



**ORC**

Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

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



**Certificate**

Number **044/20**  
Issued On **01/07/2020**  
ORC Ref **03850000LPL**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 344kg  
Maximum **450kg**  
Minimum\* **338kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>739.1</b>	<b>0.8118</b>
Non Spin OSN	<b>717.0</b>	<b>0.8369</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **32.51**  
Asymmetric: **Yes** **27.34**  
Flying H/S: **No**  
Spin. Pole: **Yes**

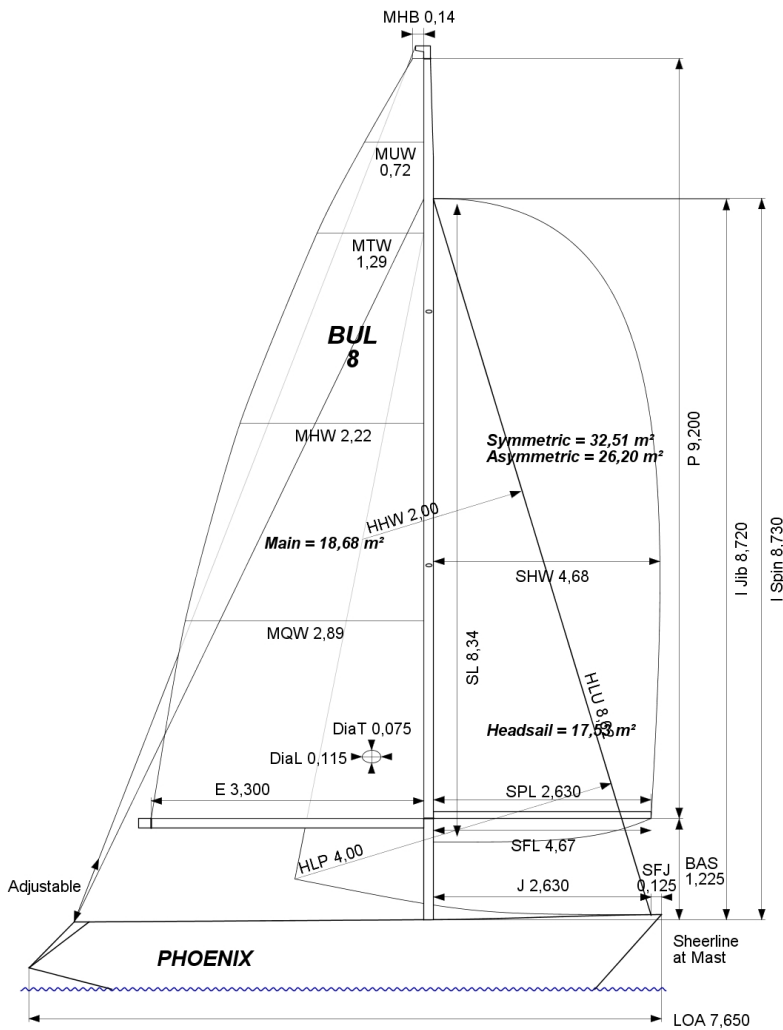
**Class Division Length**

**CDL = 6.400**

**Stability (Measured)**

Limit Positive Stab.: **120.1°**  
Stability Index: **112.3**

**Owner**



BOAT	GPH	HULL
Name <b>Phoenix</b> Sail Nr <b>BUL-8</b>	<b>717.4</b>	Data File <b>BUL2</b> LOA <b>7.650m</b> Offset File <b>C760.off</b> MB <b>2.756m</b> Displacement <b>1,476kg</b> Draft <b>1.511m</b>
<b>CLASS</b> Class <b>Conrad 25R</b> Designer <b>Doug Peterson</b> Builder <b>Conrad</b> Series <b>01/1976</b> Age Date <b>06/1984</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.009%</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>
<b>COMMENTS</b>		IMSL <b>6.152m</b> VCGD <b>-0.135m</b> Sink <b>7.97kg/mm</b> RL <b>6.653m</b> VCGM <b>-0.126m</b> WS <b>10.92m<sup>2</sup></b> LSM0 <b>6.145m</b> Displacement/Length ratio <b>6.3609</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>698.2</b>	<b>772.7</b>
Time on Time	<b>0.8594</b>	<b>0.8736</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>805.1 641.0 578.0</b>	<b>1028.5 773.5 689.9</b>
Time on Time	<b>0.8384 1.0530 1.1679</b>	<b>0.6563 0.8727 0.9784</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Phoenix</b>	Certificate Number <b>044/20</b>
Sail Nr <b>BUL-8</b>	Issued On <b>01/07/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1131.7</b>	<b>953.1</b>	<b>856.2</b>	<b>818.7</b>	<b>808.1</b>	<b>805.3</b>	<b>815.2</b>
52°	<b>753.1</b>	<b>651.6</b>	<b>616.6</b>	<b>597.8</b>	<b>588.6</b>	<b>584.1</b>	<b>584.2</b>
60°	<b>716.0</b>	<b>634.2</b>	<b>604.3</b>	<b>583.3</b>	<b>569.3</b>	<b>562.8</b>	<b>559.5</b>
75°	<b>693.7</b>	<b>625.1</b>	<b>592.8</b>	<b>566.5</b>	<b>547.0</b>	<b>533.5</b>	<b>523.8</b>
90°	<b>690.8</b>	<b>615.1</b>	<b>577.9</b>	<b>546.3</b>	<b>522.4</b>	<b>506.0</b>	<b>490.2</b>
110°	<b>722.1</b>	<b>626.5</b>	<b>584.2</b>	<b>547.3</b>	<b>516.8</b>	<b>491.2</b>	<b>451.5</b>
120°	<b>756.3</b>	<b>639.1</b>	<b>593.5</b>	<b>557.8</b>	<b>525.6</b>	<b>496.6</b>	<b>443.8</b>
135°	<b>839.1</b>	<b>688.9</b>	<b>619.5</b>	<b>582.8</b>	<b>548.8</b>	<b>518.8</b>	<b>462.3</b>
150°	<b>976.1</b>	<b>782.0</b>	<b>667.2</b>	<b>613.1</b>	<b>579.4</b>	<b>547.6</b>	<b>493.5</b>
Run VMG	<b>1127.1</b>	<b>901.9</b>	<b>763.1</b>	<b>670.2</b>	<b>616.9</b>	<b>583.5</b>	<b>525.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1129.4</b>	<b>927.5</b>	<b>809.7</b>	<b>744.4</b>	<b>712.5</b>	<b>694.4</b>	<b>670.3</b>
Circular Random	<b>970.4</b>	<b>791.7</b>	<b>697.3</b>	<b>643.0</b>	<b>609.8</b>	<b>588.0</b>	<b>559.9</b>
Coastal / Long Distance	<b>1129.2</b>	<b>875.5</b>	<b>739.4</b>	<b>663.9</b>	<b>622.9</b>	<b>589.3</b>	<b>532.3</b>
Non Spinnaker	<b>1007.9</b>	<b>818.5</b>	<b>717.8</b>	<b>659.8</b>	<b>624.2</b>	<b>600.9</b>	<b>571.4</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>40.9°</b>	<b>40.7°</b>	<b>38.3°</b>	<b>36.8°</b>	<b>36.4°</b>	<b>36.4°</b>	<b>37.3°</b>
Beat VMG	<b>3.18</b>	<b>3.78</b>	<b>4.20</b>	<b>4.40</b>	<b>4.46</b>	<b>4.47</b>	<b>4.42</b>
52°	<b>4.78</b>	<b>5.52</b>	<b>5.84</b>	<b>6.02</b>	<b>6.12</b>	<b>6.16</b>	<b>6.16</b>
60°	<b>5.03</b>	<b>5.68</b>	<b>5.96</b>	<b>6.17</b>	<b>6.32</b>	<b>6.40</b>	<b>6.43</b>
75°	<b>5.19</b>	<b>5.76</b>	<b>6.07</b>	<b>6.36</b>	<b>6.58</b>	<b>6.75</b>	<b>6.87</b>
90°	<b>5.21</b>	<b>5.85</b>	<b>6.23</b>	<b>6.59</b>	<b>6.89</b>	<b>7.11</b>	<b>7.34</b>
110°	<b>4.99</b>	<b>5.75</b>	<b>6.16</b>	<b>6.58</b>	<b>6.97</b>	<b>7.33</b>	<b>7.97</b>
120°	<b>4.76</b>	<b>5.63</b>	<b>6.07</b>	<b>6.45</b>	<b>6.85</b>	<b>7.25</b>	<b>8.11</b>
135°	<b>4.29</b>	<b>5.23</b>	<b>5.81</b>	<b>6.18</b>	<b>6.56</b>	<b>6.94</b>	<b>7.79</b>
150°	<b>3.69</b>	<b>4.60</b>	<b>5.40</b>	<b>5.87</b>	<b>6.21</b>	<b>6.57</b>	<b>7.30</b>
Run VMG	<b>3.19</b>	<b>3.99</b>	<b>4.72</b>	<b>5.37</b>	<b>5.84</b>	<b>6.17</b>	<b>6.85</b>
Gybe Angles	<b>149.0°</b>	<b>153.0°</b>	<b>156.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>