

<b>BOAT</b> Name <b>X-99</b> Sail Nr	<b>GPH</b> <b>621.4</b>	<b>HULL</b> Length Overall <b>10.000m</b> Maximum Beam <b>2.992m</b> Displacement <b>2.982kg</b> Draft <b>1.788m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>X-99</b> Designer <b>NIELS JEPPESEN</b> Builder <b>X-YACHTS</b> Series <b>04/1985</b> Age <b>01/1986</b> Age Allowance <b>0.487%</b> Offset File <b>X99.od - 11/04/2019 22:10:54</b> Measurement by <b>CLASS - 29/07/2015</b>		IMSL <b>8.673m</b> VCGD <b>-0.060m</b> Sink <b>13.62kg/mm</b> RL <b>8.467m</b> VCGM <b>-0.008m</b> WS <b>18.38m<sup>2</sup></b> LSMO <b>8.422m</b> Displacement/Length ratio <b>4.9919</b>



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<b>Rating Office</b>

<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>606.3</b>			<b>677.0</b>		
Time on Time	<b>0.9897</b>			<b>0.9970</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>697.5</b>	<b>554.8</b>	<b>498.7</b>	<b>901.8</b>	<b>678.4</b>	<b>599.8</b>
Time on Time	<b>0.9678</b>	<b>1.2167</b>	<b>1.3536</b>	<b>0.7485</b>	<b>0.9950</b>	<b>1.1254</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>983.5</b>	<b>816.4</b>	<b>749.9</b>	<b>725.7</b>	<b>714.4</b>	<b>713.4</b>	<b>705.9</b>
52°	<b>648.7</b>	<b>557.0</b>	<b>529.4</b>	<b>519.9</b>	<b>515.0</b>	<b>512.2</b>	<b>506.8</b>
60°	<b>615.4</b>	<b>541.4</b>	<b>516.9</b>	<b>506.2</b>	<b>500.3</b>	<b>496.8</b>	<b>490.7</b>
75°	<b>590.8</b>	<b>531.0</b>	<b>505.1</b>	<b>487.0</b>	<b>475.9</b>	<b>469.0</b>	<b>463.1</b>
90°	<b>597.3</b>	<b>531.1</b>	<b>503.0</b>	<b>479.6</b>	<b>459.1</b>	<b>443.9</b>	<b>430.3</b>
110°	<b>621.5</b>	<b>529.7</b>	<b>493.3</b>	<b>463.3</b>	<b>443.9</b>	<b>428.6</b>	<b>406.5</b>
120°	<b>642.9</b>	<b>538.4</b>	<b>498.8</b>	<b>464.7</b>	<b>433.1</b>	<b>408.3</b>	<b>381.5</b>
135°	<b>722.4</b>	<b>583.4</b>	<b>520.8</b>	<b>487.8</b>	<b>454.4</b>	<b>422.1</b>	<b>354.5</b>
150°	<b>873.9</b>	<b>691.4</b>	<b>578.1</b>	<b>520.4</b>	<b>489.6</b>	<b>458.7</b>	<b>398.1</b>
Run VMG	<b>1009.1</b>	<b>798.4</b>	<b>667.6</b>	<b>586.8</b>	<b>534.6</b>	<b>502.0</b>	<b>444.9</b>

<b>Certificate</b>
Number
ORC Ref <b>N/A</b>
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VPP Ver. <b>2019 1.01</b>
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<b>Crew Weight</b>
Default <b>539kg</b>
Maximum <b>512kg</b>
Minimum* <b>384kg</b>
<i>*when applied by the NoR and SI</i>
Non Manual Pwr <b>No</b>

<b>Special Scoring</b>
ToD ToT
Double H.GPH <b>634.8 0.9452</b>
Double H.OSN <b>622.3 0.9642</b>
Non Spin GPH <b>647.6 0.9265</b>
Non Spin OSN <b>631.5 0.9501</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>996.3</b>	<b>807.4</b>	<b>708.7</b>	<b>656.2</b>	<b>624.5</b>	<b>607.7</b>	<b>575.4</b>
Circular Random	<b>843.0</b>	<b>686.2</b>	<b>603.8</b>	<b>556.6</b>	<b>527.5</b>	<b>507.6</b>	<b>479.0</b>
Coastal / Long Distance	<b>997.6</b>	<b>761.0</b>	<b>643.1</b>	<b>577.4</b>	<b>539.6</b>	<b>509.3</b>	<b>459.0</b>
Non Spinnaker	<b>888.8</b>	<b>718.9</b>	<b>628.5</b>	<b>576.3</b>	<b>544.0</b>	<b>522.0</b>	<b>492.0</b>

<b>Sails Limitations</b>	
Headsails <b>5</b>	Spinnakers <b>3</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>42.2°</b>	<b>40.8°</b>	<b>38.8°</b>	<b>37.7°</b>	<b>37.4°</b>	<b>37.6°</b>	<b>37.6°</b>
Beat VMG	<b>3.66</b>	<b>4.41</b>	<b>4.80</b>	<b>4.96</b>	<b>5.04</b>	<b>5.05</b>	<b>5.10</b>
52°	<b>5.55</b>	<b>6.46</b>	<b>6.80</b>	<b>6.92</b>	<b>6.99</b>	<b>7.03</b>	<b>7.10</b>
60°	<b>5.85</b>	<b>6.65</b>	<b>6.97</b>	<b>7.11</b>	<b>7.20</b>	<b>7.25</b>	<b>7.34</b>
75°	<b>6.09</b>	<b>6.78</b>	<b>7.13</b>	<b>7.39</b>	<b>7.57</b>	<b>7.68</b>	<b>7.77</b>
90°	<b>6.03</b>	<b>6.78</b>	<b>7.16</b>	<b>7.51</b>	<b>7.84</b>	<b>8.11</b>	<b>8.37</b>
110°	<b>5.79</b>	<b>6.80</b>	<b>7.30</b>	<b>7.77</b>	<b>8.11</b>	<b>8.40</b>	<b>8.86</b>
120°	<b>5.60</b>	<b>6.69</b>	<b>7.22</b>	<b>7.75</b>	<b>8.31</b>	<b>8.82</b>	<b>9.44</b>
135°	<b>4.98</b>	<b>6.17</b>	<b>6.91</b>	<b>7.38</b>	<b>7.92</b>	<b>8.53</b>	<b>10.15</b>
150°	<b>4.12</b>	<b>5.21</b>	<b>6.23</b>	<b>6.92</b>	<b>7.35</b>	<b>7.85</b>	<b>9.04</b>
Run VMG	<b>3.57</b>	<b>4.51</b>	<b>5.39</b>	<b>6.14</b>	<b>6.73</b>	<b>7.17</b>	<b>8.09</b>
Gybe Angles	<b>144.3°</b>	<b>148.6°</b>	<b>149.6°</b>	<b>158.6°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

<b>Class Division Length</b>
<b>CDL = 8.570</b>

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>17.32</b>
Storm Jib (JL=7.37) <b>6.42</b>
Storm Trysail <b>9.85</b>

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

<b>BOAT</b>	
Name <b>X-99</b>	Sail Nr
File <b>x99</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners <b>1</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>12.500</b>	E <b>4.500</b> MDT1 <b>0.090</b> MW <b>0.136</b>
IG <b>11.325</b>	J <b>3.435</b> MDL1 <b>0.136</b> GO <b>0.136</b>
ISP <b>11.325</b>	SFJ <b>0.000</b> MDT2 <b>0.060</b> BD <b>0.140</b>
BAS <b>1.660</b>	SPL <b>3.450</b> MDL2 <b>0.080</b> MWT <b>77.60</b>
FSP <b>0.000</b>	TPS TL <b>2.100</b> MCG <b>3.950</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>29/07/2015</b>		SG <b>1.0250</b>	
FFM <b>0.997</b>	FF <b>0.997</b>	SFFP <b>0.303</b>	
FAM <b>0.802</b>	FA <b>0.802</b>	SAFP <b>9.175</b>	
W1 <b>41.0</b>	PD1 <b>222.0</b>	WD <b>9.370</b>	
W2 <b>41.0</b>	PD2 <b>220.0</b>	GSA <b>12.6</b>	
W3 <b>41.0</b>	PD3 <b>223.0</b>	RSA <b>4298.7</b>	
W4 <b>41.0</b>	PD4 <b>220.0</b>	PLM <b>2005.0</b>	
LCF from stem on CL / on sheer		<b>5.445 / 5.615</b>	
Maximum beam station from stem		<b>6.027</b>	
RM Measured		<b>60.7kg·m</b>	
RM Default		<b>66.7kg·m</b>	
Limit of positive stability / Stab.Index		<b>114.0° / 111.8</b>	
Freeboard at mast at 3.435		<b>0.946</b>	



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

<b>PROPELLER</b>			
Installation <b>Strut</b>		PRD <b>0.356</b>	
Type <b>Folding 2 blades</b>		PBW <b>0.090</b>	
Twin Screw <b>No</b>		PIPA <b>0.0035</b>	
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.256</b>	
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>1.075</b>	

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<b>COMMENTS</b>	
BASED ON CLASS RULES	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

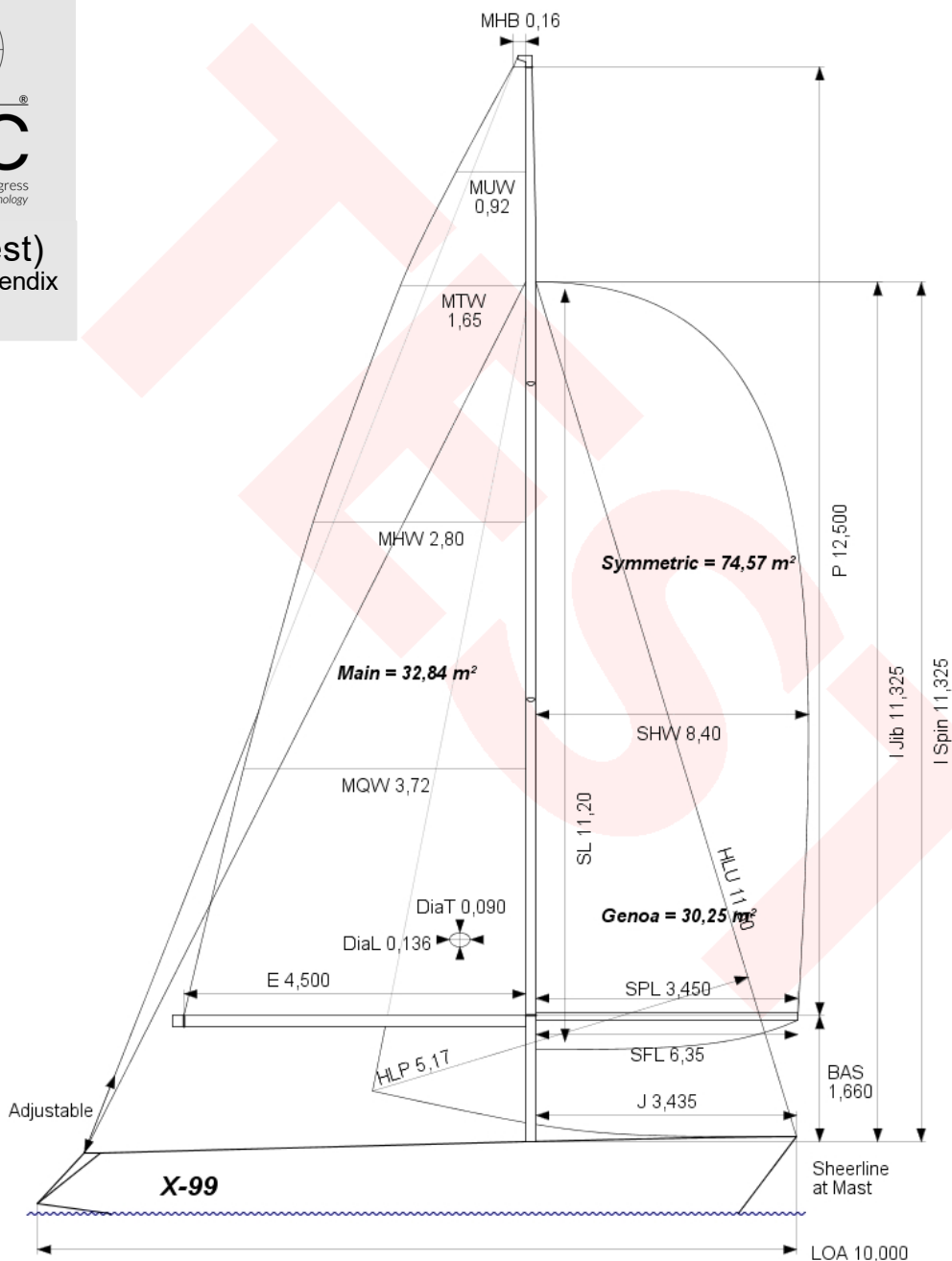
<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.160	0.92	1.65	2.80	3.72	32.84	33.46	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	11.20	11.20	11.20	8.40	6.35	74.57		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric</b>									
Not Available									

<b>HEADSAILS</b>										
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)										
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>
0.10					5.17	11.50	30.25			
Material										
Comment										
* Copied from legacy *										



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.16	0.92	1.65	2.80	3.72	32.84					* Copied from legacy

**HEADSAILS (1)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.10					5.17	11.50	151%	30.25							* Copied from legacy *

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	11.20	11.20	11.20	8.40	6.35	74.58					* Copied from legacy *
ORC2	11.20	11.20	11.20	6.20	6.20	57.87				Unknown	

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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