



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **171020**  
Issued On **17/10/2020**  
ORC Ref **03540000S4P**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 982kg  
Maximum **982kg**  
Minimum\* **737kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>683.3</b>	<b>0.8781</b>
Non Spin OSN	<b>657.0</b>	<b>0.9132</b>

**Sails Limitations**

Headsails **6** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 137.87**  
Flying H/S: **No**  
Spin. Pole: **No**

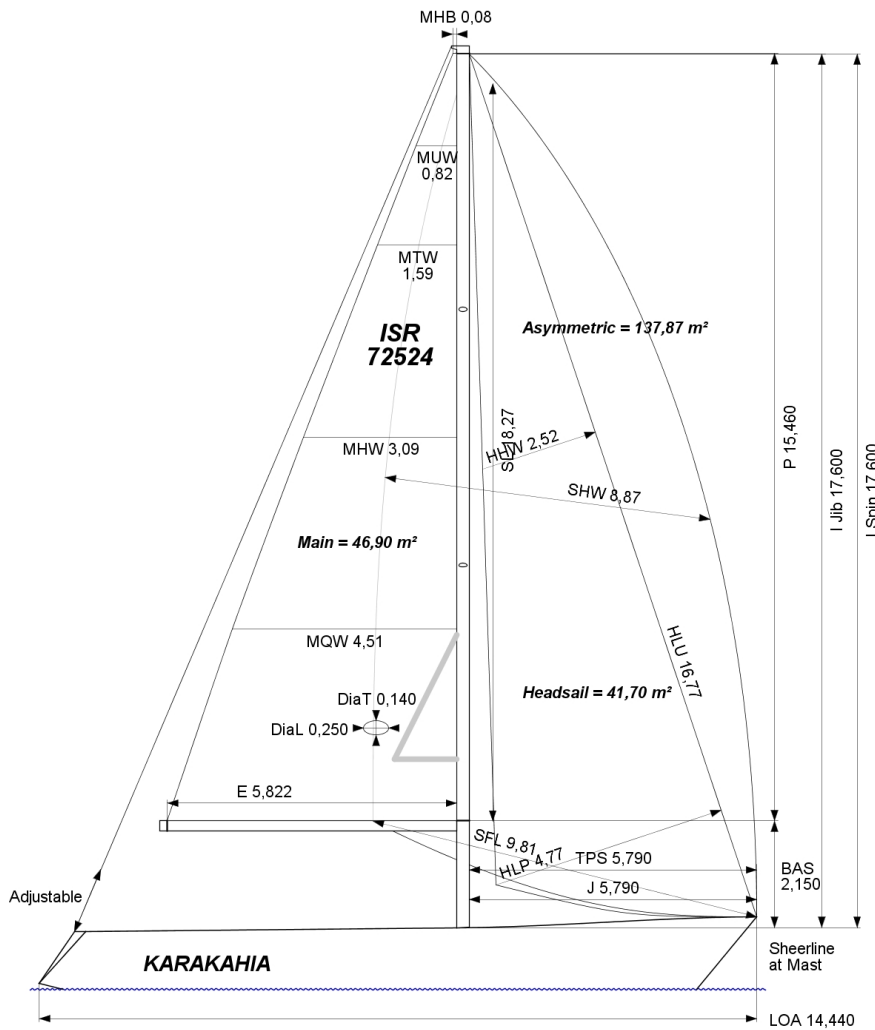
**Class Division Length**

**CDL = 10.278**

**Stability (Estimated)**

Limit Positive Stab.: **114.0°**  
Stability Index: **124.3**

**Owner**



BOAT	GPH	HULL
Name <b>Karakahia</b> Sail Nr <b>ISR 72524</b>	<b>636.5</b>	Data File <b>ISR72524</b> LOA <b>14.440m</b> Offset File <b>KarakayaCL_DV</b> MB <b>4.064m</b> Displacement <b>14,656kg</b> Draft <b>2.061m</b>
<b>CLASS</b> Class <b>Lidgard 48 Custom</b> Designer <b>Lidgard</b> Builder Series <b>08/1987</b> Age Date <b>08/1990</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.473%</b> Plan Review Construction 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> Displacement measured RR by ISO gage, check E!		IMSL <b>12.781m</b> VCGD <b>0.157m</b> Sink <b>31.64kg/mm</b> RL <b>7.773m</b> VCGM <b>0.058m</b> WS <b>45.75m²</b> LSM0 <b>12.831m</b> Displacement/Length ratio <b>6.9380</b>
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.427</b> Type <b>Folding 3 blades</b> PIPA <b>0.0018</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>615.7</b>	<b>700.0</b>
Time on Time	<b>0.9745</b>	<b>0.9643</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>759.5 556.4 480.5</b>	<b>994.3 707.5 589.9</b>
Time on Time	<b>0.8888 1.2131 1.4047</b>	<b>0.6789 0.9541 1.1443</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>Karakahia</b>
Sail Nr	<b>ISR 72524</b>
Certificate Number	<b>171020</b>
Issued On	<b>17/10/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1199.8</b>	<b>963.3</b>	<b>837.9</b>	<b>757.4</b>	<b>704.5</b>	<b>677.3</b>	<b>662.4</b>
52°	<b>759.1</b>	<b>623.9</b>	<b>551.3</b>	<b>500.4</b>	<b>471.1</b>	<b>457.4</b>	<b>450.2</b>
60°	<b>703.9</b>	<b>587.8</b>	<b>521.2</b>	<b>477.5</b>	<b>455.0</b>	<b>443.5</b>	<b>435.5</b>
75°	<b>669.1</b>	<b>562.3</b>	<b>497.7</b>	<b>461.5</b>	<b>443.1</b>	<b>431.7</b>	<b>418.2</b>
90°	<b>653.2</b>	<b>539.9</b>	<b>472.7</b>	<b>443.6</b>	<b>432.7</b>	<b>427.0</b>	<b>410.9</b>
110°	<b>642.5</b>	<b>526.9</b>	<b>463.0</b>	<b>435.9</b>	<b>419.6</b>	<b>406.2</b>	<b>388.7</b>
120°	<b>662.9</b>	<b>542.6</b>	<b>472.0</b>	<b>440.2</b>	<b>422.2</b>	<b>406.6</b>	<b>376.9</b>
135°	<b>742.1</b>	<b>595.5</b>	<b>510.2</b>	<b>459.6</b>	<b>435.3</b>	<b>418.9</b>	<b>387.2</b>
150°	<b>881.0</b>	<b>690.0</b>	<b>585.0</b>	<b>515.4</b>	<b>473.9</b>	<b>451.2</b>	<b>422.6</b>
Run VMG	<b>1017.3</b>	<b>796.8</b>	<b>675.5</b>	<b>595.2</b>	<b>547.2</b>	<b>519.5</b>	<b>452.2</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1108.6</b>	<b>880.0</b>	<b>756.7</b>	<b>676.3</b>	<b>625.8</b>	<b>598.4</b>	<b>557.3</b>
Circular Random	<b>903.3</b>	<b>718.1</b>	<b>616.0</b>	<b>554.9</b>	<b>516.8</b>	<b>492.2</b>	<b>462.6</b>
Coastal / Long Distance	<b>1099.5</b>	<b>822.0</b>	<b>672.3</b>	<b>575.8</b>	<b>523.2</b>	<b>489.2</b>	<b>439.0</b>
Non Spinnaker	<b>991.1</b>	<b>779.5</b>	<b>660.3</b>	<b>587.0</b>	<b>539.7</b>	<b>508.6</b>	<b>473.0</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>46.1°</b>	<b>44.3°</b>	<b>42.8°</b>	<b>42.0°</b>	<b>42.4°</b>	<b>42.4°</b>	<b>41.8°</b>
Beat VMG	<b>3.00</b>	<b>3.74</b>	<b>4.30</b>	<b>4.75</b>	<b>5.11</b>	<b>5.31</b>	<b>5.43</b>
52°	<b>4.74</b>	<b>5.77</b>	<b>6.53</b>	<b>7.19</b>	<b>7.64</b>	<b>7.87</b>	<b>8.00</b>
60°	<b>5.11</b>	<b>6.12</b>	<b>6.91</b>	<b>7.54</b>	<b>7.91</b>	<b>8.12</b>	<b>8.27</b>
75°	<b>5.38</b>	<b>6.40</b>	<b>7.23</b>	<b>7.80</b>	<b>8.13</b>	<b>8.34</b>	<b>8.61</b>
90°	<b>5.51</b>	<b>6.67</b>	<b>7.62</b>	<b>8.12</b>	<b>8.32</b>	<b>8.43</b>	<b>8.76</b>
110°	<b>5.60</b>	<b>6.83</b>	<b>7.78</b>	<b>8.26</b>	<b>8.58</b>	<b>8.86</b>	<b>9.26</b>
120°	<b>5.43</b>	<b>6.64</b>	<b>7.63</b>	<b>8.18</b>	<b>8.53</b>	<b>8.85</b>	<b>9.55</b>
135°	<b>4.85</b>	<b>6.05</b>	<b>7.06</b>	<b>7.83</b>	<b>8.27</b>	<b>8.59</b>	<b>9.30</b>
150°	<b>4.09</b>	<b>5.22</b>	<b>6.15</b>	<b>6.98</b>	<b>7.60</b>	<b>7.98</b>	<b>8.52</b>
Run VMG	<b>3.54</b>	<b>4.52</b>	<b>5.33</b>	<b>6.05</b>	<b>6.58</b>	<b>6.93</b>	<b>7.96</b>
Gybe Angles	<b>144.0°</b>	<b>147.0°</b>	<b>147.0°</b>	<b>147.0°</b>	<b>148.0°</b>	<b>151.0°</b>	<b>177.0°</b>