



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

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

**Rating Office**

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



**Certificate**

Number **121/20**  
Issued On **21/07/2020**  
ORC Ref **0388000MTI**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 790kg  
Maximum **850kg**  
Minimum\* **638kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>604.4</b>	<b>0.9927</b>
Non Spin OSN	<b>588.0</b>	<b>1.0203</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** 137.08  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

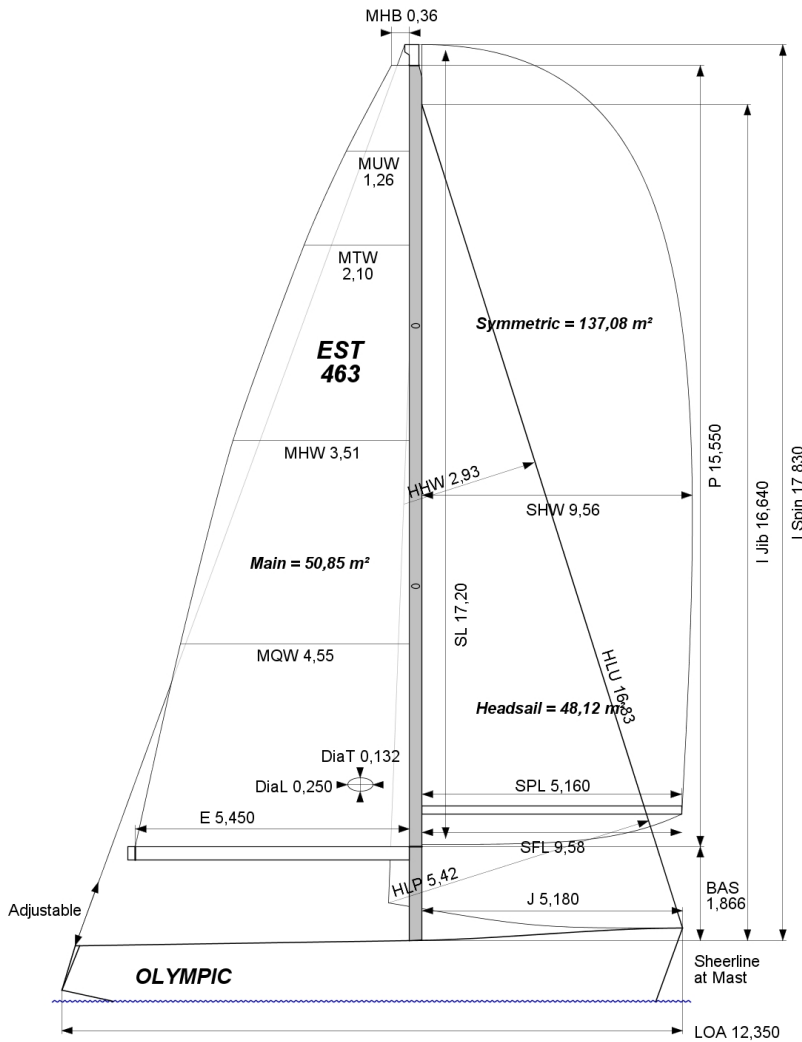
**Class Division Length**

**CDL = 10.656**

**Stability (Measured)**

Limit Positive Stab.: **129.3°**  
Stability Index: **133.0**

**Owner**



BOAT		GPH		HULL			
Name <b>OLYMPIC</b> Sail Nr <b>EST 463</b>		<b>570.8</b>		Data File <b>EST463</b>	LOA <b>12.350m</b>		
				Offset File <b>EST463.off</b>	MB <b>3.646m</b>		
				Displacement <b>6,928kg</b>	Draft <b>2.342m</b>		
				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.009%</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			
				IMSL <b>11.128m</b>	VCGD <b>-0.185m</b>	Sink <b>23.00kg/mm</b>	
				RL <b>10.200m</b>	VCGM <b>-0.205m</b>	WS <b>31.56m²</b>	
				LSMO <b>11.018m</b> Displacement/Length ratio <b>5.1796</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>CLASS</b>							
Class <b>X-41 mod</b>							
Designer <b>JEPPESEN</b>							
Builder <b>X YACHTS</b>							
Series <b>01/2006</b>							
Age Date <b>06/2017</b>							
Age Allowance <b>0.455%</b>							
<b>COMMENTS</b>							
<b>PROPELLER</b>							
Installation <b>Strut</b>		PRD <b>0.430</b>					
Type <b>Folding 2 blades</b>		PBW <b>0.125</b>					
		PIPA <b>0.0032</b>					
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time on Distance	<b>554.8</b>			<b>620.1</b>			
Time on Time	<b>1.0816</b>			<b>1.0886</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>651.9</b>	<b>506.1</b>	<b>451.8</b>	<b>841.4</b>	<b>622.0</b>	<b>542.7</b>	
Time on Time	<b>1.0355</b>	<b>1.3336</b>	<b>1.4941</b>	<b>0.8022</b>	<b>1.0852</b>	<b>1.2438</b>	

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>OLYMPIC</b>	Certificate Number	<b>121/20</b>
Sail Nr	<b>EST 463</b>	Issued On	<b>21/07/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>959.8</b>	<b>787.6</b>	<b>695.4</b>	<b>661.2</b>	<b>647.0</b>	<b>639.1</b>	<b>625.4</b>
52°	<b>626.9</b>	<b>524.0</b>	<b>479.2</b>	<b>464.5</b>	<b>458.7</b>	<b>455.8</b>	<b>448.1</b>
60°	<b>591.1</b>	<b>502.3</b>	<b>467.0</b>	<b>452.4</b>	<b>446.1</b>	<b>442.6</b>	<b>435.5</b>
75°	<b>563.9</b>	<b>488.2</b>	<b>458.3</b>	<b>440.6</b>	<b>427.8</b>	<b>420.6</b>	<b>414.1</b>
90°	<b>568.8</b>	<b>489.3</b>	<b>457.7</b>	<b>438.1</b>	<b>420.0</b>	<b>404.3</b>	<b>385.8</b>
110°	<b>583.5</b>	<b>484.5</b>	<b>447.1</b>	<b>423.6</b>	<b>408.9</b>	<b>395.6</b>	<b>374.9</b>
120°	<b>597.4</b>	<b>492.4</b>	<b>451.2</b>	<b>423.8</b>	<b>397.9</b>	<b>379.8</b>	<b>354.6</b>
135°	<b>660.3</b>	<b>533.1</b>	<b>470.5</b>	<b>441.1</b>	<b>414.5</b>	<b>388.1</b>	<b>334.7</b>
150°	<b>780.0</b>	<b>621.5</b>	<b>525.3</b>	<b>471.5</b>	<b>443.7</b>	<b>419.1</b>	<b>370.8</b>
Run VMG	<b>900.7</b>	<b>717.7</b>	<b>606.5</b>	<b>537.9</b>	<b>492.8</b>	<b>458.5</b>	<b>411.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>930.3</b>	<b>752.6</b>	<b>651.0</b>	<b>599.5</b>	<b>569.9</b>	<b>548.8</b>	<b>518.4</b>
Circular Random	<b>784.1</b>	<b>633.7</b>	<b>553.8</b>	<b>507.8</b>	<b>479.4</b>	<b>460.2</b>	<b>433.5</b>
Coastal / Long Distance	<b>927.3</b>	<b>707.4</b>	<b>588.9</b>	<b>525.0</b>	<b>490.1</b>	<b>461.7</b>	<b>415.4</b>
Non Spinnaker	<b>844.5</b>	<b>676.5</b>	<b>585.6</b>	<b>532.3</b>	<b>499.1</b>	<b>476.9</b>	<b>447.6</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>43.1°</b>	<b>41.8°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.6°</b>	<b>38.3°</b>	<b>38.1°</b>
Beat VMG	<b>3.75</b>	<b>4.57</b>	<b>5.18</b>	<b>5.44</b>	<b>5.56</b>	<b>5.63</b>	<b>5.76</b>
52°	<b>5.74</b>	<b>6.87</b>	<b>7.51</b>	<b>7.75</b>	<b>7.85</b>	<b>7.90</b>	<b>8.03</b>
60°	<b>6.09</b>	<b>7.17</b>	<b>7.71</b>	<b>7.96</b>	<b>8.07</b>	<b>8.13</b>	<b>8.27</b>
75°	<b>6.38</b>	<b>7.37</b>	<b>7.86</b>	<b>8.17</b>	<b>8.42</b>	<b>8.56</b>	<b>8.69</b>
90°	<b>6.33</b>	<b>7.36</b>	<b>7.86</b>	<b>8.22</b>	<b>8.57</b>	<b>8.90</b>	<b>9.33</b>
110°	<b>6.17</b>	<b>7.43</b>	<b>8.05</b>	<b>8.50</b>	<b>8.80</b>	<b>9.10</b>	<b>9.60</b>
120°	<b>6.03</b>	<b>7.31</b>	<b>7.98</b>	<b>8.49</b>	<b>9.05</b>	<b>9.48</b>	<b>10.15</b>
135°	<b>5.45</b>	<b>6.75</b>	<b>7.65</b>	<b>8.16</b>	<b>8.69</b>	<b>9.28</b>	<b>10.76</b>
150°	<b>4.62</b>	<b>5.79</b>	<b>6.85</b>	<b>7.64</b>	<b>8.11</b>	<b>8.59</b>	<b>9.71</b>
Run VMG	<b>4.00</b>	<b>5.02</b>	<b>5.94</b>	<b>6.69</b>	<b>7.31</b>	<b>7.85</b>	<b>8.75</b>
Gybe Angles	<b>143.1°</b>	<b>147.0°</b>	<b>150.0°</b>	<b>156.0°</b>	<b>170.0°</b>	<b>180.0°</b>	<b>180.0°</b>