



World Leader in Rating Technology

### 2016 ORC Club Certificate

#### Rating Office

ORC  
Central Rating Office  
issuing certificates for  
CANADA



#### Certificate

Number **039/16**  
Issued On **1.4.2016**.  
ORC Ref **CAN00062264**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016**.

#### Crew Weight

Declared **748kg**  
Default\* **748kg**  
Non Manual Pwr **No**

#### Special Scoring

ToD ToT  
Non Spin GPH **625.6 0.9591**  
Non Spin OSN **608.0 0.9868**  
N/S Perf. Line **9.5 0.624**

#### Sails Limitations

Headsails **6** Spinnakers **3**

#### Spinnaker configuration

Sy mmetric: **Yes 97.83**  
Asy mmetric: **Yes 94.95**  
Flying H/S: **No**  
Spin. Pole: **Yes**

#### Class Division Length

CDL = **10.106**

#### Stability

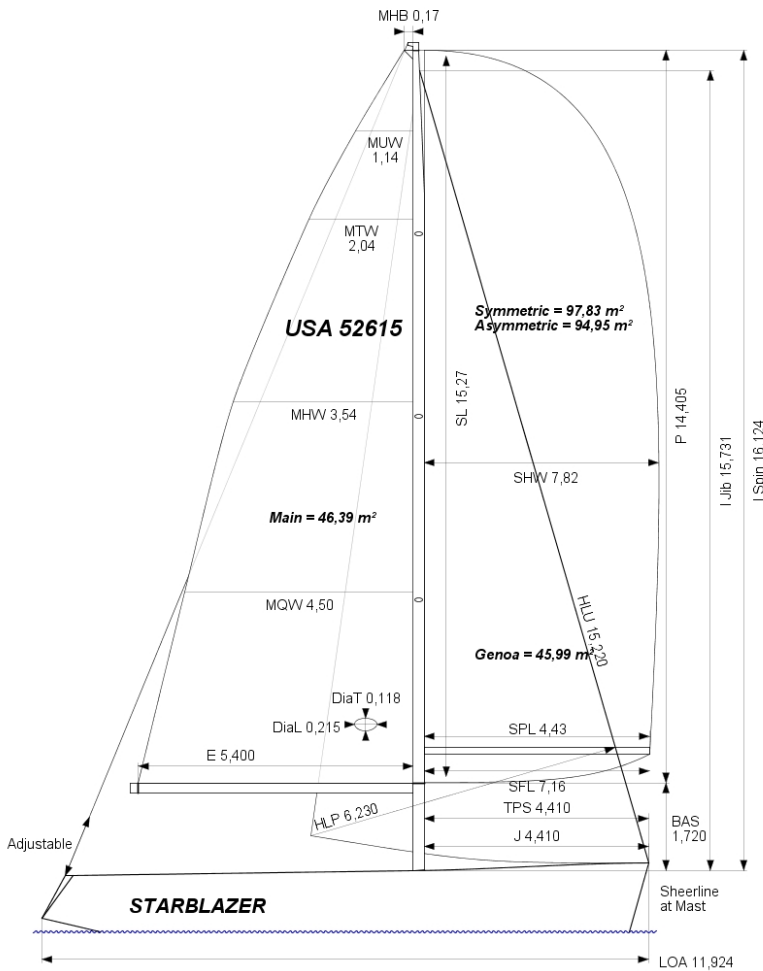
LPS (Estimated): **121.0°**  
Stability Index: **124.1**  
OSR Category: **N/A**

#### Owner

Robert Hennessey  
2597 William E  
Sutton, WA  
USA

I certify that I understand my  
responsibilities under ORC Rules and  
Regulations

Signature



<b>BOAT</b> Name <b>Starblazer</b> Sail Nr <b>USA 52615</b>		<b>GPH</b> <b>602.4</b>	<b>HULL</b> Data File <b>USA52615.dxt</b> LOA <b>11.924m</b> Off set File <b>EFRST407.OFF</b> MB <b>3.770m</b> Displacement <b>7,332kg</b> Draft <b>2.426m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.051%</b> Fwd Accom. <b>Yes</b> Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions <b>No</b>			
<b>CLASS</b> Class <b>First 40.7</b> Designer <b>Farr</b> Builder <b>Beneteau</b> Series <b>12.1997</b> Age Date <b>01.2005</b> Age Allowance <b>0.487%</b>			IMSL <b>10.678m</b> VCGD <b>-0.261m</b> Sink <b>22.38kg/mm</b> RL <b>9.532m</b> VCGM <b>-0.029m</b> WS <b>29.97m2</b> LSM0 <b>10.604m</b> Displacement/Length ratio <b>6.1491</b>			
<b>COMMENTS</b>			Water Ballast <b>0</b> Trim Tab <b>No</b>			
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.435</b> Type <b>Folding 2 blades</b> PBW <b>0.110</b> PIPA <b>0.0032</b>			<b>CENTERBOARD</b> <b>N/A</b>			
<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b> COASTAL / LONG DISTANCE			<b>INSHORE</b> WINDWARD / LEEWARD		
Time On Distance	<b>585.2</b>			<b>652.6</b>		
Time On Time	<b>1.0252</b>			<b>1.0343</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.682</b>	<b>30.0</b>		<b>0.827</b>	<b>171.2</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0.9674</b>	<b>1.2685</b>	<b>1.4401</b>	<b>0.7436</b>	<b>1.0248</b>	<b>1.2054</b>



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# 2016

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>Starblazer</b>
Certificate Number	<b>039/16</b>
Sail Nr	<b>USA 52615</b>
Issued On	<b>1.4.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1018.3</b>	<b>843.8</b>	<b>739.0</b>	<b>683.9</b>	<b>657.8</b>	<b>643.7</b>	<b>633.2</b>
52°	<b>662.8</b>	<b>555.5</b>	<b>497.6</b>	<b>474.9</b>	<b>466.2</b>	<b>461.5</b>	<b>457.4</b>
60°	<b>623.2</b>	<b>525.4</b>	<b>481.7</b>	<b>462.8</b>	<b>453.6</b>	<b>448.2</b>	<b>443.2</b>
75°	<b>589.6</b>	<b>503.9</b>	<b>470.6</b>	<b>451.8</b>	<b>437.1</b>	<b>426.7</b>	<b>418.0</b>
90°	<b>591.5</b>	<b>505.2</b>	<b>471.4</b>	<b>452.2</b>	<b>436.0</b>	<b>419.6</b>	<b>396.5</b>
110°	<b>625.8</b>	<b>515.1</b>	<b>470.8</b>	<b>447.0</b>	<b>424.7</b>	<b>408.1</b>	<b>388.9</b>
120°	<b>647.9</b>	<b>531.9</b>	<b>478.7</b>	<b>453.2</b>	<b>430.6</b>	<b>407.9</b>	<b>373.0</b>
135°	<b>723.1</b>	<b>585.5</b>	<b>507.1</b>	<b>470.6</b>	<b>448.3</b>	<b>426.7</b>	<b>384.3</b>
150°	<b>855.4</b>	<b>676.3</b>	<b>571.6</b>	<b>504.9</b>	<b>471.3</b>	<b>450.2</b>	<b>409.9</b>
Run VMG	<b>987.8</b>	<b>780.9</b>	<b>659.6</b>	<b>578.0</b>	<b>522.6</b>	<b>482.7</b>	<b>439.9</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1003.0</b>	<b>812.4</b>	<b>699.3</b>	<b>631.0</b>	<b>590.2</b>	<b>563.2</b>	<b>536.6</b>
Circular Random	<b>835.6</b>	<b>672.5</b>	<b>584.2</b>	<b>532.3</b>	<b>499.9</b>	<b>478.5</b>	<b>452.1</b>
Ocean for PCS	<b>1028.6</b>	<b>791.2</b>	<b>656.8</b>	<b>574.3</b>	<b>520.8</b>	<b>483.5</b>	<b>432.4</b>
Non Spinnaker	<b>876.8</b>	<b>701.9</b>	<b>606.2</b>	<b>549.3</b>	<b>513.7</b>	<b>490.1</b>	<b>460.4</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>43.6°</b>	<b>42.2°</b>	<b>41.9°</b>	<b>40.0°</b>	<b>38.8°</b>	<b>38.0°</b>	<b>37.5°</b>
Beat VMG	<b>3.54</b>	<b>4.27</b>	<b>4.87</b>	<b>5.26</b>	<b>5.47</b>	<b>5.59</b>	<b>5.69</b>
52°	<b>5.43</b>	<b>6.48</b>	<b>7.24</b>	<b>7.58</b>	<b>7.72</b>	<b>7.80</b>	<b>7.87</b>
60°	<b>5.78</b>	<b>6.85</b>	<b>7.47</b>	<b>7.78</b>	<b>7.94</b>	<b>8.03</b>	<b>8.12</b>
75°	<b>6.11</b>	<b>7.14</b>	<b>7.65</b>	<b>7.97</b>	<b>8.24</b>	<b>8.44</b>	<b>8.61</b>
90°	<b>6.09</b>	<b>7.13</b>	<b>7.64</b>	<b>7.96</b>	<b>8.26</b>	<b>8.58</b>	<b>9.08</b>
110°	<b>5.75</b>	<b>6.99</b>	<b>7.65</b>	<b>8.05</b>	<b>8.48</b>	<b>8.82</b>	<b>9.26</b>
120°	<b>5.56</b>	<b>6.77</b>	<b>7.52</b>	<b>7.94</b>	<b>8.36</b>	<b>8.83</b>	<b>9.65</b>
135°	<b>4.98</b>	<b>6.15</b>	<b>7.10</b>	<b>7.65</b>	<b>8.03</b>	<b>8.44</b>	<b>9.37</b>
150°	<b>4.21</b>	<b>5.32</b>	<b>6.30</b>	<b>7.13</b>	<b>7.64</b>	<b>8.00</b>	<b>8.78</b>
Run VMG	<b>3.64</b>	<b>4.61</b>	<b>5.46</b>	<b>6.23</b>	<b>6.89</b>	<b>7.46</b>	<b>8.18</b>
Gybe Angles	<b>145.0°</b>	<b>149.6°</b>	<b>151.5°</b>	<b>155.4°</b>	<b>170.5°</b>	<b>180.0°</b>	<b>180.0°</b>