



World Leader in Rating Technology

## 2010 ORC Club Certificate

### Rating Office

Hellenic Sailing Federation  
Offshore Committee  
Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



### Certificate

Number **000615**  
Issued On **18/05/2010**  
ORC Ref **GRE00014842**  
VPP Ver. **2010 1.11**  
Valid until **01/03/2011**

### Crew Weight

Declared **500 kg**  
Default\* **460 kg**  
Non Manual Power **No**

### Special Scoring

	ToD	ToT
Double Handed	<b>877,9</b>	<b>0,6835</b>
Non Spinnaker	<b>876,9</b>	<b>0,6842</b>
N/S Perf. Line	<b>18,7</b>	<b>0,506</b>

### Sails Limitations

Genoas **1** Spinnakers **0**  
Jibs **0** Dacron Sails

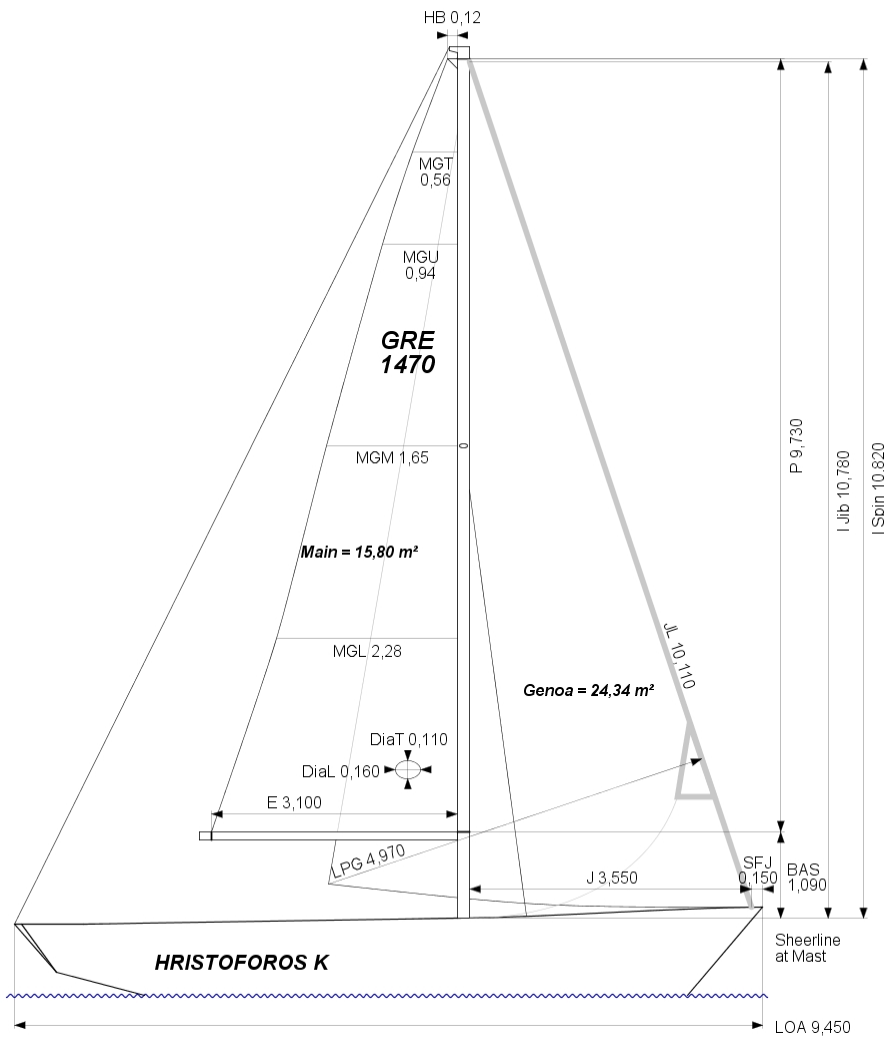
### Spinnaker configuration

Symmetric: **No**  
Asymmetric: **No**  
Code Zero: **No**  
Spin. Pole: **No**

### Stability

LPS (Estimated): **120,1°**  
Stability Index: **125,4**  
OSR Category: **0**

### Owner



BOAT	GPH	HULL
Name <b>HRISTOFOROS K</b> Sail Nr <b>GRE-1470</b>	<b>876,9</b>	Data File <b>GR1470.dxt</b> LOA <b>9,450 m</b> Offset File <b>wibo945.off</b> MB <b>2,968 m</b> Displacement <b>5.300 kg</b> Draft <b>1,375 m</b>
<b>CLASS</b> Class <b>WIBO 945</b> Designer <b>VAN DE STADT</b> Builder <b>WIBO</b> Series <b>11/1981</b> Age Date <b>11/1981</b> Age Allowance <b>0,975%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>1,500%</b> Fwd Accom. <b>Yes</b> Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Carbon Mast <b>No</b> Carbon Rudder <b>No</b> Anchor Wgt Anchor LCG
<b>COMMENTS</b> Officially weighted by measurer		IMS L <b>7,606</b> Wetted Area <b>19,35 m²</b> VCGM <b>0,007</b>
<b>PROPELLER</b> Installation <b>Shaft</b> PRD <b>0,380</b> Type <b>Solid 3 blades</b>		<b>CENTERBOARD</b> N/A

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	Time On Distance	<b>876,9</b>			<b>990,0</b>	
Time On Time	<b>0,6842</b>			<b>0,6819</b>		
Performance Line	PLT <b>0,506</b>	PLD <b>18,7</b>		PLT <b>0,496</b>	PLD <b>86,4</b>	
Triple Number	Low <b>0,6205</b>	Medium <b>0,8933</b>	High <b>1,0543</b>	Low <b>0,4745</b>	Medium <b>0,7146</b>	High <b>0,8860</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>HRISTOFOROS K</b>	Certificate Number	<b>000615</b>
Sail Nr	<b>GRE-1470</b>	Issued On	<b>18/05/2010</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1685,3</b>	<b>1315,0</b>	<b>1117,9</b>	<b>989,8</b>	<b>929,3</b>	<b>897,1</b>	<b>869,8</b>
52°	<b>1044,6</b>	<b>829,1</b>	<b>700,1</b>	<b>651,5</b>	<b>625,3</b>	<b>607,4</b>	<b>591,7</b>
60°	<b>940,2</b>	<b>752,8</b>	<b>659,3</b>	<b>623,5</b>	<b>600,9</b>	<b>584,3</b>	<b>566,3</b>
75°	<b>866,0</b>	<b>688,3</b>	<b>630,8</b>	<b>600,8</b>	<b>579,9</b>	<b>564,5</b>	<b>540,5</b>
90°	<b>881,6</b>	<b>699,1</b>	<b>635,2</b>	<b>603,2</b>	<b>579,1</b>	<b>561,0</b>	<b>532,1</b>
110°	<b>985,7</b>	<b>773,9</b>	<b>655,2</b>	<b>613,8</b>	<b>586,4</b>	<b>565,9</b>	<b>532,5</b>
120°	<b>1059,2</b>	<b>819,1</b>	<b>677,3</b>	<b>626,6</b>	<b>596,2</b>	<b>574,0</b>	<b>539,8</b>
135°	<b>1217,0</b>	<b>921,5</b>	<b>764,0</b>	<b>661,1</b>	<b>620,6</b>	<b>593,2</b>	<b>555,2</b>
150°	<b>1393,7</b>	<b>1058,3</b>	<b>858,3</b>	<b>730,9</b>	<b>653,1</b>	<b>616,9</b>	<b>571,5</b>
Run VMG	<b>1527,9</b>	<b>1162,5</b>	<b>932,9</b>	<b>794,3</b>	<b>688,2</b>	<b>636,5</b>	<b>581,4</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1627,7</b>	<b>1254,5</b>	<b>1038,8</b>	<b>904,2</b>	<b>821,6</b>	<b>776,8</b>	<b>729,9</b>
Circular Random	<b>1283,2</b>	<b>1001,9</b>	<b>845,3</b>	<b>751,9</b>	<b>694,2</b>	<b>657,6</b>	<b>615,4</b>
Ocean for PCS	<b>1365,0</b>	<b>1044,1</b>	<b>861,8</b>	<b>750,0</b>	<b>678,1</b>	<b>629,4</b>	<b>566,1</b>
Non Spinnaker	<b>1283,2</b>	<b>1001,9</b>	<b>845,3</b>	<b>751,9</b>	<b>694,2</b>	<b>657,6</b>	<b>615,4</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>47,9°</b>	<b>46,3°</b>	<b>48,5°</b>	<b>44,6°</b>	<b>42,5°</b>	<b>41,5°</b>	<b>40,7°</b>
Beat VMG	<b>2,14</b>	<b>2,74</b>	<b>3,22</b>	<b>3,64</b>	<b>3,87</b>	<b>4,01</b>	<b>4,14</b>
52°	<b>3,45</b>	<b>4,34</b>	<b>5,14</b>	<b>5,53</b>	<b>5,76</b>	<b>5,93</b>	<b>6,08</b>
60°	<b>3,83</b>	<b>4,78</b>	<b>5,46</b>	<b>5,77</b>	<b>5,99</b>	<b>6,16</b>	<b>6,36</b>
75°	<b>4,16</b>	<b>5,23</b>	<b>5,71</b>	<b>5,99</b>	<b>6,21</b>	<b>6,38</b>	<b>6,66</b>
90°	<b>4,08</b>	<b>5,15</b>	<b>5,67</b>	<b>5,97</b>	<b>6,22</b>	<b>6,42</b>	<b>6,77</b>
110°	<b>3,65</b>	<b>4,65</b>	<b>5,49</b>	<b>5,86</b>	<b>6,14</b>	<b>6,36</b>	<b>6,76</b>
120°	<b>3,40</b>	<b>4,39</b>	<b>5,32</b>	<b>5,75</b>	<b>6,04</b>	<b>6,27</b>	<b>6,67</b>
135°	<b>2,96</b>	<b>3,91</b>	<b>4,71</b>	<b>5,45</b>	<b>5,80</b>	<b>6,07</b>	<b>6,48</b>
150°	<b>2,58</b>	<b>3,40</b>	<b>4,19</b>	<b>4,93</b>	<b>5,51</b>	<b>5,84</b>	<b>6,30</b>
Run VMG	<b>2,36</b>	<b>3,10</b>	<b>3,86</b>	<b>4,53</b>	<b>5,23</b>	<b>5,66</b>	<b>6,19</b>
Gybe Angles	<b>179,1°</b>	<b>179,1°</b>	<b>179,1°</b>	<b>179,2°</b>	<b>179,4°</b>	<b>179,7°</b>	<b>179,9°</b>