



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

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

**Rating Office**

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



**Certificate**

Number **US6597**  
Issued On **16/09/2020**  
ORC Ref **03410000QFK**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 926kg  
Maximum **953kg**  
Minimum\* **715kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>594.7</b>	<b>1.0089</b>
Non Spin OSN	<b>580.3</b>	<b>1.0339</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 175.84**  
Flying H/S: **No**  
Spin. Pole: **No**

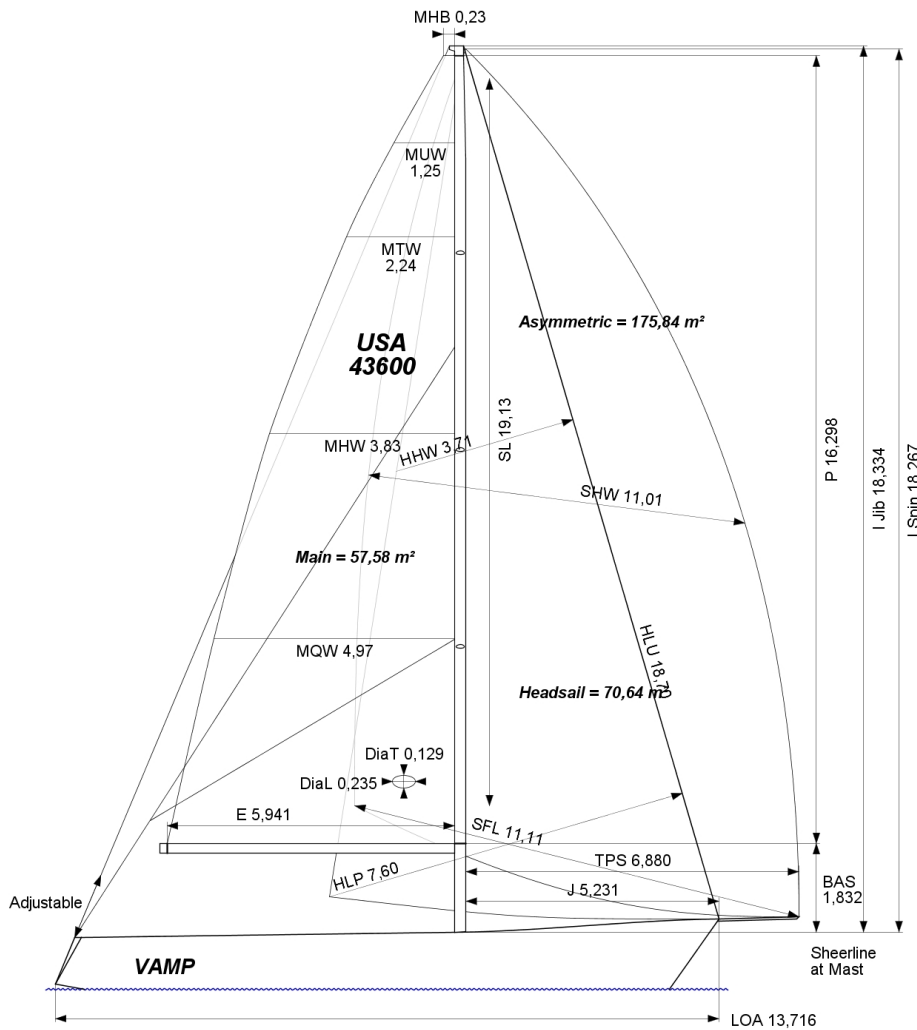
**Class Division Length**

**CDL = 11.504**

**Stability (Measured)**

Limit Positive Stab.: **111.5°**  
Stability Index: **117.1**

**Owner**



BOAT	GPH	HULL
Name <b>VAMP</b> Sail Nr <b>USA-43600</b>	<b>565.1</b>	Data File <b>US6597</b> LOA <b>13.716m</b> Offset File <b>us19844.off</b> MB <b>4.206m</b> Displacement <b>10,835kg</b> Draft <b>2.460m</b>
<b>CLASS</b> Class <b>J442</b> Designer <b>JOHNSTONE</b> Builder <b>T/P</b> Series <b>05/1989</b> Age Date <b>04/1990</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.027%</b> Plan Review Construction <b>Cored</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex <b>0.00</b> Carbon Rudder <b>No</b> Light Stanchions <b>No</b>
<b>COMMENTS</b> IRC FLOAT FBD AJD 24 GAL FUEL FBD ADJ IRC SCALE = 24008		IMSL <b>12.229m</b> VCGD <b>0.014m</b> Sink <b>29.91kg/mm</b> RL <b>10.779m</b> VCGM <b>0.003m</b> WS <b>39.85m²</b> LSM0 <b>12.313m</b> Displacement/Length ratio <b>5.8041</b>
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.510</b> Type <b>Folding 2 blades</b> PBW <b>0.132</b> PIPA <b>0.0038</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
		<b>CENTERBOARD</b> <b>NA</b>
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>550.2</b>	<b>616.9</b>
Time on Time	<b>1.0905</b>	<b>1.0941</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>644.5 500.8 451.5</b>	<b>834.6 618.8 542.8</b>
Time on Time	<b>1.0473 1.3478 1.4950</b>	<b>0.8088 1.0908 1.2435</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>VAMP</b>	Certificate Number	<b>US6597</b>
Sail Nr	<b>USA-43600</b>	Issued On	<b>16/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>925.1</b>	<b>766.5</b>	<b>681.2</b>	<b>643.2</b>	<b>624.9</b>	<b>614.1</b>	<b>603.0</b>
52°	<b>608.1</b>	<b>512.0</b>	<b>468.7</b>	<b>454.0</b>	<b>447.5</b>	<b>444.0</b>	<b>441.2</b>
60°	<b>575.4</b>	<b>490.9</b>	<b>457.2</b>	<b>443.5</b>	<b>437.0</b>	<b>433.2</b>	<b>429.4</b>
75°	<b>550.6</b>	<b>477.5</b>	<b>448.9</b>	<b>434.0</b>	<b>423.6</b>	<b>417.0</b>	<b>409.7</b>
90°	<b>556.0</b>	<b>479.3</b>	<b>448.1</b>	<b>431.4</b>	<b>418.0</b>	<b>405.8</b>	<b>388.3</b>
110°	<b>581.8</b>	<b>481.2</b>	<b>441.9</b>	<b>421.7</b>	<b>405.6</b>	<b>394.7</b>	<b>376.7</b>
120°	<b>595.5</b>	<b>490.2</b>	<b>446.1</b>	<b>423.4</b>	<b>402.7</b>	<b>383.5</b>	<b>359.6</b>
135°	<b>669.2</b>	<b>536.5</b>	<b>467.3</b>	<b>437.7</b>	<b>416.8</b>	<b>395.3</b>	<b>354.2</b>
150°	<b>794.0</b>	<b>632.0</b>	<b>531.5</b>	<b>472.7</b>	<b>447.2</b>	<b>430.3</b>	<b>398.5</b>
Run VMG	<b>916.9</b>	<b>729.7</b>	<b>613.7</b>	<b>545.8</b>	<b>514.8</b>	<b>483.6</b>	<b>434.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>921.0</b>	<b>748.1</b>	<b>647.5</b>	<b>594.5</b>	<b>569.9</b>	<b>548.9</b>	<b>518.7</b>
Circular Random	<b>774.8</b>	<b>626.7</b>	<b>548.2</b>	<b>503.6</b>	<b>476.7</b>	<b>459.3</b>	<b>436.3</b>
Coastal / Long Distance	<b>920.6</b>	<b>703.1</b>	<b>584.3</b>	<b>518.9</b>	<b>486.9</b>	<b>459.9</b>	<b>418.5</b>
Non Spinnaker	<b>827.9</b>	<b>665.0</b>	<b>576.6</b>	<b>524.5</b>	<b>492.2</b>	<b>470.9</b>	<b>444.6</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>42.8°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>39.0°</b>	<b>37.9°</b>	<b>37.1°</b>	<b>36.4°</b>
Beat VMG	<b>3.89</b>	<b>4.70</b>	<b>5.28</b>	<b>5.60</b>	<b>5.76</b>	<b>5.86</b>	<b>5.97</b>
52°	<b>5.92</b>	<b>7.03</b>	<b>7.68</b>	<b>7.93</b>	<b>8.04</b>	<b>8.11</b>	<b>8.16</b>
60°	<b>6.26</b>	<b>7.33</b>	<b>7.87</b>	<b>8.12</b>	<b>8.24</b>	<b>8.31</b>	<b>8.38</b>
75°	<b>6.54</b>	<b>7.54</b>	<b>8.02</b>	<b>8.29</b>	<b>8.50</b>	<b>8.63</b>	<b>8.79</b>
90°	<b>6.48</b>	<b>7.51</b>	<b>8.03</b>	<b>8.35</b>	<b>8.61</b>	<b>8.87</b>	<b>9.27</b>
110°	<b>6.19</b>	<b>7.48</b>	<b>8.15</b>	<b>8.54</b>	<b>8.88</b>	<b>9.12</b>	<b>9.56</b>
120°	<b>6.05</b>	<b>7.34</b>	<b>8.07</b>	<b>8.50</b>	<b>8.94</b>	<b>9.39</b>	<b>10.01</b>
135°	<b>5.38</b>	<b>6.71</b>	<b>7.70</b>	<b>8.23</b>	<b>8.64</b>	<b>9.11</b>	<b>10.16</b>
150°	<b>4.53</b>	<b>5.70</b>	<b>6.77</b>	<b>7.62</b>	<b>8.05</b>	<b>8.37</b>	<b>9.03</b>
Run VMG	<b>3.93</b>	<b>4.93</b>	<b>5.87</b>	<b>6.60</b>	<b>6.99</b>	<b>7.44</b>	<b>8.29</b>
Gybe Angles	<b>143.5°</b>	<b>147.5°</b>	<b>147.0°</b>	<b>149.8°</b>	<b>151.3°</b>	<b>175.0°</b>	<b>178.0°</b>