

<b>BOAT</b> Name <b>XPLORER</b> Sail Nr <b>16532</b>	<b>GPH</b> <b>650,8</b>	<b>HULL</b> Length Overall <b>10,060 m</b> Maximum Beam <b>3,284 m</b> Displacement <b>4.669 kg</b> Draft <b>1,829 m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,116%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>X-332</b> Designer <b>N.JEPPSEN</b> Builder <b>X-YACHTS</b> Series <b>10/1994</b> Age <b>01/1997</b> Age Allowance <b>0,487%</b> Offset File <b>IX332.BOF - 3/7/1997 13:05:56</b> Measurement by <b>KM - 30/04/2004</b>		IMS L <b>9,198</b> VCGD <b>-0,006</b> Sink <b>17,16 kg/mm</b> RL <b>8,078</b> VCGM <b>0,045</b> WS <b>22,98 m<sup>2</sup></b>




World Leader in Rating Technology

**2015**  
ORC International  
Certificate

**Rating Office**

Offshore  
Racing  
Congress



World Leader in Rating Technology

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>633,5</b>			<b>703,7</b>		
Time On Time	<b>0,9471</b>			<b>0,9592</b>		
Performance Line	<b>0,827</b>	<b>115,4</b>		<b>0,790</b>	<b>188,6</b>	
Triple Number	Low <b>0,9023</b>	Medium <b>1,1714</b>	High <b>1,3180</b>	Low <b>0,6932</b>	Medium <b>0,9524</b>	High <b>1,1095</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1072,1</b>	<b>895,9</b>	<b>791,5</b>	<b>743,0</b>	<b>720,0</b>	<b>707,0</b>	<b>704,5</b>
52°	<b>699,0</b>	<b>589,3</b>	<b>535,5</b>	<b>516,7</b>	<b>508,9</b>	<b>504,8</b>	<b>501,2</b>
60°	<b>658,1</b>	<b>559,8</b>	<b>519,9</b>	<b>502,8</b>	<b>495,0</b>	<b>490,6</b>	<b>486,9</b>
75°	<b>625,1</b>	<b>540,7</b>	<b>509,1</b>	<b>490,2</b>	<b>475,9</b>	<b>466,8</b>	<b>459,8</b>
90°	<b>631,1</b>	<b>544,6</b>	<b>511,0</b>	<b>491,9</b>	<b>474,4</b>	<b>457,4</b>	<b>435,0</b>
110°	<b>671,4</b>	<b>556,5</b>	<b>511,7</b>	<b>486,5</b>	<b>462,0</b>	<b>440,6</b>	<b>422,3</b>
120°	<b>697,7</b>	<b>575,0</b>	<b>520,1</b>	<b>494,2</b>	<b>471,9</b>	<b>448,4</b>	<b>409,6</b>
135°	<b>785,1</b>	<b>640,9</b>	<b>554,8</b>	<b>514,8</b>	<b>491,1</b>	<b>468,6</b>	<b>423,6</b>
150°	<b>934,3</b>	<b>735,5</b>	<b>621,5</b>	<b>549,3</b>	<b>513,2</b>	<b>490,3</b>	<b>446,1</b>
Run VMG	<b>1078,8</b>	<b>847,9</b>	<b>712,0</b>	<b>616,4</b>	<b>551,4</b>	<b>515,2</b>	<b>470,5</b>

**Certificate**

Number **5945**  
ORC Ref **SSF00001171**  
Issued On **30/4/2015**  
VPP Ver. **2015 1.01**  
Valid until **31/12/2015**

**Crew Weight**

Declared **550 kg**  
Default\* **611 kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>671,3</b>	<b>0,8938</b>
Non Spin OSN	<b>651,8</b>	<b>0,9205</b>
N/S Perf. Line	<b>94,8</b>	<b>0,772</b>

Selected Courses							
Windward / Leeward	<b>1075,5</b>	<b>871,9</b>	<b>751,8</b>	<b>679,7</b>	<b>635,7</b>	<b>611,1</b>	<b>587,5</b>
Circular Random	<b>897,4</b>	<b>724,4</b>	<b>631,4</b>	<b>577,3</b>	<b>543,9</b>	<b>522,2</b>	<b>496,2</b>
Ocean for PCS	<b>956,3</b>	<b>756,5</b>	<b>645,4</b>	<b>577,8</b>	<b>533,6</b>	<b>502,5</b>	<b>458,6</b>
Non Spinnaker	<b>934,4</b>	<b>750,4</b>	<b>650,7</b>	<b>592,2</b>	<b>556,0</b>	<b>532,6</b>	<b>504,6</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>3</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>43,5°</b>	<b>42,8°</b>	<b>42,0°</b>	<b>40,1°</b>	<b>38,8°</b>	<b>38,1°</b>	<b>38,9°</b>
Beat VMG	<b>3,36</b>	<b>4,02</b>	<b>4,55</b>	<b>4,85</b>	<b>5,00</b>	<b>5,09</b>	<b>5,11</b>
52°	<b>5,15</b>	<b>6,11</b>	<b>6,72</b>	<b>6,97</b>	<b>7,07</b>	<b>7,13</b>	<b>7,18</b>
60°	<b>5,47</b>	<b>6,43</b>	<b>6,92</b>	<b>7,16</b>	<b>7,27</b>	<b>7,34</b>	<b>7,39</b>
75°	<b>5,76</b>	<b>6,66</b>	<b>7,07</b>	<b>7,34</b>	<b>7,57</b>	<b>7,71</b>	<b>7,83</b>
90°	<b>5,70</b>	<b>6,61</b>	<b>7,05</b>	<b>7,32</b>	<b>7,59</b>	<b>7,87</b>	<b>8,28</b>
110°	<b>5,36</b>	<b>6,47</b>	<b>7,04</b>	<b>7,40</b>	<b>7,79</b>	<b>8,17</b>	<b>8,52</b>
120°	<b>5,16</b>	<b>6,26</b>	<b>6,92</b>	<b>7,29</b>	<b>7,63</b>	<b>8,03</b>	<b>8,79</b>
135°	<b>4,59</b>	<b>5,62</b>	<b>6,49</b>	<b>6,99</b>	<b>7,33</b>	<b>7,68</b>	<b>8,50</b>
150°	<b>3,85</b>	<b>4,89</b>	<b>5,79</b>	<b>6,55</b>	<b>7,01</b>	<b>7,34</b>	<b>8,07</b>
Run VMG	<b>3,34</b>	<b>4,25</b>	<b>5,06</b>	<b>5,84</b>	<b>6,53</b>	<b>6,99</b>	<b>7,65</b>
Gybe Angles	<b>146,0°</b>	<b>152,7°</b>	<b>162,3°</b>	<b>171,5°</b>	<b>176,4°</b>	<b>179,1°</b>	<b>179,3°</b>

**Class Division Length**

CDL = **8,639**

**Storm Sails Areas**


Heavy Weather Jib **23,85**  
Storm Jib (JL=8,64) **8,83**  
Storm Trysail **10,40**

**Owner**

<b>BOAT</b>	
Name <b>XPLORER</b>	Sail Nr <b>16532</b>
File <b>(0)</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>23/08/2009</b>	SG <b>1,000</b>	
FFM <b>1,161</b>	FF <b>1,174</b>	SFFP <b>0,513</b>
FAM <b>0,969</b>	FA <b>0,975</b>	SAFP <b>9,213</b>
W1 <b>17,500</b>	PD1 <b>72,5</b>	WD <b>10,110</b>
W2 <b>35,000</b>	PD2 <b>145,0</b>	GSA <b>0,8</b>
W3 <b>52,500</b>	PD3 <b>218,0</b>	RSA <b>57,5</b>
W4 <b>70,000</b>	PD4 <b>291,0</b>	PLM <b>2470,0</b>
LCF from stem on CL / on sheer		<b>5,598 / 5,827</b>
Maximum beam station from stem		<b>6,331</b>
RM Measured / Default		<b>103,7 / 104,2</b>
Limit of positive stability / Stab.Index		<b>114,6° / 115,5</b>
Freeboard at mast at 3,885		<b>1,071</b>


<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Stay <b>None Fitted</b>	Runners <b>0</b>		
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>		
Taper Hollows <b>No</b>	Jib Furler <b>No</b>		
Fiber Rigging <b>No</b>	Main Furler <b>No</b>		
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>		
Articulated Bowsprit <b>No</b>			
P <b>13,050</b>	E <b>4,555</b>	MDT1 <b>0,110</b>	MW <b>0,165</b>
IG <b>13,180</b>	J <b>3,550</b>	MDL1 <b>0,165</b>	GO <b>0,195</b>
ISP <b>13,180</b>	SFJ <b>0,335</b>	MDT2 <b>0,110</b>	BD <b>0,145</b>
BAS <b>1,720</b>	SPL <b>3,555</b>	MDL2 <b>0,130</b>	MWT <b>114,00</b>
FSP <b>0,064</b>	TPS	TL <b>1,600</b>	MCG <b>4,700</b>



World Leader in Rating Technology

## 2015 Measurements Datasheet

**Certificate**  
Number **5945**  
ORC Ref **SSF00001171**  
Issued On **30/4/2015**  
VPP Ver. **2015 1.01**  
Valid until **31/12/2015**



World Leader In Rating Technology

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,380</b>	
Type <b>Folding 2 blades</b>	PBW <b>0,110</b>	
Twin Screw <b>No</b>	PIPA <b>0,0033</b>	
ST1 <b>0,042</b>	ST3 <b>0,185</b>	ST5 <b>0,280</b>
ST2 <b>0,185</b>	ST4 <b>0,112</b>	EDL <b>1,995</b>

<b>COMMENTS</b>	

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>						
Mainsail	HB	MGT	MGU	MGM	MGL	Area Area (r) Formula
	0,170	0,95	1,72	2,92	3,80	35,25 35,95 $P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric	SL	SMG	SF			
	12,90	6,31	6,07	67,32	$SL \cdot (SF + 4 \cdot SMG) / 6$	
<b>Asymmetric</b> Not Available						

<b>HEADSAILS</b>												
Area = $0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0,08	0,65	1,26	2,51	3,80	5,12	13,17	33,48				Unknow	
0,07	0,70	1,30	2,59	3,91	5,26	12,58	32,96				Unknow	
0,08	0,63	1,22	2,45	3,75	5,12	13,12	32,91				Unknow	

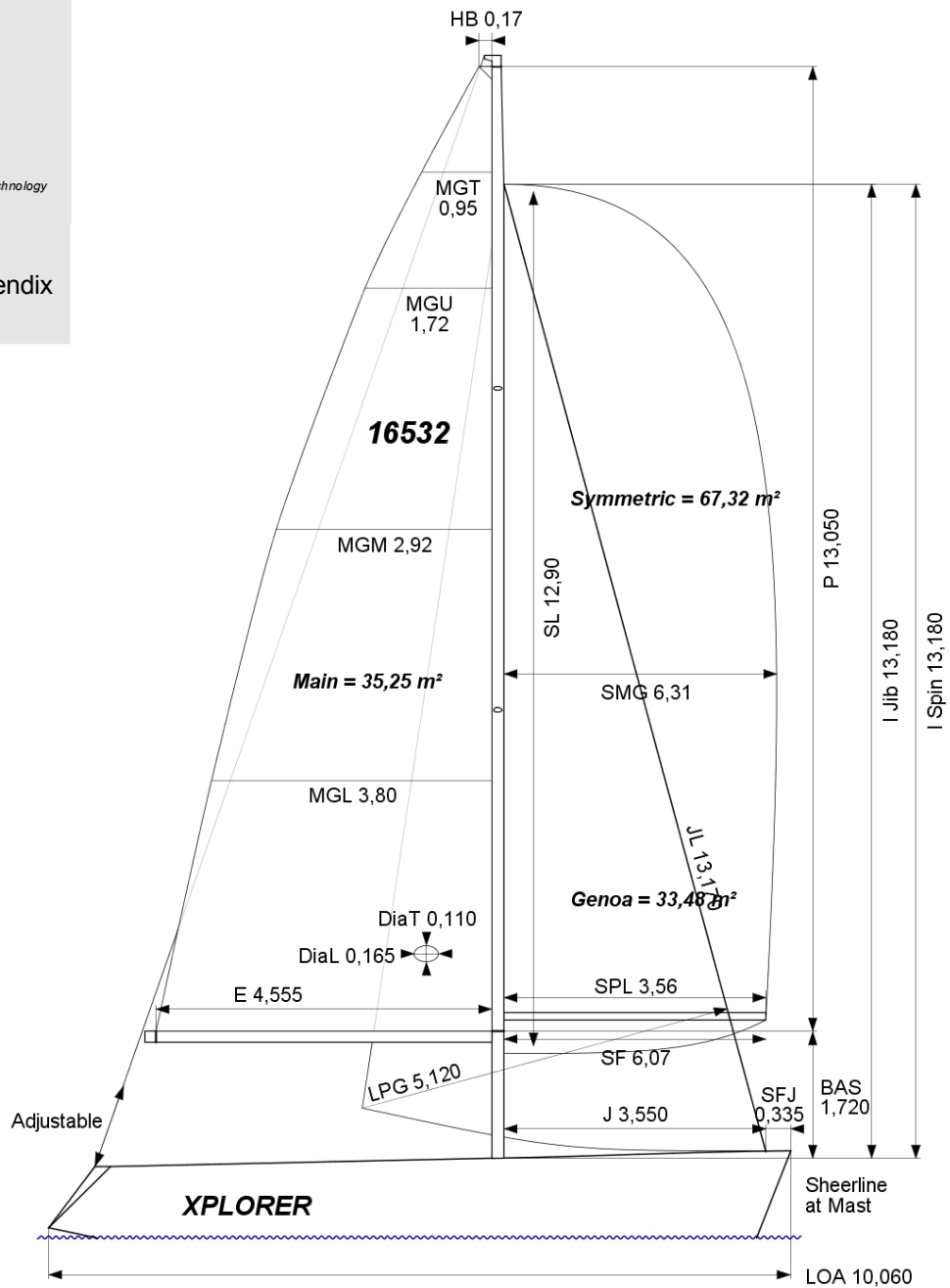
<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>23/08/2009</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40,0	3,50	
2	Anchor	40,0	8,50	
4	Chain	4,0	3,50	
4	Tools	5,0	2,00	
Id	Item	Maker	Model	
1	Engine	Yanmar	2GM20F	
Id	Item	Weight	Description	
4	Deck Gear	10,0		

<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Water		S.Steel	120,0	4,00			0,0 Empty
2	Tank	Fuel		S.Steel	50,0	8,00			0,0 35 ltr
3	Tank	Septic		S.Steel	40,0	8,00			0,0 Empty
Id	Item	Weight	Distance	VCG	Description				
1	Battery	90,0	4,50		3x75Ah				
1	Misc	15,0	3,50		Sheets, guys, mooring equip.				



World Leader in Rating Technology

**2015**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,170	0,95	1,72	2,92	3,80	35,25				Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,08	0,65	1,26	2,51	3,80	5,12	13,17	144%	33,48							Unknow
R	0,07	0,70	1,30	2,59	3,91	5,26	12,58	148%	32,96							Unknow
G2	0,08	0,63	1,22	2,45	3,75	5,12	13,12	144%	32,91							Unknow
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
1	12,90	6,31	6,07	67,32				Unknown								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				