



**ORC**

Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

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



**Certificate**

Number **US6722**  
Issued On **07/10/2020**  
ORC Ref **03410000RJS**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 506kg  
Maximum **590kg**  
Minimum\* **443kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>595.9</b>	<b>1.0069</b>
Non Spin OSN	<b>583.2</b>	<b>1.0289</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 106.27**  
Flying H/S: **No**  
Spin. Pole: **No**

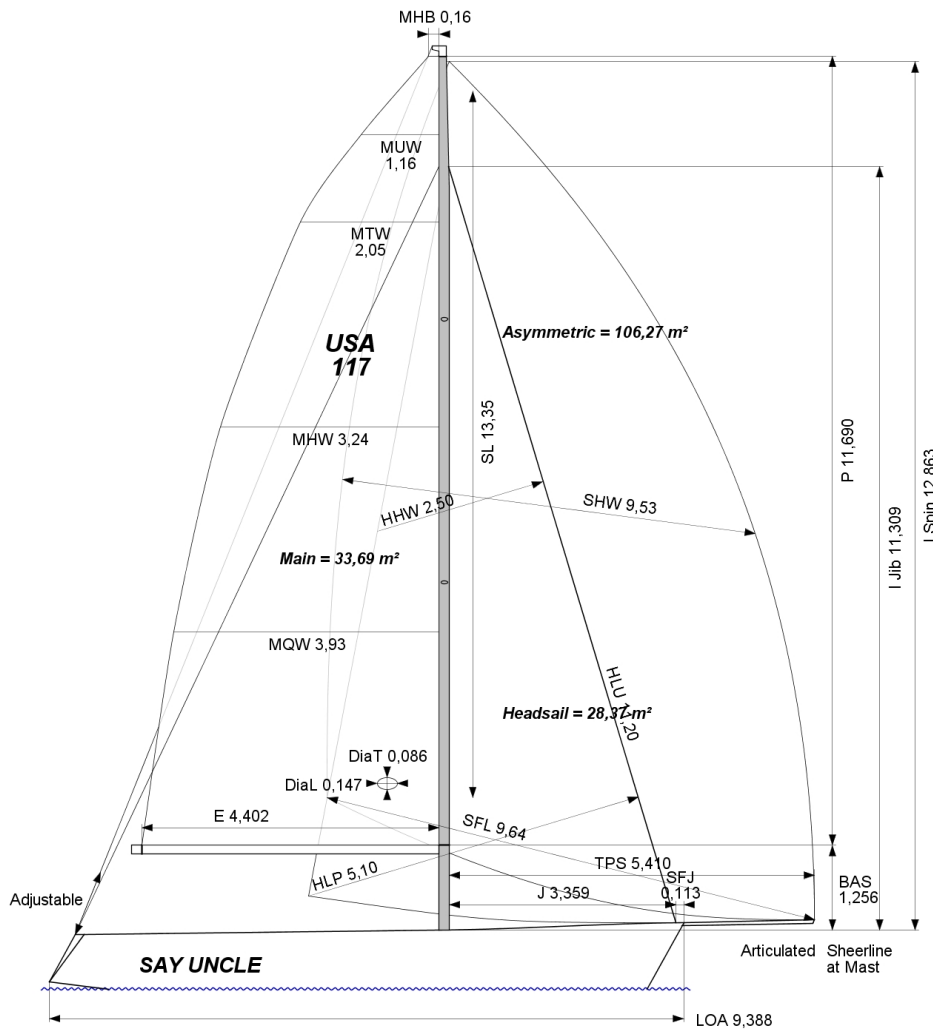
**Class Division Length**

**CDL = 9.124**

**Stability (Estimated)**

Limit Positive Stab.: **116.4°**  
Stability Index: **109.6**

**Owner**



BOAT	GPH	HULL
Name <b>SAY UNCLE</b> Sail Nr <b>USA 117</b>	<b>558.1</b>	Data File <b>US6723</b> LOA <b>9.388m</b> Offset File <b>HEN30.OFF</b> MB <b>2.993m</b> Displacement <b>1,779kg</b> Draft <b>2.121m</b>
<b>CLASS</b> Class <b>HENDERSON 30</b> Designer <b>HENDERSON</b> Builder <b>SOCA</b> Series <b>06/1996</b> Age Date <b>06/1996</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.000%</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>COMMENTS</b>		IMSL <b>8.594m</b> VCGD <b>-0.156m</b> Sink <b>11.64kg/mm</b> RL <b>9.672m</b> VCGM <b>-0.104m</b> WS <b>14.86m<sup>2</sup></b> LSM0 <b>8.063m</b> Displacement/Length ratio <b>3.3938</b>
<b>PROPELLER</b> Type <b>No Propeller</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>544.5</b>	<b>610.8</b>
Time on Time	<b>1.1019</b>	<b>1.1050</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>619.4 504.0 439.3</b>	<b>788.3 620.9 532.8</b>
Time on Time	<b>1.0898 1.3392 1.5366</b>	<b>0.8563 1.0872 1.2670</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>SAY UNCLE</b>	Certificate Number	<b>US6722</b>
Sail Nr	<b>USA 117</b>	Issued On	<b>07/10/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>876.4</b>	<b>739.3</b>	<b>697.2</b>	<b>679.0</b>	<b>672.8</b>	<b>662.6</b>	<b>662.5</b>
52°	<b>578.7</b>	<b>520.7</b>	<b>503.1</b>	<b>492.9</b>	<b>486.2</b>	<b>481.9</b>	<b>471.2</b>
60°	<b>553.6</b>	<b>507.3</b>	<b>485.2</b>	<b>472.4</b>	<b>464.4</b>	<b>460.3</b>	<b>445.4</b>
75°	<b>537.5</b>	<b>495.2</b>	<b>459.5</b>	<b>441.3</b>	<b>430.5</b>	<b>423.2</b>	<b>406.8</b>
90°	<b>538.9</b>	<b>494.9</b>	<b>454.1</b>	<b>419.6</b>	<b>400.2</b>	<b>387.7</b>	<b>374.6</b>
110°	<b>547.8</b>	<b>487.3</b>	<b>450.8</b>	<b>421.6</b>	<b>397.3</b>	<b>368.8</b>	<b>323.2</b>
120°	<b>556.8</b>	<b>489.5</b>	<b>438.8</b>	<b>406.5</b>	<b>381.9</b>	<b>354.2</b>	<b>313.2</b>
135°	<b>622.3</b>	<b>515.9</b>	<b>461.6</b>	<b>409.6</b>	<b>360.9</b>	<b>324.6</b>	<b>280.5</b>
150°	<b>740.6</b>	<b>590.8</b>	<b>514.3</b>	<b>462.1</b>	<b>417.9</b>	<b>369.7</b>	<b>276.3</b>
Run VMG	<b>855.2</b>	<b>682.2</b>	<b>593.6</b>	<b>533.5</b>	<b>482.6</b>	<b>426.9</b>	<b>319.0</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>865.8</b>	<b>710.8</b>	<b>645.4</b>	<b>606.2</b>	<b>577.7</b>	<b>544.8</b>	<b>490.8</b>
Circular Random	<b>749.4</b>	<b>615.1</b>	<b>543.9</b>	<b>501.0</b>	<b>471.5</b>	<b>448.4</b>	<b>411.7</b>
Coastal / Long Distance	<b>864.7</b>	<b>672.7</b>	<b>585.1</b>	<b>526.8</b>	<b>489.4</b>	<b>451.7</b>	<b>390.4</b>
Non Spinnaker	<b>811.6</b>	<b>660.6</b>	<b>579.5</b>	<b>531.1</b>	<b>499.1</b>	<b>475.7</b>	<b>441.0</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>42.0°</b>	<b>39.0°</b>	<b>36.8°</b>	<b>35.6°</b>	<b>35.3°</b>	<b>34.9°</b>	<b>35.6°</b>
Beat VMG	<b>4.11</b>	<b>4.87</b>	<b>5.16</b>	<b>5.30</b>	<b>5.35</b>	<b>5.43</b>	<b>5.43</b>
52°	<b>6.22</b>	<b>6.91</b>	<b>7.16</b>	<b>7.30</b>	<b>7.41</b>	<b>7.47</b>	<b>7.64</b>
60°	<b>6.50</b>	<b>7.10</b>	<b>7.42</b>	<b>7.62</b>	<b>7.75</b>	<b>7.82</b>	<b>8.08</b>
75°	<b>6.70</b>	<b>7.27</b>	<b>7.83</b>	<b>8.16</b>	<b>8.36</b>	<b>8.51</b>	<b>8.85</b>
90°	<b>6.68</b>	<b>7.27</b>	<b>7.93</b>	<b>8.58</b>	<b>9.00</b>	<b>9.29</b>	<b>9.61</b>
110°	<b>6.57</b>	<b>7.39</b>	<b>7.99</b>	<b>8.54</b>	<b>9.06</b>	<b>9.76</b>	<b>11.14</b>
120°	<b>6.47</b>	<b>7.35</b>	<b>8.20</b>	<b>8.86</b>	<b>9.43</b>	<b>10.16</b>	<b>11.49</b>
135°	<b>5.79</b>	<b>6.98</b>	<b>7.80</b>	<b>8.79</b>	<b>9.98</b>	<b>11.09</b>	<b>12.83</b>
150°	<b>4.86</b>	<b>6.09</b>	<b>7.00</b>	<b>7.79</b>	<b>8.61</b>	<b>9.74</b>	<b>13.03</b>
Run VMG	<b>4.21</b>	<b>5.28</b>	<b>6.06</b>	<b>6.75</b>	<b>7.46</b>	<b>8.43</b>	<b>11.28</b>
Gybe Angles	<b>143.0°</b>	<b>147.0°</b>	<b>155.0°</b>	<b>152.9°</b>	<b>150.0°</b>	<b>144.5°</b>	<b>146.1°</b>