



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

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

**Rating Office**

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



**Certificate**

Number **068/20**  
Issued On **30/09/2020**  
ORC Ref **02920000R3K**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 787kg  
Maximum **830kg**  
Minimum\* **623kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>563.4</b>	<b>1.0650</b>
Non Spin OSN	<b>550.2</b>	<b>1.0905</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** 160.78  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

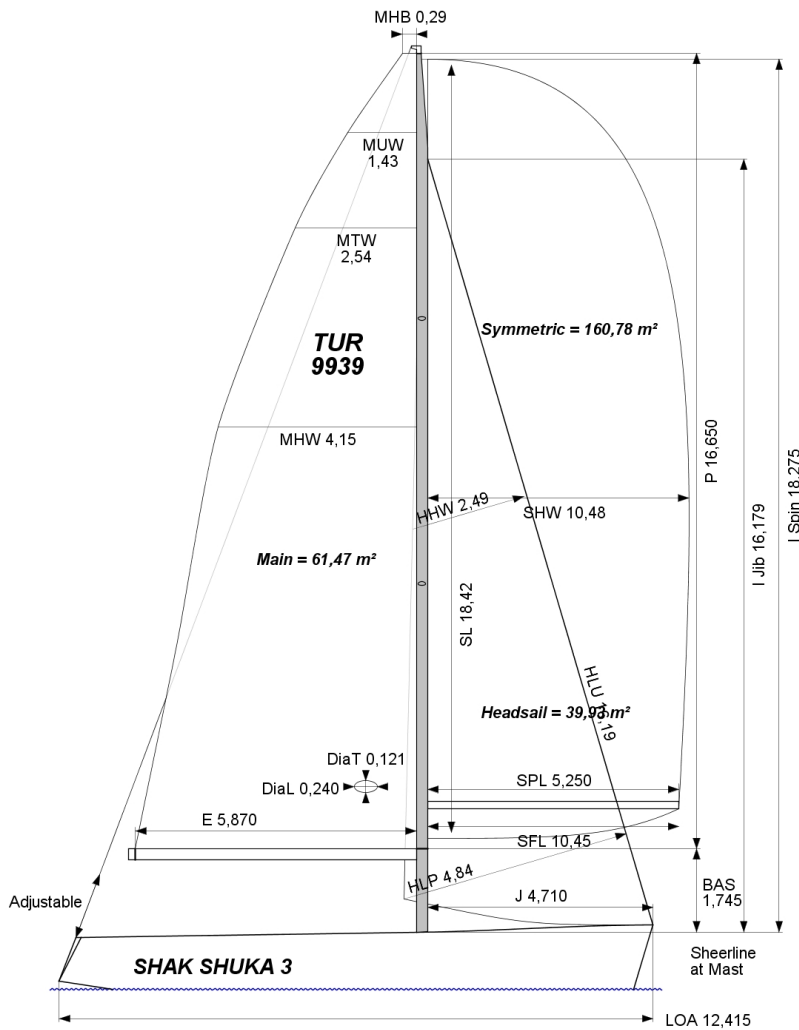
**Class Division Length**

**CDL = 11.318**

**Stability (Estimated)**

Limit Positive Stab.: **129.3°**  
Stability Index: **125.8**

**Owner**



BOAT		GPH	HULL			
Name <b>Shak Shuka 3</b> Sail Nr <b>TUR-9939</b>		<b>528.8</b>	Data File <b>TUR99391</b>	LOA <b>12.415m</b>		
			Offset File <b>FARR40.OD.OFF</b>	MB <b>3.956m</b>		
			Displacement <b>5,125kg</b>	Draft <b>2.599m</b>		
<b>CLASS</b>			IMS Division <b>Performance</b>	Dynamic All. <b>0.000%</b>		
Class <b>Farr 40</b>			Plan Review	Construction <b>Cored</b>		
Designer <b>Farr</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>Carroll</b>			Crew Arm Ex	Carbon Rudder <b>Yes</b>		
Series <b>01/1996</b>				Light Stanchions <b>No</b>		
Age Date <b>05/2000</b>			IMSL <b>11.257m</b>	VCGD <b>-0.310m</b>	Sink <b>21.16kg/mm</b>	
Age Allowance <b>0.487%</b>			RL <b>11.377m</b>	VCGM <b>-0.316m</b>	WS <b>27.96m²</b>	
<b>COMMENTS</b>			LSM0 <b>10.987m</b>	Displacement/Length ratio <b>3.8642</b>		
			Water Ballast <b>0</b>	Trim Tab <b>No</b>		
			BLR Index <b>0.0000</b>			
<b>PROPELLER</b>			<b>CENTERBOARD</b>			
Installation <b>Strut</b>	PRD <b>0.407</b>	<b>N/A</b>				
Type <b>Folding 2 blades</b>	PIPA <b>0.0035</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>514.7</b>			<b>576.1</b>		
Time on Time	<b>1.1657</b>			<b>1.1717</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>591.7</b>	<b>473.7</b>	<b>419.9</b>	<b>759.2</b>	<b>580.6</b>	<b>507.8</b>
Time on Time	<b>1.1408</b>	<b>1.4250</b>	<b>1.6076</b>	<b>0.8891</b>	<b>1.1625</b>	<b>1.3292</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>Shak Shuka 3</b>
Sail Nr	<b>TUR-9939</b>
Certificate Number	<b>068/20</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>863.1</b>	<b>707.7</b>	<b>648.4</b>	<b>626.0</b>	<b>615.3</b>	<b>600.5</b>	<b>596.8</b>
52°	<b>566.3</b>	<b>481.4</b>	<b>458.3</b>	<b>449.5</b>	<b>444.5</b>	<b>439.1</b>	<b>431.0</b>
60°	<b>534.2</b>	<b>467.2</b>	<b>445.8</b>	<b>435.6</b>	<b>429.1</b>	<b>425.1</b>	<b>411.9</b>
75°	<b>510.2</b>	<b>457.7</b>	<b>432.4</b>	<b>413.4</b>	<b>402.9</b>	<b>396.2</b>	<b>384.8</b>
90°	<b>513.3</b>	<b>457.7</b>	<b>430.5</b>	<b>404.5</b>	<b>384.1</b>	<b>370.5</b>	<b>357.1</b>
110°	<b>527.6</b>	<b>453.6</b>	<b>424.0</b>	<b>404.0</b>	<b>385.0</b>	<b>368.0</b>	<b>327.6</b>
120°	<b>541.2</b>	<b>457.0</b>	<b>420.1</b>	<b>391.0</b>	<b>371.6</b>	<b>354.2</b>	<b>319.2</b>
135°	<b>596.7</b>	<b>482.6</b>	<b>439.0</b>	<b>402.9</b>	<b>368.0</b>	<b>334.2</b>	<b>290.5</b>
150°	<b>707.2</b>	<b>562.4</b>	<b>483.3</b>	<b>441.4</b>	<b>408.6</b>	<b>376.7</b>	<b>310.3</b>
Run VMG	<b>816.6</b>	<b>649.4</b>	<b>558.1</b>	<b>502.0</b>	<b>464.7</b>	<b>432.9</b>	<b>358.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>839.8</b>	<b>678.5</b>	<b>603.3</b>	<b>564.0</b>	<b>540.0</b>	<b>516.7</b>	<b>477.5</b>
Circular Random	<b>717.0</b>	<b>584.0</b>	<b>514.1</b>	<b>473.5</b>	<b>447.2</b>	<b>427.8</b>	<b>397.9</b>
Coastal / Long Distance	<b>837.5</b>	<b>640.0</b>	<b>547.6</b>	<b>493.8</b>	<b>461.3</b>	<b>431.3</b>	<b>380.7</b>
Non Spinnaker	<b>779.7</b>	<b>628.4</b>	<b>546.8</b>	<b>498.4</b>	<b>467.3</b>	<b>445.4</b>	<b>415.7</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>41.1°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>36.8°</b>	<b>36.0°</b>	<b>36.4°</b>
Beat VMG	<b>4.17</b>	<b>5.09</b>	<b>5.55</b>	<b>5.75</b>	<b>5.85</b>	<b>5.99</b>	<b>6.03</b>
52°	<b>6.36</b>	<b>7.48</b>	<b>7.86</b>	<b>8.01</b>	<b>8.10</b>	<b>8.20</b>	<b>8.35</b>
60°	<b>6.74</b>	<b>7.71</b>	<b>8.08</b>	<b>8.27</b>	<b>8.39</b>	<b>8.47</b>	<b>8.74</b>
75°	<b>7.06</b>	<b>7.87</b>	<b>8.32</b>	<b>8.71</b>	<b>8.94</b>	<b>9.09</b>	<b>9.35</b>
90°	<b>7.01</b>	<b>7.87</b>	<b>8.36</b>	<b>8.90</b>	<b>9.37</b>	<b>9.72</b>	<b>10.08</b>
110°	<b>6.82</b>	<b>7.94</b>	<b>8.49</b>	<b>8.91</b>	<b>9.35</b>	<b>9.78</b>	<b>10.99</b>
120°	<b>6.65</b>	<b>7.88</b>	<b>8.57</b>	<b>9.21</b>	<b>9.69</b>	<b>10.16</b>	<b>11.28</b>
135°	<b>6.03</b>	<b>7.46</b>	<b>8.20</b>	<b>8.93</b>	<b>9.78</b>	<b>10.77</b>	<b>12.39</b>
150°	<b>5.09</b>	<b>6.40</b>	<b>7.45</b>	<b>8.16</b>	<b>8.81</b>	<b>9.56</b>	<b>11.60</b>
Run VMG	<b>4.41</b>	<b>5.54</b>	<b>6.45</b>	<b>7.17</b>	<b>7.75</b>	<b>8.32</b>	<b>10.05</b>
Gybe Angles	<b>143.5°</b>	<b>143.3°</b>	<b>150.0°</b>	<b>157.0°</b>	<b>172.0°</b>	<b>157.0°</b>	<b>144.5°</b>