b>9.18</b>
135°	<b>4.90</b>	<b>6.03</b>	<b>6.87</b>	<b>7.31</b>	<b>7.69</b>	<b>8.15</b>	<b>9.20</b>
150°	<b>4.16</b>	<b>5.23</b>	<b>6.17</b>	<b>6.89</b>	<b>7.29</b>	<b>7.65</b>	<b>8.52</b>
Run VMG	<b>3.60</b>	<b>4.53</b>	<b>5.35</b>	<b>6.06</b>	<b>6.68</b>	<b>7.15</b>	<b>7.85</b>
Gybe Angles	<b>145.0°</b>	<b>149.5°</b>	<b>151.0°</b>	<b>158.0°</b>	<b>178.0°</b>	<b>180.0°</b>	<b>180.0°</b>