

<b>BOAT</b>
Name <b>JAMBO</b>
Sail Nr <b>NOR 10388</b>

<b>GPH</b>
<b>617,8</b>

<b>HULL</b>	
Length Overall	<b>10,757 m</b>
Maximum Beam	<b>3,517 m</b>
Displacement	<b>4 824 kg</b>
Draft	<b>2,120 m</b>
IMS Reg. Division	<b>Cruiser/Racer</b>
Accommodation length	<b>10,757 m</b>
Dynamic Allowance	<b>0,156%</b>
Fwd Accommodation	<b>Yes</b>
Hull Construction	<b>Cored</b>
Carbon Rudder	<b>No</b>
Trim Tab	<b>No</b>
IMS L	<b>9,695</b>
VCGD	<b>-0,021</b>
VCGM	<b>-0,037</b>



**2008**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>J-109</b>
Designer <b>JOHNSTONE RODNEY</b>
Builder <b>J-COMPOSITE</b>
Series <b>01.2001</b>
Age <b>01.2002</b>
Age Allowance <b>0,455%</b>
Offset File <b>F199.OFF - 15.08.08 18:12:24</b>
Measurement by <b>KALL - 26.05.2003</b>

<b>SCORING OPTIONS</b>	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>617,8</b>			<b>691,1</b>		
Time On Time	<b>0,9712</b>			<b>0,9767</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,773</b>	<b>72,7</b>		<b>1,078</b>	<b>340,0</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9601</b>	<b>1,2297</b>	<b>1,3803</b>	<b>0,7282</b>	<b>0,9806</b>	<b>1,1417</b>

**Rating Office**  
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<b>TIME ALLOWANCES</b>	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat VMG	<b>1040,7</b>	<b>852,1</b>	<b>768,5</b>	<b>727,7</b>	<b>703,4</b>	<b>689,0</b>	<b>679,7</b>
52°	<b>668,7</b>	<b>562,0</b>	<b>517,9</b>	<b>500,2</b>	<b>490,0</b>	<b>484,0</b>	<b>479,3</b>
60°	<b>624,2</b>	<b>536,6</b>	<b>496,8</b>	<b>481,7</b>	<b>472,9</b>	<b>467,3</b>	<b>462,1</b>
75°	<b>591,8</b>	<b>518,6</b>	<b>481,9</b>	<b>460,4</b>	<b>450,4</b>	<b>443,9</b>	<b>436,2</b>
90°	<b>573,6</b>	<b>497,6</b>	<b>466,2</b>	<b>454,0</b>	<b>441,4</b>	<b>426,8</b>	<b>415,7</b>
110°	<b>585,9</b>	<b>509,7</b>	<b>471,4</b>	<b>443,2</b>	<b>423,4</b>	<b>413,0</b>	<b>395,2</b>
120°	<b>622,3</b>	<b>529,7</b>	<b>484,7</b>	<b>454,8</b>	<b>428,6</b>	<b>405,5</b>	<b>378,2</b>
135°	<b>725,6</b>	<b>584,8</b>	<b>518,8</b>	<b>482,0</b>	<b>456,1</b>	<b>433,1</b>	<b>387,4</b>
150°	<b>877,0</b>	<b>694,6</b>	<b>591,3</b>	<b>528,9</b>	<b>490,7</b>	<b>464,5</b>	<b>421,5</b>
Run VMG	<b>1012,7</b>	<b>802,1</b>	<b>682,8</b>	<b>602,8</b>	<b>543,2</b>	<b>501,9</b>	<b>451,6</b>

<b>Certificate</b>
Number <b>10388</b>
ORC Ref <b>N/A</b>
Issued On <b>15.08.08</b>
VPP Ver. <b>1.15</b>
Valid until

<b>Selected Courses</b>							
Windward / Leeward	<b>1046,4</b>	<b>842,5</b>	<b>736,2</b>	<b>673,1</b>	<b>630,8</b>	<b>602,3</b>	<b>571,4</b>
Circular Random	<b>847,1</b>	<b>685,7</b>	<b>599,7</b>	<b>549,9</b>	<b>519,0</b>	<b>498,5</b>	<b>472,7</b>
Ocean for PCS	<b>960,3</b>	<b>754,2</b>	<b>637,8</b>	<b>565,3</b>	<b>516,8</b>	<b>482,4</b>	<b>435,3</b>
Non Spinnaker	<b>928,7</b>	<b>741,7</b>	<b>639,9</b>	<b>579,7</b>	<b>542,2</b>	<b>517,6</b>	<b>487,7</b>

<b>Crew Weight</b>	
Declared	<b>510 kg</b>
Default*	<b>643 kg</b>
Double Handed ToD	<b>618,7</b>
Double Handed ToT	<b>0,9697</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat Angles	<b>44,7°</b>	<b>43,5°</b>	<b>40,9°</b>	<b>39,4°</b>	<b>38,7°</b>	<b>38,2°</b>	<b>38,0°</b>
Beat VMG	<b>3,46</b>	<b>4,23</b>	<b>4,68</b>	<b>4,95</b>	<b>5,12</b>	<b>5,23</b>	<b>5,30</b>
52°	<b>5,38</b>	<b>6,41</b>	<b>6,95</b>	<b>7,20</b>	<b>7,35</b>	<b>7,44</b>	<b>7,51</b>
60°	<b>5,77</b>	<b>6,71</b>	<b>7,25</b>	<b>7,47</b>	<b>7,61</b>	<b>7,70</b>	<b>7,79</b>
75°	<b>6,08</b>	<b>6,94</b>	<b>7,47</b>	<b>7,82</b>	<b>7,99</b>	<b>8,11</b>	<b>8,25</b>
90°	<b>6,28</b>	<b>7,23</b>	<b>7,72</b>	<b>7,93</b>	<b>8,16</b>	<b>8,44</b>	<b>8,66</b>
110°	<b>6,14</b>	<b>7,06</b>	<b>7,64</b>	<b>8,12</b>	<b>8,50</b>	<b>8,72</b>	<b>9,11</b>
120°	<b>5,78</b>	<b>6,80</b>	<b>7,43</b>	<b>7,91</b>	<b>8,40</b>	<b>8,88</b>	<b>9,52</b>
135°	<b>4,96</b>	<b>6,16</b>	<b>6,94</b>	<b>7,47</b>	<b>7,89</b>	<b>8,31</b>	<b>9,29</b>
150°	<b>4,10</b>	<b>5,18</b>	<b>6,09</b>	<b>6,81</b>	<b>7,34</b>	<b>7,75</b>	<b>8,54</b>
Run VMG	<b>3,55</b>	<b>4,49</b>	<b>5,27</b>	<b>5,97</b>	<b>6,63</b>	<b>7,17</b>	<b>7,97</b>
Gybe Angles	<b>140,3°</b>	<b>142,6°</b>	<b>149,9°</b>	<b>163,0°</b>	<b>172,8°</b>	<b>178,1°</b>	<b>178,8°</b>

<b>Sails Limitations</b>	
Genoas	<b>3</b>
Jibs	<b>2</b>
Spinnakers	<b>3</b>
Spinnaker configuration	<b>Asym. on Center Line</b>

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>27,11</b>
Storm Jib	<b>10,04</b>
Storm Jib JL	<b>9,21</b>
Storm Trysail	<b>10,89</b>

<b>Owner</b>
<b>Torgeir Sten Askvig</b>
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature



World Leader in Rating Technology

## 2008 IMS Measurement Certificate

BOAT			
Name	<b>JAMBO</b>	Class	<b>J-109</b>
Sail Nr	<b>NOR 10388</b>	GPH	<b>617,8</b>
File	<b>NOR10388.dat</b>	Data in	<b>meters/kilograms</b>

RIG					
Forestay Tension	<b>Aft</b>	Spreaders	<b>2</b>		
Inner Forestay	<b>None Fitted</b>	Runners	<b>0</b>		
Carbon Mast	<b>No</b>	Jumpers	<b>None</b>		
Taper Hollows	<b>No</b>				
P	<b>13,180</b>	BAS	<b>1,654</b>	TL	<b>1,290</b> BD <b>0,160</b>
IG	<b>14,170</b>	FSP	<b>0,058</b>	J	<b>4,050</b> BWT <b>0,00</b>
ISP	<b>14,950</b>	MDT1	<b>0,104</b>	SPL	<b>4,050</b> SFJ <b>0,000</b>
SPS	<b>0,000</b>	MDL1	<b>0,188</b>	TPS	<b>5,720</b> CPW <b>0,000</b>
MW	<b>0,161</b>	MDT2	<b>0,103</b>	E	<b>4,720</b> MWT <b>146,00</b>
GO	<b>0,161</b>	MDL2	<b>0,144</b>	BAL	<b>0,000</b> MCG <b>4,943</b>

INCLINING TEST AND FREEBOARDS					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>14.05.2003</b>			SG <b>1,0130</b>		
FFM	<b>1,248</b>	FF	<b>1,252</b>	SFFP	<b>0,420</b>
FAM	<b>1,025</b>	FA	<b>1,028</b>	SAFP	<b>10,254</b>
W1	<b>70,000</b>	PD1	<b>490,4</b>	WD	<b>10,510</b>
W2	<b>70,000</b>	PD2	<b>486,2</b>	GSA	<b>1,0</b>
W3	<b>70,000</b>	PD3	<b>487,2</b>	RSA	<b>1,0</b>
W4	<b>70,000</b>	PD4	<b>493,4</b>	PLM	<b>9000,0</b>
Maximum beam station from stem					<b>6,497</b>
RM Measured / Default					<b>118,4 / 106,7</b>
Limit of positive stability					<b>119,7</b>
Stability Index					<b>118,6</b>

PROPELLER					
Installation	<b>Out of Aperture</b>			PRD <b>0,380</b>	
Type	<b>Folding</b>			PBW <b>0,112</b>	
Twin Screw	<b>No</b>			PIPA <b>0,0010</b>	
PSA	PHL	ST3	<b>0,170</b>	ESL	<b>1,970</b>
PSD	ST1	<b>0,048</b>	ST4	<b>0,097</b>	
PHD	ST2	<b>0,170</b>	ST5	<b>0,290</b>	

SAILS			
JL	<b>14,79</b>	HB	<b>0,130</b>
LPG	<b>5,35</b>	MSW	<b>20,0</b>
JR	<b>0,00</b>	MGT	<b>0,91</b>
SL		MGU	<b>1,70</b>
SMW		MGM	<b>2,98</b>
SF		MGL	<b>3,94</b>
ASL			
AMG			
ASF			

HEAVY ITEMS			
Headliners			
Anchor Weight	C/R Adjustment	<b>0,00150</b>	
Anchor LCG			

COMMENTS	
Only valid in Norway borrowed inclining	

SAILS RATED AREAS	
Jib / Genoa	<b>39,85</b>
Asymmetric Spin.	<b>89,55</b>
Mainsail	<b>36,39</b>

SAILS INVENTORY														
MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measur	Meas.Date	Manufacturer	Material	Comment		
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measur	Meas.Date	Manufacturer	Material	Comment
SYMMETRIC SPINNAKERS														
Id	SL	SMW	SF	Area	Measur	Meas.Date	Manufacturer	Material	Comment					
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Measur	Meas.Date	Manufacturer	Material	Comment			