



**ORC**

Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

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



**Certificate**

Number **7772.4**  
Issued On **07/08/2020**  
ORC Ref **03570000065**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 551kg  
Maximum **512kg**  
Minimum\* **384kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>680.8</b>	<b>0.8813</b>
Non Spin OSN	<b>660.5</b>	<b>0.9084</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **56.16**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

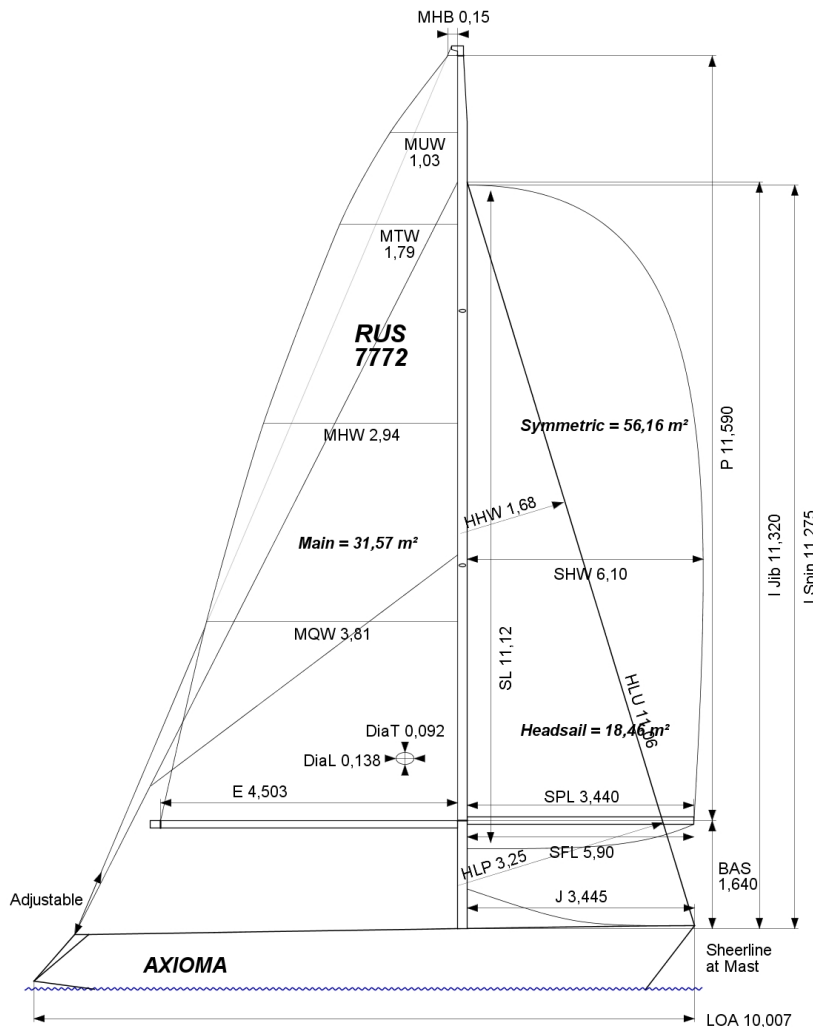
**Class Division Length**

**CDL = 8.339**

**Stability (Measured)**

Limit Positive Stab.: **112.8°**  
Stability Index: **111.9**

**Owner**



BOAT		GPH	HULL			
Name <b>AXIOMA</b> Sail Nr <b>RUS-7772</b>		<b>650.7</b>	Data File <b>RU7772_Axioma</b>	LOA <b>10.007m</b>		
			Offset File <b>X99.od.off</b>	MB <b>2.992m</b>		
			Displacement <b>3,276kg</b>	Draft <b>1.810m</b>		
<b>CLASS</b>			IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.211%</b>		
Class <b>X-99</b>			Plan Review	Construction <b>Cored</b>		
Designer <b>NIELS JEPPESEN</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>X-YACHTS</b>			Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>05/1990</b>				Light Stanchions <b>No</b>		
Age Date <b>06/1990</b>			IMSL <b>8.767m</b>	VCGD <b>-0.027m</b>	Sink <b>14.00kg/mm</b>	
Age Allowance <b>0.487%</b>			RL <b>7.922m</b>	VCGM <b>0.003m</b>	WS <b>18.96m²</b>	
<b>COMMENTS</b>			LSM0 <b>8.560m</b>	Displacement/Length ratio <b>5.2230</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>0.355</b>	<b>N/A</b>				
Type <b>Folding 2 blades</b>	PBW <b>0.095</b>					
	PIPA <b>0.0030</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>632.3</b>			<b>706.0</b>		
Time on Time	<b>0.9489</b>			<b>0.9561</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>746.9</b>	<b>575.8</b>	<b>511.9</b>	<b>968.6</b>	<b>708.0</b>	<b>615.3</b>
Time on Time	<b>0.9037</b>	<b>1.1723</b>	<b>1.3185</b>	<b>0.6969</b>	<b>0.9534</b>	<b>1.0971</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>AXIOMA</b>	Certificate Number <b>7772.4</b>
Sail Nr <b>RUS-7772</b>	Issued On <b>07/08/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1093.4</b>	<b>901.5</b>	<b>795.3</b>	<b>750.2</b>	<b>735.5</b>	<b>730.0</b>	<b>716.7</b>
52°	<b>713.5</b>	<b>601.5</b>	<b>548.5</b>	<b>528.7</b>	<b>521.4</b>	<b>517.9</b>	<b>510.2</b>
60°	<b>673.7</b>	<b>574.9</b>	<b>533.9</b>	<b>515.5</b>	<b>506.3</b>	<b>501.7</b>	<b>495.4</b>
75°	<b>647.5</b>	<b>556.8</b>	<b>522.5</b>	<b>502.1</b>	<b>486.4</b>	<b>475.1</b>	<b>466.2</b>
90°	<b>652.1</b>	<b>550.1</b>	<b>512.8</b>	<b>495.0</b>	<b>478.3</b>	<b>459.2</b>	<b>433.7</b>
110°	<b>655.4</b>	<b>546.8</b>	<b>506.9</b>	<b>477.9</b>	<b>451.5</b>	<b>434.4</b>	<b>410.0</b>
120°	<b>680.1</b>	<b>560.3</b>	<b>513.7</b>	<b>483.6</b>	<b>454.1</b>	<b>426.6</b>	<b>387.3</b>
135°	<b>761.1</b>	<b>615.9</b>	<b>540.2</b>	<b>505.8</b>	<b>477.2</b>	<b>447.9</b>	<b>390.2</b>
150°	<b>910.4</b>	<b>717.4</b>	<b>603.3</b>	<b>538.0</b>	<b>506.1</b>	<b>479.3</b>	<b>425.6</b>
Run VMG	<b>1051.3</b>	<b>828.3</b>	<b>695.9</b>	<b>609.5</b>	<b>550.3</b>	<b>514.8</b>	<b>462.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1072.3</b>	<b>864.9</b>	<b>745.6</b>	<b>679.9</b>	<b>642.9</b>	<b>622.4</b>	<b>589.7</b>
Circular Random	<b>897.4</b>	<b>723.9</b>	<b>631.1</b>	<b>577.4</b>	<b>544.3</b>	<b>521.9</b>	<b>491.0</b>
Coastal / Long Distance	<b>1070.2</b>	<b>812.1</b>	<b>673.3</b>	<b>596.6</b>	<b>556.4</b>	<b>523.9</b>	<b>467.9</b>
Non Spinnaker	<b>953.0</b>	<b>762.5</b>	<b>659.3</b>	<b>599.0</b>	<b>561.9</b>	<b>537.4</b>	<b>505.1</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>41.3°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>38.3°</b>	<b>38.6°</b>
Beat VMG	<b>3.29</b>	<b>3.99</b>	<b>4.53</b>	<b>4.80</b>	<b>4.89</b>	<b>4.93</b>	<b>5.02</b>
52°	<b>5.05</b>	<b>5.98</b>	<b>6.56</b>	<b>6.81</b>	<b>6.90</b>	<b>6.95</b>	<b>7.06</b>
60°	<b>5.34</b>	<b>6.26</b>	<b>6.74</b>	<b>6.98</b>	<b>7.11</b>	<b>7.18</b>	<b>7.27</b>
75°	<b>5.56</b>	<b>6.46</b>	<b>6.89</b>	<b>7.17</b>	<b>7.40</b>	<b>7.58</b>	<b>7.72</b>
90°	<b>5.52</b>	<b>6.54</b>	<b>7.02</b>	<b>7.27</b>	<b>7.53</b>	<b>7.84</b>	<b>8.30</b>
110°	<b>5.49</b>	<b>6.58</b>	<b>7.10</b>	<b>7.53</b>	<b>7.97</b>	<b>8.29</b>	<b>8.78</b>
120°	<b>5.29</b>	<b>6.43</b>	<b>7.01</b>	<b>7.44</b>	<b>7.93</b>	<b>8.44</b>	<b>9.29</b>
135°	<b>4.73</b>	<b>5.85</b>	<b>6.66</b>	<b>7.12</b>	<b>7.54</b>	<b>8.04</b>	<b>9.23</b>
150°	<b>3.95</b>	<b>5.02</b>	<b>5.97</b>	<b>6.69</b>	<b>7.11</b>	<b>7.51</b>	<b>8.46</b>
Run VMG	<b>3.42</b>	<b>4.35</b>	<b>5.17</b>	<b>5.91</b>	<b>6.54</b>	<b>6.99</b>	<b>7.78</b>
Gybe Angles	<b>145.0°</b>	<b>149.5°</b>	<b>151.0°</b>	<b>159.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>