



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **087/20**  
Issued On **25/10/2020**  
ORC Ref **02920000SBS**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 426kg  
Maximum **536kg**  
Minimum\* **402kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>687.2</b>	<b>0.8731</b>
Non Spin OSN	<b>666.4</b>	<b>0.9004</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** 50.18  
Asymmetric: **Yes** 47.12  
Flying H/S: **No**  
Spin. Pole: **Yes**

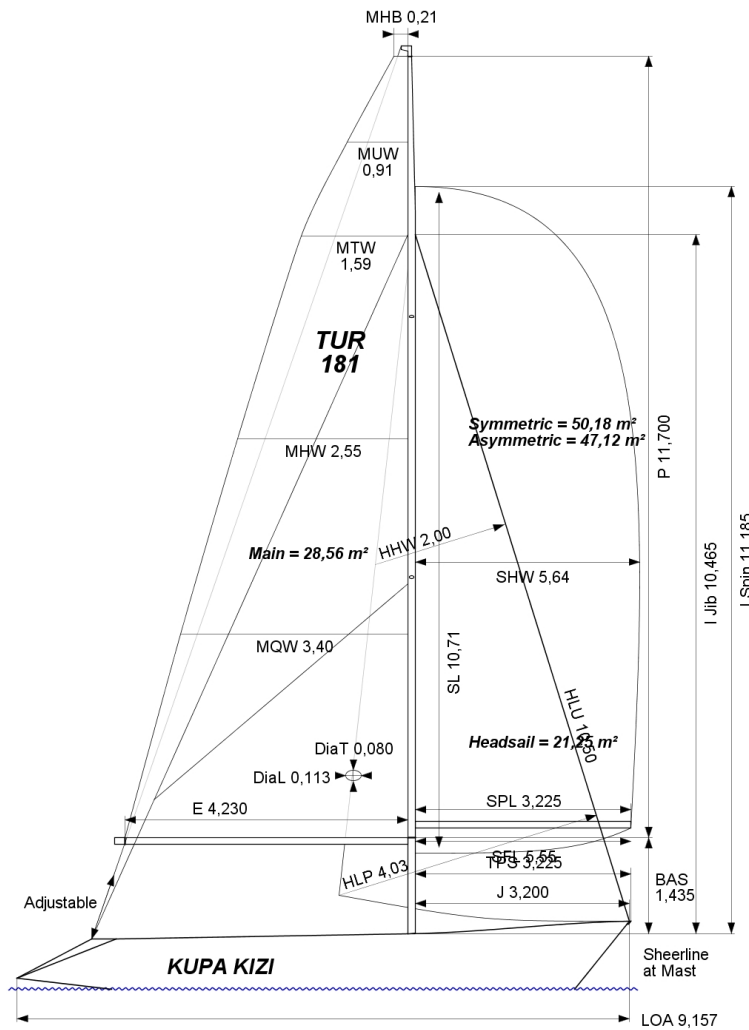
**Class Division Length**

**CDL = 7.708**

**Stability (Estimated)**

Limit Positive Stab.: **119.1°**  
Stability Index: **112.8**

**Owner**



BOAT	GPH	HULL
Name <b>Kupa Kızı</b> Sail Nr <b>TUR-181</b>	<b>660.0</b>	Data File <b>TUR181</b> LOA <b>9.157m</b> Offset File <b>tur181.off</b> MB <b>3.232m</b> Displacement <b>2,802kg</b> Draft <b>1.809m</b>
<b>CLASS</b> Class <b>HALF TONNER</b> Designer <b>F. GORBON</b> Builder <b>REGATEK</b> Series <b>01/1985</b> Age Date <b>01/1994</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.002%</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>7.483m</b> VCGD <b>-0.200m</b> Sink <b>11.77kg/mm</b> RL <b>7.942m</b> VCGM <b>-0.139m</b> WS <b>15.77m²</b> LSM0 <b>7.144m</b> Displacement/Length ratio <b>7.6850</b>
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.385</b> Type <b>Folding 2 blades</b> PBW <b>0.140</b> PIPA <b>0.0038</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
		<b>CENTERBOARD</b> <b>NA</b>
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>641.8</b>	<b>711.5</b>
Time on Time	<b>0.9348</b>	<b>0.9487</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>748.4 587.2 524.6</b>	<b>964.6 713.6 624.2</b>
Time on Time	<b>0.9019 1.1495 1.2866</b>	<b>0.6998 0.9459 1.0814</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>Kupa Kızı</b>	Certificate Number	<b>087/20</b>
Sail Nr	<b>TUR-181</b>	Issued On	<b>25/10/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1071.5</b>	<b>892.6</b>	<b>792.8</b>	<b>749.3</b>	<b>733.4</b>	<b>726.1</b>	<b>721.1</b>
52°	<b>703.2</b>	<b>600.5</b>	<b>560.6</b>	<b>542.2</b>	<b>532.7</b>	<b>527.5</b>	<b>523.8</b>
60°	<b>666.6</b>	<b>580.1</b>	<b>548.8</b>	<b>530.3</b>	<b>517.5</b>	<b>510.3</b>	<b>504.2</b>
75°	<b>643.2</b>	<b>567.6</b>	<b>538.9</b>	<b>518.1</b>	<b>499.9</b>	<b>486.0</b>	<b>473.2</b>
90°	<b>652.9</b>	<b>562.9</b>	<b>528.7</b>	<b>503.7</b>	<b>485.9</b>	<b>475.4</b>	<b>449.0</b>
110°	<b>662.3</b>	<b>564.1</b>	<b>526.9</b>	<b>497.2</b>	<b>470.6</b>	<b>448.1</b>	<b>417.5</b>
120°	<b>690.1</b>	<b>578.6</b>	<b>535.1</b>	<b>504.6</b>	<b>476.9</b>	<b>452.0</b>	<b>404.7</b>
135°	<b>773.0</b>	<b>629.7</b>	<b>560.7</b>	<b>527.4</b>	<b>498.7</b>	<b>472.2</b>	<b>423.0</b>
150°	<b>914.5</b>	<b>725.8</b>	<b>615.9</b>	<b>557.4</b>	<b>526.6</b>	<b>499.7</b>	<b>451.7</b>
Run VMG	<b>1056.0</b>	<b>838.1</b>	<b>707.7</b>	<b>624.5</b>	<b>565.9</b>	<b>533.3</b>	<b>482.2</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1063.7</b>	<b>865.4</b>	<b>750.3</b>	<b>686.9</b>	<b>649.7</b>	<b>629.7</b>	<b>601.7</b>
Circular Random	<b>901.3</b>	<b>731.3</b>	<b>640.9</b>	<b>588.6</b>	<b>556.3</b>	<b>534.6</b>	<b>505.2</b>
Coastal / Long Distance	<b>1062.9</b>	<b>814.7</b>	<b>681.7</b>	<b>607.7</b>	<b>567.9</b>	<b>537.3</b>	<b>482.5</b>
Non Spinnaker	<b>950.0</b>	<b>765.7</b>	<b>666.5</b>	<b>608.6</b>	<b>572.8</b>	<b>549.1</b>	<b>519.2</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>42.0°</b>	<b>41.6°</b>	<b>39.2°</b>	<b>37.5°</b>	<b>36.8°</b>	<b>36.8°</b>	<b>36.4°</b>
Beat VMG	<b>3.36</b>	<b>4.03</b>	<b>4.54</b>	<b>4.80</b>	<b>4.91</b>	<b>4.96</b>	<b>4.99</b>
52°	<b>5.12</b>	<b>6.00</b>	<b>6.42</b>	<b>6.64</b>	<b>6.76</b>	<b>6.83</b>	<b>6.87</b>
60°	<b>5.40</b>	<b>6.21</b>	<b>6.56</b>	<b>6.79</b>	<b>6.96</b>	<b>7.05</b>	<b>7.14</b>
75°	<b>5.60</b>	<b>6.34</b>	<b>6.68</b>	<b>6.95</b>	<b>7.20</b>	<b>7.41</b>	<b>7.61</b>
90°	<b>5.51</b>	<b>6.39</b>	<b>6.81</b>	<b>7.15</b>	<b>7.41</b>	<b>7.57</b>	<b>8.02</b>
110°	<b>5.44</b>	<b>6.38</b>	<b>6.83</b>	<b>7.24</b>	<b>7.65</b>	<b>8.03</b>	<b>8.62</b>
120°	<b>5.22</b>	<b>6.22</b>	<b>6.73</b>	<b>7.13</b>	<b>7.55</b>	<b>7.96</b>	<b>8.89</b>
135°	<b>4.66</b>	<b>5.72</b>	<b>6.42</b>	<b>6.83</b>	<b>7.22</b>	<b>7.62</b>	<b>8.51</b>
150°	<b>3.94</b>	<b>4.96</b>	<b>5.85</b>	<b>6.46</b>	<b>6.84</b>	<b>7.20</b>	<b>7.97</b>
Run VMG	<b>3.41</b>	<b>4.30</b>	<b>5.09</b>	<b>5.76</b>	<b>6.36</b>	<b>6.75</b>	<b>7.47</b>
Gybe Angles	<b>146.0°</b>	<b>150.0°</b>	<b>153.0°</b>	<b>166.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>