



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

Žemaites 6  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT1644**  
Issued On **2017-05-20**  
ORC Ref **lt00000105**  
VPP Ver. **2017 1.00**  
Valid until **2017-12-31**

### Crew Weight

Declared **640kg**  
Default\* **655kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **648.0 0.9259**  
Non Spin OSN **629.9 0.9526**

### Sails Limitations

Headsails **5** Spinnakers **3**

### Spinnaker configuration

Symmetric: **Yes 76.91**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 9.094**

### Stability (Estimated)

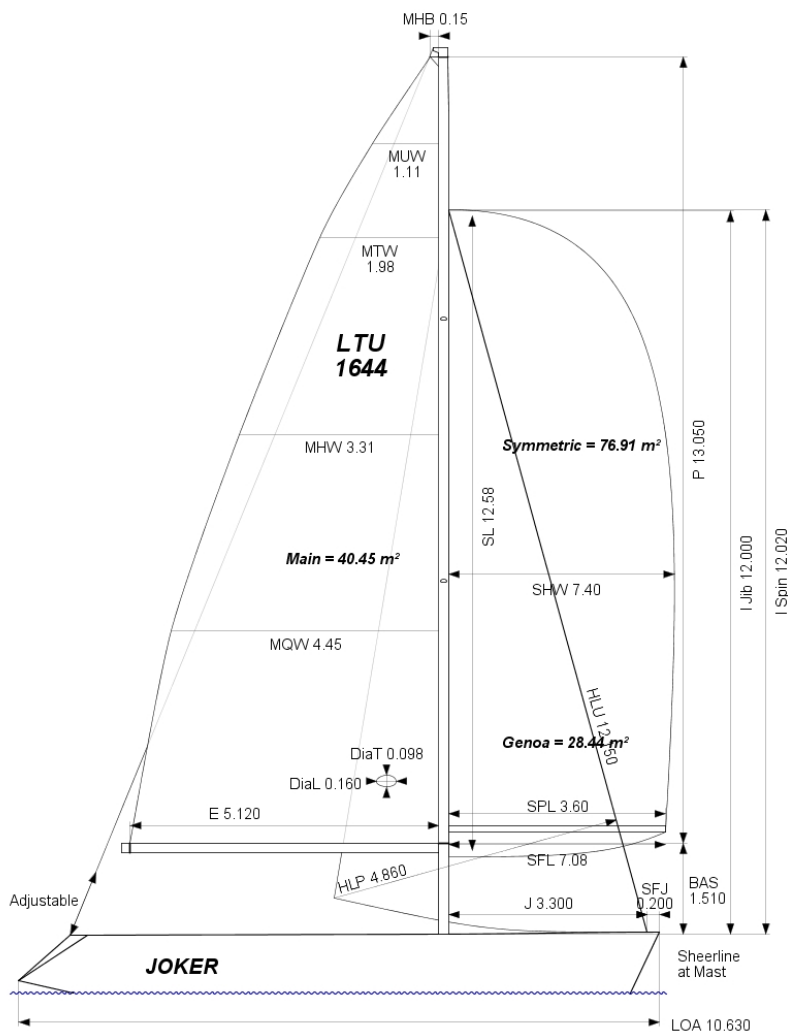
Limit Positive Stab.: **113.8°**  
Stability Index: **110.7**

### Owner

VŠI „AMXSAS“  
Klaipėda  
Lithuania

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>		
Name <b>JOKER</b> Sail Nr <b>LTU 1644</b>		<b>623.1</b>		Data File <b>Joker LTU1644</b>	LOA <b>10.630m</b>	
<b>CLASS</b>				Offset File <b>J35od.OFF</b>	MB <b>3.494m</b>	
Class <b>JOD 35</b>				Displacement <b>4,158kg</b>	Draft <b>1.998m</b>	
Designer <b>ANDRIEU Daniel</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.051%</b>	
Builder <b>JEANNEAU SA</b>				Fwd Accom. <b>No</b>	Construction <b>Solid</b>	
Series <b>06-1991</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>	
Age Date <b>03-1992</b>				Crew Arm Ex	Carbon Rudder <b>No</b>	
Age Allowance <b>0.487%</b>					Light Stanchions <b>No</b>	
<b>COMMENTS</b>				IMSL <b>9.672m</b>	VCGD <b>-0.104m</b>	Sink <b>17.17kg/mm</b>
4,89				RL <b>8.515m</b>	VCGM <b>-0.008m</b>	WS <b>22.79m²</b>
<b>PROPELLER</b>				LSM0 <b>9.653m</b>	Displacement/Length ratio <b>4.6227</b>	
Installation <b>Shaft exposed</b>	PRD <b>0.352</b>			Water Ballast <b>0</b> Trim Tab <b>No</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.101</b>			<b>CENTERBOARD</b>		
	PIPA <b>0.0041</b>			N/A		
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>606.0</b>			<b>679.6</b>		
Time On Time	<b>0.9901</b>			<b>0.9933</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>721.2</b>	<b>550.7</b>	<b>483.1</b>	<b>944.2</b>	<b>683.8</b>	<b>587.0</b>
Time on Time	<b>0.9359</b>	<b>1.2258</b>	<b>1.3971</b>	<b>0.7149</b>	<b>0.9872</b>	<b>1.1500</b>

<b>BOAT</b>	
Name <b>JOKER</b>	Sail Nr <b>LTU 1644</b>
File <b>Joker LTU1644</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>02-06-2005</b>		SG	
FFM	FF	1.001	SFFP 0.335
FAM	FA	0.956	SAFP 9.488
LCF from stem on CL / on sheer		5.724 / 5.962	
Maximum beam station from stem		7.310	
RM Measured		98.6kg·m	
RM Default		95.8kg·m	
Limit of positive stability / Stab.Index		113.8° / 110.7	
Freeboard at mast at 3.500		0.971	

<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>5.120</b>	MDT1 <b>0.098</b>	MW <b>0.160</b>
IG <b>12.000</b>	J <b>3.300</b>	MDL1 <b>0.160</b>	GO <b>0.180</b>
ISP <b>12.020</b>	SFJ <b>0.200</b>	MDT2 <b>0.098</b>	BD <b>0.148</b>
BAS <b>1.510</b>	SPL <b>3.600</b>	MDL2 <b>0.140</b>	MWT <b>121.00</b>
FSP <b>-3.000</b>	TPS	TL <b>0.960</b>	MCG <b>4.780</b>



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## 2017 Measurements Datasheet

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

<b>PROPELLER</b>			
Installation <b>Shaft exposed</b>	PRD	0.352	
Type <b>Folding 2 blades</b>	PBW	0.101	
Twin Screw <b>No</b>	PIPA	0.0041	
PSA <b>16.000</b>	PHL <b>0.115</b>	ST3 <b>0.085</b>	ESL <b>0.845</b>
PSD <b>0.024</b>	ST1 <b>0.022</b>	ST4 <b>0.051</b>	
PHD <b>0.068</b>	ST2 <b>0.076</b>	ST5 <b>0.185</b>	

**Certificate**

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<b>COMMENTS</b>	
4,89	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																	
<b>MANSAL (2)</b>																	
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
1	0.150	1.11	1.98	3.31	4.45	40.45				Kevlar	yellow						
2	0.150	1.11	1.98	3.31	4.32	40.02	DEN 212	28-04-2017		Unknown							
<b>HEADSAILS (4)</b>																	
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment	
4	0.06	0.54	1.08	2.26	3.54	4.86	12.15	147%	28.45							Unknown	
2	0.08	0.62	1.18	2.31	3.52	4.85	11.77	147%	27.94							Pentex	grey
5	0.09	0.58	1.13	2.27	3.57	4.90	11.70	148%	27.75			G.	19-05-2017			Unknown	
3	0.15	0.59	1.04	1.92	2.78	3.53	11.60	107%	21.83	Y						Kevlar	yellow
<b>SYMMETRIC SPINNAKERS (4)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
1	12.58	12.58	12.58	7.40	7.08	76.91				Nylon	blue/white/else						
4	12.60	12.60	12.60	7.08	7.72	75.68	G. Misiunas	19-05-2017		Unknown							
3	12.00	12.00	12.00	7.00	6.74	69.48				Unknown							
2	12.18	12.18	12.18	5.96	5.72	60.01				Nylon	red						
<b>ASYMMETRIC SPINNAKERS (0)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment					



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# 2017

## ORC Club Certificate Appendix

BOAT	
Name <b>JOKER</b>	Certificate Number <b>LT1644</b>
Sail Nr <b>LTU 1644</b>	Issued On <b>2017-05-20</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1060.6</b>	<b>874.6</b>	<b>772.5</b>	<b>723.6</b>	<b>701.4</b>	<b>689.5</b>	<b>682.7</b>
52°	<b>688.0</b>	<b>574.7</b>	<b>520.8</b>	<b>500.0</b>	<b>491.4</b>	<b>486.4</b>	<b>482.5</b>
60°	<b>644.7</b>	<b>544.4</b>	<b>504.0</b>	<b>485.1</b>	<b>475.3</b>	<b>469.0</b>	<b>463.0</b>
75°	<b>608.8</b>	<b>523.3</b>	<b>491.4</b>	<b>469.4</b>	<b>450.6</b>	<b>438.4</b>	<b>427.6</b>
90°	<b>608.4</b>	<b>521.5</b>	<b>485.7</b>	<b>466.2</b>	<b>443.1</b>	<b>421.7</b>	<b>395.1</b>
110°	<b>633.8</b>	<b>524.8</b>	<b>483.7</b>	<b>453.4</b>	<b>424.0</b>	<b>407.7</b>	<b>380.8</b>
120°	<b>656.5</b>	<b>538.4</b>	<b>491.1</b>	<b>461.8</b>	<b>430.9</b>	<b>400.5</b>	<b>361.3</b>
135°	<b>737.5</b>	<b>594.2</b>	<b>515.9</b>	<b>482.4</b>	<b>454.8</b>	<b>425.9</b>	<b>368.0</b>
150°	<b>892.7</b>	<b>702.0</b>	<b>585.1</b>	<b>514.5</b>	<b>483.3</b>	<b>457.5</b>	<b>404.6</b>
Run VMG	<b>1030.8</b>	<b>810.5</b>	<b>675.6</b>	<b>585.8</b>	<b>530.3</b>	<b>493.8</b>	<b>443.4</b>

Selected Courses							
Windward / Leeward	<b>1045.7</b>	<b>842.6</b>	<b>724.1</b>	<b>654.7</b>	<b>615.8</b>	<b>591.6</b>	<b>563.1</b>
Circular Random	<b>864.8</b>	<b>695.7</b>	<b>604.3</b>	<b>550.4</b>	<b>516.4</b>	<b>493.4</b>	<b>463.2</b>
Ocean for PCS	<b>1069.6</b>	<b>821.2</b>	<b>680.5</b>	<b>594.0</b>	<b>537.0</b>	<b>496.4</b>	<b>438.7</b>
Non Spinnaker	<b>907.7</b>	<b>726.6</b>	<b>627.9</b>	<b>569.5</b>	<b>532.7</b>	<b>507.8</b>	<b>474.8</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>43.7°</b>	<b>42.4°</b>	<b>42.0°</b>	<b>40.4°</b>	<b>39.6°</b>	<b>39.1°</b>	<b>39.2°</b>
Beat VMG	<b>3.39</b>	<b>4.12</b>	<b>4.66</b>	<b>4.98</b>	<b>5.13</b>	<b>5.22</b>	<b>5.27</b>
52°	<b>5.23</b>	<b>6.26</b>	<b>6.91</b>	<b>7.20</b>	<b>7.33</b>	<b>7.40</b>	<b>7.46</b>
60°	<b>5.58</b>	<b>6.61</b>	<b>7.14</b>	<b>7.42</b>	<b>7.57</b>	<b>7.68</b>	<b>7.78</b>
75°	<b>5.91</b>	<b>6.88</b>	<b>7.33</b>	<b>7.67</b>	<b>7.99</b>	<b>8.21</b>	<b>8.42</b>
90°	<b>5.92</b>	<b>6.90</b>	<b>7.41</b>	<b>7.72</b>	<b>8.12</b>	<b>8.54</b>	<b>9.11</b>
110°	<b>5.68</b>	<b>6.86</b>	<b>7.44</b>	<b>7.94</b>	<b>8.49</b>	<b>8.83</b>	<b>9.45</b>
120°	<b>5.48</b>	<b>6.69</b>	<b>7.33</b>	<b>7.80</b>	<b>8.36</b>	<b>8.99</b>	<b>9.96</b>
135°	<b>4.88</b>	<b>6.06</b>	<b>6.98</b>	<b>7.46</b>	<b>7.92</b>	<b>8.45</b>	<b>9.78</b>
150°	<b>4.03</b>	<b>5.13</b>	<b>6.15</b>	<b>7.00</b>	<b>7.45</b>	<b>7.87</b>	<b>8.90</b>
Run VMG	<b>3.49</b>	<b>4.44</b>	<b>5.33</b>	<b>6.15</b>	<b>6.79</b>	<b>7.29</b>	<b>8.12</b>
Gybe Angles	<b>137.2°</b>	<b>149.5°</b>	<b>148.5°</b>	<b>157.0°</b>	<b>174.8°</b>	<b>180.0°</b>	<b>180.0°</b>