



World Leader in Rating Technology

## 2009 ORC Club Certificate

### Rating Office

**NORC**  
Per Boymo  
+4792226418  
boeymo@online.no



### Certificate

Number **10388**  
Issued On **18.03.2009**  
ORC Ref **NOR00000042**  
VPP Ver. 1.11  
Valid until **31.12.2008**

### Comments

### Crew Weight

Declared **638 kg**  
Default\* **638 kg**

Double Handed ToD **604,0**  
Double Handed ToT **0,9934**

### Sails Limitations

Genoas **4** Spinnakers **4**  
Jibs **3**

### Spinnaker configuration

Symmetric: **No**  
Asymmetric: **Yes 108,76**  
Code Zero: **No**  
Spin. Pole: **No**

### Stability

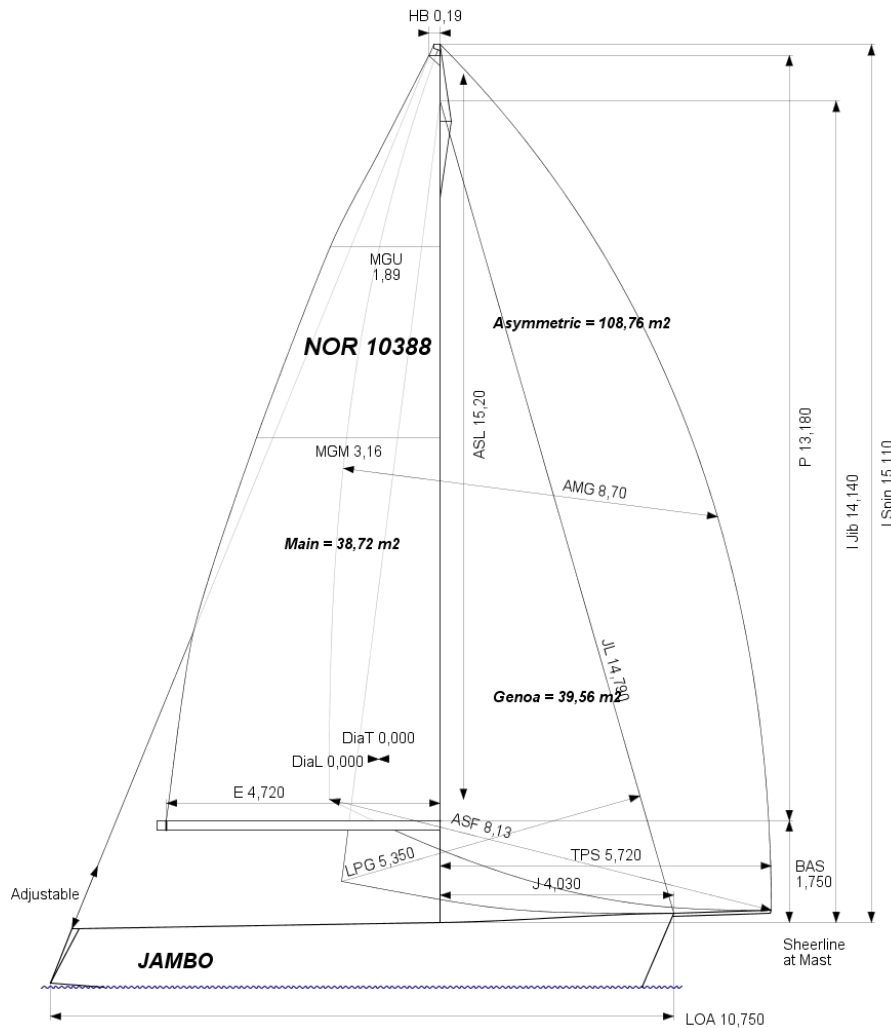
LPS (Estimated): **116,2°**  
Stability Index: **115,4**  
OSR Category: **1**

### Owner

Torgeir Sten Askvig  
Asengveien 27  
1341 Slependen

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>	
Name <b>JAMBO</b> Sail Nr <b>NOR 10388</b>		<b>599,6</b>		Data File <b>NOR10388.dxt</b>	LOA <b>10,750 m</b>
				Offset File <b>F199.OFF</b>	MB <b>3,517 m</b>
				Displacement <b>4 950 kg</b>	Draft <b>2,126 m</b>
<b>CLASS</b>		<b>IMS Regulations Division</b>			
Class <b>J/109</b>		Dynamic Allowance <b>0,000%</b>			
Designer <b>Alan Johstone</b>		Forward Accommodation <b>Yes</b>			
Builder <b>J Composite France</b>		Hull Construction <b>Cored</b>			
Series <b>01.2006</b>		Carbon Mast <b>No</b>			
Age Date <b>01.2006</b>		Carbon Rudder			
Age Allowance <b>0,195%</b>		IMS L <b>9,713</b> Wetted Area <b>24,47 m²</b> VCGM <b>0,017</b>			
<b>HEAVY ITEMS</b>		<b>PROPELLER</b>			
N/A		Installation <b>Strut Drive</b> PRD <b>0,410</b>			
		Type <b>Folding</b> PBW <b>0,112</b>			
Total Gyradius Adjustment <b>0,0149</b>					

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	Time On Distance	<b>599,6</b>			<b>665,4</b>	
Time On Time	<b>1,0007</b>			<b>1,0144</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,914</b>	<b>125,0</b>		<b>1,116</b>	<b>337,8</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9953</b>	<b>1,2630</b>	<b>1,4202</b>	<b>0,7591</b>	<b>1,0145</b>	<b>1,1833</b>



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# 2009

## ORC Club Certificate Appendix

### BOAT

Name **JAMBO** Certificate Number **10388**  
 Sail Nr **NOR 10388** Issued On **18.03.2009**

### TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1004,1</b>	<b>823,1</b>	<b>741,2</b>	<b>699,0</b>	<b>673,1</b>	<b>656,8</b>	<b>641,6</b>
52°	<b>648,9</b>	<b>549,7</b>	<b>506,4</b>	<b>488,8</b>	<b>478,3</b>	<b>471,8</b>	<b>465,4</b>
60°	<b>608,6</b>	<b>527,4</b>	<b>488,9</b>	<b>472,8</b>	<b>463,6</b>	<b>457,3</b>	<b>450,7</b>
75°	<b>581,3</b>	<b>508,2</b>	<b>477,6</b>	<b>455,3</b>	<b>443,0</b>	<b>435,6</b>	<b>426,7</b>
90°	<b>557,2</b>	<b>487,5</b>	<b>461,5</b>	<b>449,3</b>	<b>438,8</b>	<b>421,6</b>	<b>407,0</b>
110°	<b>565,1</b>	<b>496,8</b>	<b>461,6</b>	<b>434,5</b>	<b>419,0</b>	<b>408,4</b>	<b>389,3</b>
120°	<b>594,1</b>	<b>513,9</b>	<b>473,8</b>	<b>445,0</b>	<b>418,5</b>	<b>396,6</b>	<b>372,7</b>
135°	<b>690,1</b>	<b>563,2</b>	<b>504,4</b>	<b>471,4</b>	<b>446,6</b>	<b>423,3</b>	<b>374,9</b>
150°	<b>834,2</b>	<b>663,7</b>	<b>572,6</b>	<b>515,7</b>	<b>481,1</b>	<b>456,5</b>	<b>413,3</b>
Run VMG	<b>963,2</b>	<b>766,4</b>	<b>661,1</b>	<b>588,9</b>	<b>533,1</b>	<b>494,3</b>	<b>445,8</b>

### Selected Courses

Windward / Leeward	<b>1003,0</b>	<b>810,1</b>	<b>711,0</b>	<b>651,4</b>	<b>610,2</b>	<b>582,0</b>	<b>549,0</b>
Circular Random	<b>818,4</b>	<b>664,3</b>	<b>582,4</b>	<b>534,8</b>	<b>504,9</b>	<b>484,6</b>	<b>457,5</b>
Ocean for PCS	<b>875,0</b>	<b>695,2</b>	<b>595,8</b>	<b>535,1</b>	<b>494,6</b>	<b>465,3</b>	<b>422,8</b>
Non Spinnaker	<b>906,6</b>	<b>724,6</b>	<b>625,3</b>	<b>566,4</b>	<b>529,4</b>	<b>504,8</b>	<b>474,1</b>

### Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>44,2°</b>	<b>42,6°</b>	<b>39,9°</b>	<b>38,4°</b>	<b>37,3°</b>	<b>36,6°</b>	<b>35,8°</b>
Beat VMG	<b>3,59</b>	<b>4,37</b>	<b>4,86</b>	<b>5,15</b>	<b>5,35</b>	<b>5,48</b>	<b>5,61</b>
52°	<b>5,55</b>	<b>6,55</b>	<b>7,11</b>	<b>7,37</b>	<b>7,53</b>	<b>7,63</b>	<b>7,74</b>
60°	<b>5,92</b>	<b>6,83</b>	<b>7,36</b>	<b>7,61</b>	<b>7,77</b>	<b>7,87</b>	<b>7,99</b>
75°	<b>6,19</b>	<b>7,08</b>	<b>7,54</b>	<b>7,91</b>	<b>8,13</b>	<b>8,26</b>	<b>8,44</b>
90°	<b>6,46</b>	<b>7,38</b>	<b>7,80</b>	<b>8,01</b>	<b>8,20</b>	<b>8,54</b>	<b>8,85</b>
110°	<b>6,37</b>	<b>7,25</b>	<b>7,80</b>	<b>8,29</b>	<b>8,59</b>	<b>8,81</b>	<b>9,25</b>
120°	<b>6,06</b>	<b>7,01</b>	<b>7,60</b>	<b>8,09</b>	<b>8,60</b>	<b>9,08</b>	<b>9,66</b>
135°	<b>5,22</b>	<b>6,39</b>	<b>7,14</b>	<b>7,64</b>	<b>8,06</b>	<b>8,50</b>	<b>9,60</b>
150°	<b>4,32</b>	<b>5,42</b>	<b>6,29</b>	<b>6,98</b>	<b>7,48</b>	<b>7,89</b>	<b>8,71</b>
Run VMG	<b>3,74</b>	<b>4,70</b>	<b>5,45</b>	<b>6,11</b>	<b>6,75</b>	<b>7,28</b>	<b>8,08</b>
Gybe Angles	<b>140,2°</b>	<b>142,9°</b>	<b>150,0°</b>	<b>160,9°</b>	<b>171,4°</b>	<b>177,2°</b>	<b>178,1°</b>