



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **US6492**  
Issued On **24/07/2020**  
ORC Ref **03410000N4R**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 581kg  
Maximum **581kg**  
Minimum\* **436kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **613.8 0.9775**  
Non Spin OSN **600.1 0.9999**

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes 65.51**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

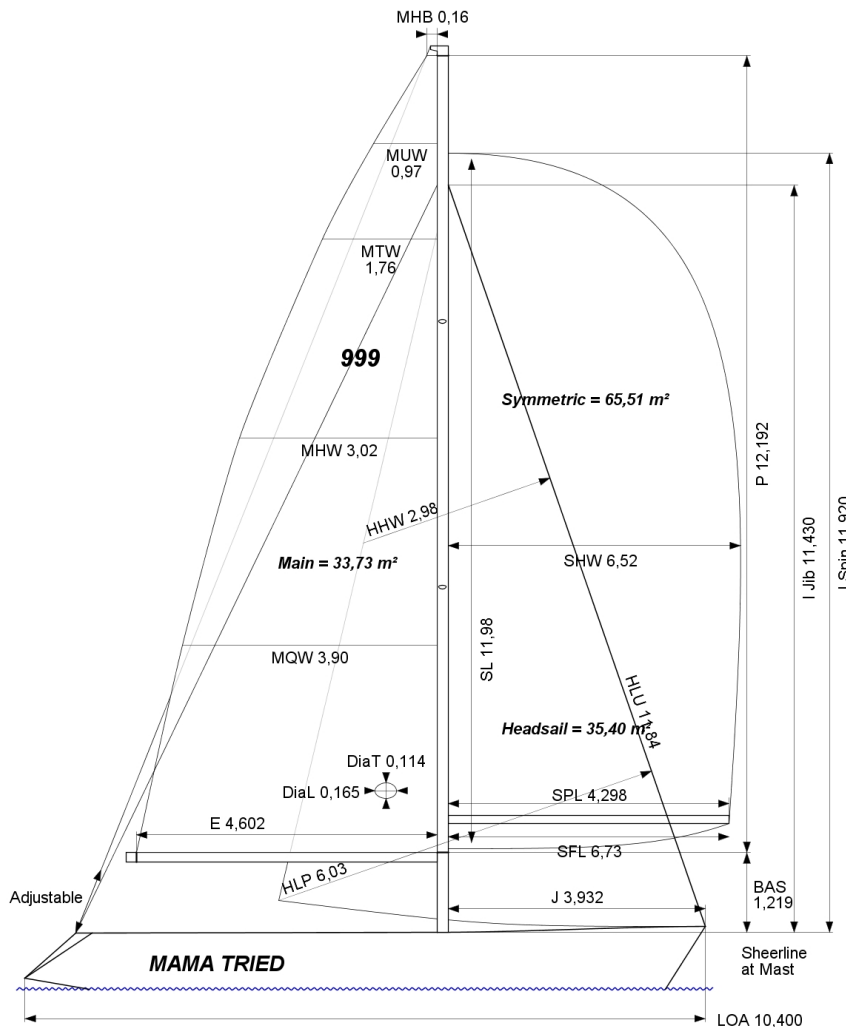
**Class Division Length**

**CDL = 9.147**

**Stability (Estimated)**

Limit Positive Stab.: **117.0°**  
Stability Index: **114.0**

**Owner**



<b>BOAT</b> Name <b>MAMA TRIED</b> Sail Nr <b>999</b>		<b>GPH</b> <b>599.6</b>	<b>HULL</b> Data File <b>US6492a</b> LOA <b>10.400m</b> Offset File <b>H160_USA999.off</b> MB <b>3.064m</b> Displacement <b>3,031kg</b> Draft <b>1.821m</b>			
<b>CLASS</b> Class <b>First Class 10 M</b> Designer <b>Finot</b> Builder <b>Beneteau</b> Series <b>01/1983</b> Age Date <b>12/1984</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.001%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>		IMSL <b>9.146m</b> VCGD <b>-0.394m</b> Sink <b>14.83kg/mm</b> RL <b>9.147m</b> VCGM <b>-0.132m</b> WS <b>19.94m²</b> LSM0 <b>8.881m</b> Displacement/Length ratio <b>4.3271</b>		
<b>COMMENTS</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>				
<b>PROPELLER</b> Type <b>No Propeller</b>		<b>CENTERBOARD</b> <b>N/A</b>				
<b>SCORING OPTIONS</b>						
Time on Distance	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
	<b>585.0</b>			<b>657.8</b>		
Time on Time	<b>1.0256</b>			<b>1.0261</b>		
Triple Number	Low	Medium	High	Low	Medium	High
	<b>677.0</b>	<b>534.8</b>	<b>475.9</b>	<b>879.2</b>	<b>660.9</b>	<b>582.7</b>
Time on Distance	<b>0.9971</b>	<b>1.2622</b>	<b>1.4184</b>	<b>0.7677</b>	<b>1.0213</b>	<b>1.1584</b>
Time on Time	<b>0.9971</b>	<b>1.2622</b>	<b>1.4184</b>	<b>0.7677</b>	<b>1.0213</b>	<b>1.1584</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>							
Name	<b>MAMA TRIED</b>	Certificate Number	<b>US6492</b>				
Sail Nr	<b>999</b>	Issued On	<b>24/07/2020</b>				

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>948.8</b>	<b>787.0</b>	<b>725.9</b>	<b>698.2</b>	<b>683.2</b>	<b>681.4</b>	<b>693.0</b>
52°	<b>617.9</b>	<b>530.4</b>	<b>506.8</b>	<b>496.3</b>	<b>490.0</b>	<b>486.4</b>	<b>488.3</b>
60°	<b>581.5</b>	<b>514.9</b>	<b>492.6</b>	<b>480.9</b>	<b>473.3</b>	<b>467.6</b>	<b>466.4</b>
75°	<b>556.1</b>	<b>504.5</b>	<b>477.2</b>	<b>457.8</b>	<b>446.0</b>	<b>438.5</b>	<b>429.9</b>
90°	<b>556.9</b>	<b>502.7</b>	<b>473.3</b>	<b>445.5</b>	<b>424.2</b>	<b>411.1</b>	<b>396.7</b>
110°	<b>617.3</b>	<b>520.6</b>	<b>479.5</b>	<b>443.7</b>	<b>413.5</b>	<b>393.8</b>	<b>364.6</b>
120°	<b>646.4</b>	<b>530.7</b>	<b>486.4</b>	<b>449.8</b>	<b>415.0</b>	<b>382.7</b>	<b>339.8</b>
135°	<b>719.4</b>	<b>577.8</b>	<b>511.9</b>	<b>477.6</b>	<b>443.5</b>	<b>410.7</b>	<b>344.2</b>
150°	<b>861.5</b>	<b>681.2</b>	<b>571.3</b>	<b>511.4</b>	<b>479.1</b>	<b>447.6</b>	<b>387.2</b>
Run VMG	<b>994.8</b>	<b>786.5</b>	<b>659.6</b>	<b>580.6</b>	<b>527.4</b>	<b>492.1</b>	<b>434.1</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>971.8</b>	<b>786.8</b>	<b>692.8</b>	<b>639.4</b>	<b>605.3</b>	<b>586.8</b>	<b>563.6</b>
Circular Random	<b>817.4</b>	<b>664.0</b>	<b>582.6</b>	<b>535.2</b>	<b>505.4</b>	<b>485.3</b>	<b>458.4</b>
Coastal / Long Distance	<b>974.1</b>	<b>740.9</b>	<b>626.0</b>	<b>557.4</b>	<b>517.0</b>	<b>484.4</b>	<b>432.3</b>
Non Spinnaker	<b>841.0</b>	<b>681.4</b>	<b>596.1</b>	<b>546.3</b>	<b>515.0</b>	<b>493.9</b>	<b>466.1</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>43.5°</b>	<b>42.0°</b>	<b>40.1°</b>	<b>38.6°</b>	<b>37.9°</b>	<b>37.9°</b>	<b>39.2°</b>
Beat VMG	<b>3.79</b>	<b>4.57</b>	<b>4.96</b>	<b>5.16</b>	<b>5.27</b>	<b>5.28</b>	<b>5.19</b>
52°	<b>5.83</b>	<b>6.79</b>	<b>7.10</b>	<b>7.25</b>	<b>7.35</b>	<b>7.40</b>	<b>7.37</b>
60°	<b>6.19</b>	<b>6.99</b>	<b>7.31</b>	<b>7.49</b>	<b>7.61</b>	<b>7.70</b>	<b>7.72</b>
75°	<b>6.47</b>	<b>7.14</b>	<b>7.54</b>	<b>7.86</b>	<b>8.07</b>	<b>8.21</b>	<b>8.37</b>
90°	<b>6.46</b>	<b>7.16</b>	<b>7.61</b>	<b>8.08</b>	<b>8.49</b>	<b>8.76</b>	<b>9.07</b>
110°	<b>5.83</b>	<b>6.92</b>	<b>7.51</b>	<b>8.11</b>	<b>8.71</b>	<b>9.14</b>	<b>9.87</b>
120°	<b>5.57</b>	<b>6.78</b>	<b>7.40</b>	<b>8.00</b>	<b>8.67</b>	<b>9.41</b>	<b>10.59</b>
135°	<b>5.00</b>	<b>6.23</b>	<b>7.03</b>	<b>7.54</b>	<b>8.12</b>	<b>8.77</b>	<b>10.46</b>
150°	<b>4.18</b>	<b>5.29</b>	<b>6.30</b>	<b>7.04</b>	<b>7.51</b>	<b>8.04</b>	<b>9.30</b>
Run VMG	<b>3.62</b>	<b>4.58</b>	<b>5.46</b>	<b>6.20</b>	<b>6.83</b>	<b>7.32</b>	<b>8.29</b>
Gybe Angles	<b>140.5°</b>	<b>148.0°</b>	<b>150.0°</b>	<b>157.5°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>