



World Leader in Rating Technology

## 2010 ORC Club Certificate

### Rating Office

Estonian Yachting Union  
Regati 1, 11911  
Tallinn  
Estonia

### Certificate

Number **EST015**  
Issued On **14.06.2010**  
ORC Ref **EST00001174**  
VPP Ver. **2010 1.11**  
Valid until **31.12.2010**

### Crew Weight

Declared **410 kg**  
Default\* **350 kg**  
Non Manual Power **No**

### Special Scoring

	ToD	ToT
Double	<b>744,1</b>	<b>0,8063</b>
Non Spinnaker	<b>776,3</b>	<b>0,7729</b>
N/S Perf. Line	<b>88,4</b>	<b>0,661</b>

### Sails Limitations

Genoas **2** Spinnakers **3**  
Jibs **2** Dacron Sails

### Spinnaker configuration

Symmetric: **Yes 30,64**  
Asymmetric: **No**  
Code Zero: **No**  
Spin. Pole: **Yes**

### Stability

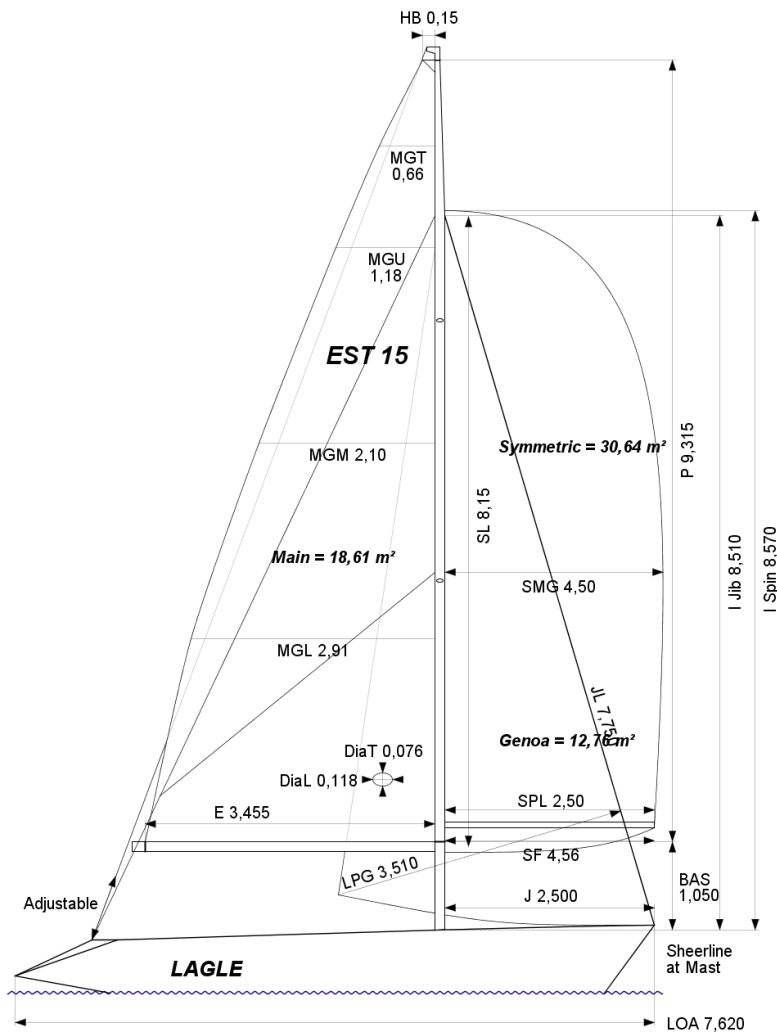
LPS (Estimated): **112,2°**  
Stability Index: **104,9**  
OSR Category: **N/A**

### Owner

Ülari Velviste  
Õismäe tee 14-45  
Tallinn, Estonia

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

Signature



BOAT	GPH	HULL
Name <b>LAGLE</b> Sail Nr <b>EST 15</b>	<b>742,4</b>	Data File <b>Est0015.dxt</b> LOA <b>7,620 m</b> Offset File <b>POLARI90.OFF</b> MB <b>2,692 m</b> Displacement <b>1 790 kg</b> Draft <b>1,619 m</b>
CLASS		IMS Division <b>Performance</b> Dynamic All. <b>0,541%</b> Fwd Accom. <b>Yes</b> Construction <b>Solid</b> Fiber <b>No</b> Aramid Core <b>No</b> Carbon Mast <b>No</b> Carbon Rudder <b>No</b> Anchor Wgt Anchor LCG
Class <b>Polaris</b> Designer <b>SET</b> Builder <b>SET</b> Series <b>01.1984</b> Age Date <b>12.1987</b> Age Allowance <b>0,975%</b>		IMS L <b>6,235</b> Wetted Area <b>11,30 m²</b> VCGM <b>-0,020</b>
COMMENTS		
PROPELLER	CENTERBOARD	
Type <b>No Propeller</b>	<b>N/A</b>	
SCORING OPTIONS		
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	<b>742,4</b>	<b>816,9</b>
Time On Time	<b>0,8081</b>	<b>0,8263</b>
Performance Line	PLT <b>0,723</b> PLD <b>113,6</b>	PLT <b>0,873</b> PLD <b>311,3</b>
Triple Number	Low <b>0,7957</b> Medium <b>1,0234</b> High <b>1,1606</b>	Low <b>0,6112</b> Medium <b>0,8416</b> High <b>0,9762</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>LAGLE</b>
Sail Nr	<b>EST 15</b>
Certificate Number	<b>EST015</b>
Issued On	<b>14.06.2010</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1258,4</b>	<b>1016,4</b>	<b>911,4</b>	<b>852,5</b>	<b>816,4</b>	<b>796,2</b>	<b>776,1</b>
52°	<b>815,4</b>	<b>689,9</b>	<b>640,0</b>	<b>607,9</b>	<b>582,2</b>	<b>569,7</b>	<b>557,9</b>
60°	<b>752,7</b>	<b>665,5</b>	<b>621,9</b>	<b>591,5</b>	<b>565,5</b>	<b>548,5</b>	<b>536,8</b>
75°	<b>718,5</b>	<b>635,7</b>	<b>591,4</b>	<b>558,1</b>	<b>539,9</b>	<b>531,7</b>	<b>505,8</b>
90°	<b>692,8</b>	<b>622,6</b>	<b>581,9</b>	<b>550,1</b>	<b>523,0</b>	<b>505,8</b>	<b>498,4</b>
110°	<b>715,7</b>	<b>639,2</b>	<b>595,6</b>	<b>561,9</b>	<b>533,9</b>	<b>508,4</b>	<b>456,9</b>
120°	<b>757,6</b>	<b>658,3</b>	<b>609,3</b>	<b>573,8</b>	<b>544,5</b>	<b>519,3</b>	<b>468,1</b>
135°	<b>882,4</b>	<b>707,6</b>	<b>640,9</b>	<b>599,7</b>	<b>567,4</b>	<b>540,3</b>	<b>493,4</b>
150°	<b>1041,6</b>	<b>814,4</b>	<b>691,2</b>	<b>634,0</b>	<b>596,1</b>	<b>565,6</b>	<b>516,8</b>
Run VMG	<b>1202,7</b>	<b>940,4</b>	<b>778,0</b>	<b>690,7</b>	<b>637,3</b>	<b>600,5</b>	<b>545,7</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1252,0</b>	<b>995,1</b>	<b>858,6</b>	<b>781,9</b>	<b>735,7</b>	<b>705,9</b>	<b>666,4</b>
Circular Random	<b>1020,6</b>	<b>825,6</b>	<b>720,9</b>	<b>659,3</b>	<b>620,3</b>	<b>593,7</b>	<b>557,6</b>
Ocean for PCS	<b>1089,5</b>	<b>862,2</b>	<b>736,0</b>	<b>658,8</b>	<b>607,9</b>	<b>571,8</b>	<b>522,5</b>
Non Spinnaker	<b>1082,9</b>	<b>868,5</b>	<b>752,5</b>	<b>684,1</b>	<b>640,9</b>	<b>611,5</b>	<b>572,5</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>42,9°</b>	<b>42,1°</b>	<b>38,3°</b>	<b>37,3°</b>	<b>36,6°</b>	<b>35,8°</b>	<b>35,3°</b>
Beat VMG	<b>2,86</b>	<b>3,54</b>	<b>3,95</b>	<b>4,22</b>	<b>4,41</b>	<b>4,52</b>	<b>4,64</b>
52°	<b>4,42</b>	<b>5,22</b>	<b>5,63</b>	<b>5,92</b>	<b>6,18</b>	<b>6,32</b>	<b>6,45</b>
60°	<b>4,78</b>	<b>5,41</b>	<b>5,79</b>	<b>6,09</b>	<b>6,37</b>	<b>6,56</b>	<b>6,71</b>
75°	<b>5,01</b>	<b>5,66</b>	<b>6,09</b>	<b>6,45</b>	<b>6,67</b>	<b>6,77</b>	<b>7,12</b>
90°	<b>5,20</b>	<b>5,78</b>	<b>6,19</b>	<b>6,54</b>	<b>6,88</b>	<b>7,12</b>	<b>7,22</b>
110°	<b>5,03</b>	<b>5,63</b>	<b>6,04</b>	<b>6,41</b>	<b>6,74</b>	<b>7,08</b>	<b>7,88</b>
120°	<b>4,75</b>	<b>5,47</b>	<b>5,91</b>	<b>6,27</b>	<b>6,61</b>	<b>6,93</b>	<b>7,69</b>
135°	<b>4,08</b>	<b>5,09</b>	<b>5,62</b>	<b>6,00</b>	<b>6,34</b>	<b>6,66</b>	<b>7,30</b>
150°	<b>3,46</b>	<b>4,42</b>	<b>5,21</b>	<b>5,68</b>	<b>6,04</b>	<b>6,37</b>	<b>6,97</b>
Run VMG	<b>2,99</b>	<b>3,83</b>	<b>4,63</b>	<b>5,21</b>	<b>5,65</b>	<b>6,00</b>	<b>6,60</b>
Gybe Angles	<b>145,9°</b>	<b>145,7°</b>	<b>161,9°</b>	<b>172,7°</b>	<b>175,6°</b>	<b>176,3°</b>	<b>176,6°</b>