



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

**Žemaites 6**  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT632**  
Issued On **2017-06-30**  
ORC Ref **lt00000181**  
VPP Ver. **2017 1.00**  
Valid until **2017-12-31**

### Crew Weight

Declared **1,163kg**  
Default\* **1,163kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin	GPH <b>611.2</b>	<b>0.9817</b>
Non Spin	OSN <b>592.6</b>	<b>1.0125</b>

### Sails Limitations

Headsails **1** Spinnakers **5**  
**Dacron Sails**

**Spinnaker configuration**  
Symmetric: **Yes 228.49**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 12.026**

### Stability (Measured)

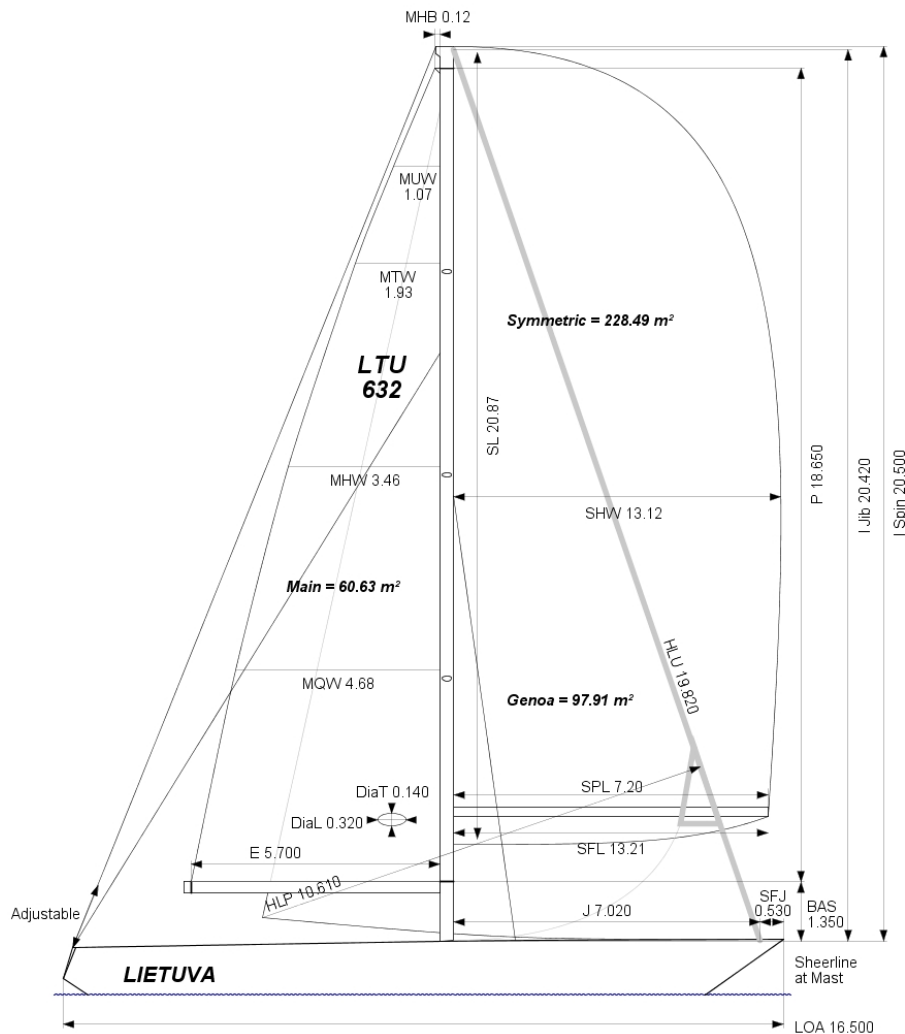
Limit Positive Stab.: **107.5°**  
Stability Index: **119.9**

### Owner

Sporto klubas Ostmarina  
Pilies 3-35

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>			
Name <b>LIETUVA</b>		<b>579.9</b>		Data File <b>Lietuva LTU632</b>	LOA <b>16.500m</b>		
Sail Nr <b>LTU 632</b>				Offset File <b>C54_172.off</b>	MB <b>4.704m</b>		
				Displacement <b>21,834kg</b>	Draft <b>2.915m</b>		
<b>CLASS</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.506%</b>		
Class <b>Conrad 54</b>				Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>		
Designer				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>st.yachtova,Gdansk</b>				Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>06-1972</b>					Light Stanchions <b>No</b>		
Age Date <b>06-1976</b>				IMSL <b>14.242m</b>	VCGD <b>0.042m</b>	Sink <b>40.80kg/mm</b>	
Age Allowance <b>0.487%</b>				RL <b>9.808m</b>	VCGM <b>0.109m</b>	WS <b>59.10m²</b>	
<b>COMMENTS</b>				LSM0 <b>14.444m</b>	Displacement/Length ratio <b>7.2455</b>		
				Water Ballast <b>0</b>	Trim Tab <b>No</b>		
<b>PROPELLER</b>				<b>CENTERBOARD</b>			
Installation <b>Shaft exposed</b>	PRD <b>0.470</b>			<b>N/A</b>			
Type <b>Feathering 3 blades</b>	PIPA <b>0.0014</b>						

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	<b>561.7</b>			<b>631.4</b>	
Time On Time	<b>1.0683</b>			<b>1.0691</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>690.5</b>	<b>507.8</b>	<b>437.9</b>	<b>904.2</b>	<b>640.7</b>	<b>525.2</b>
Time on Time	<b>0.9775</b>	<b>1.3293</b>	<b>1.5416</b>	<b>0.7465</b>	<b>1.0535</b>	<b>1.2852</b>

<b>BOAT</b>	
Name <b>LIETUVA</b>	Sail Nr <b>LTU 632</b>
File <b>Lietuva LTU632 int</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>28-06-2011</b>		SG <b>1.0030</b>	
FFM <b>1.240</b>	FF <b>1.265</b>	SFFP <b>1.674</b>	
FAM <b>1.070</b>	FA <b>1.084</b>	SAFP <b>16.211</b>	
W1 <b>85.5</b>	PD1 <b>52.8</b>	WD <b>14.320</b>	
W2 <b>85.5</b>	PD2 <b>55.5</b>	GSA <b>28.3</b>	
W3 <b>85.5</b>	PD3 <b>54.8</b>	RSA <b>28.3</b>	
W4 <b>85.5</b>	PD4 <b>54.3</b>	PLM <b>2450.0</b>	
LCF from stem on CL / on sheer		<b>9.858 / 10.121</b>	
Maximum beam station from stem		<b>9.734</b>	
RM Measured		<b>483.1kg·m</b>	
RM Default		<b>483.5kg·m</b>	
Limit of positive stability / Stab.Index		<b>107.5° / 119.9</b>	
Freeboard at mast at 7.550		<b>1.234</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>3</b>		
Inner Stay <b>Fixed</b>	Runners <b>1</b>		
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>		
Taper Hollows <b>No</b>	Jib Furler <b>Yes</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>18.650</b>	E <b>5.700</b>	MDT1 <b>0.140</b>	MW <b>0.265</b>
IG <b>20.420</b>	J <b>7.020</b>	MDL1 <b>0.320</b>	GO <b>0.265</b>
ISP <b>20.500</b>	SFJ <b>0.530</b>	MDT2 <b>0.140</b>	BD <b>0.250</b>
BAS <b>1.350</b>	SPL <b>7.200</b>	MDL2 <b>0.320</b>	MWT
FSP <b>0.090</b>	TPS	TL <b>0.000</b>	MCG



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## 2017 Measurements Datasheet

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

<b>PROPELLER</b>			
Installation <b>Shaft exposed</b>	PRD <b>0.470</b>		
Type <b>Feathering 3 blades</b>	PBW		
Twin Screw <b>No</b>	PIPA <b>0.0014</b>		
PSA	PHL <b>0.050</b>	ST3	ESL
PSD <b>0.040</b>	ST1	ST4	
PHD <b>0.070</b>	ST2	ST5	

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<b>COMMENTS</b>

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

<b>CENTERBOARD</b>
N/A

<b>SAILS INVENTORY</b>																
<b>MANSAL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.125	1.07	1.93	3.46	4.68	60.63	LBS#7	05-05-2012		Unknown						
<b>HEADSAILS (2)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.10	1.07	2.15	4.61	7.51	10.61	19.82	151%	97.92			LBS#7	22-06-2011	sail Service,	Dacron	leech 19,11, foot 11,17
BJ	0.05	0.58	1.21	2.72	4.45	8.41	18.31	120%	59.56			LBS#7	22-06-2011	Sail Service,	Dacron	leech 15.87, foot 7.47
<b>SYMMETRIC SPINNAKERS (2)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	20.87	20.87	20.87	13.12	13.21	228.49	LBS#7	05-05-2012		Unknown						
RS	19.53	19.53	19.53	8.72	8.50	141.20	LBS#7	22-06-2011		Nylon						
<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>LIETUVA</b>
Certificate Number	<b>LT632</b>
Sail Nr	<b>LTU 632</b>
Issued On	<b>2017-06-30</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1042.0</b>	<b>847.8</b>	<b>744.7</b>	<b>674.3</b>	<b>631.3</b>	<b>606.4</b>	<b>580.5</b>
52°	<b>667.4</b>	<b>554.8</b>	<b>487.8</b>	<b>447.1</b>	<b>429.6</b>	<b>421.7</b>	<b>414.2</b>
60°	<b>622.0</b>	<b>522.1</b>	<b>460.4</b>	<b>430.8</b>	<b>417.1</b>	<b>410.0</b>	<b>403.2</b>
75°	<b>585.2</b>	<b>493.4</b>	<b>441.4</b>	<b>419.1</b>	<b>406.6</b>	<b>397.4</b>	<b>386.6</b>
90°	<b>584.3</b>	<b>493.0</b>	<b>439.9</b>	<b>417.2</b>	<b>404.2</b>	<b>394.0</b>	<b>376.1</b>
110°	<b>613.8</b>	<b>499.7</b>	<b>435.8</b>	<b>410.1</b>	<b>397.1</b>	<b>389.6</b>	<b>376.2</b>
120°	<b>628.1</b>	<b>511.4</b>	<b>442.9</b>	<b>413.5</b>	<b>396.6</b>	<b>382.1</b>	<b>364.7</b>
135°	<b>698.3</b>	<b>557.5</b>	<b>475.5</b>	<b>429.7</b>	<b>408.1</b>	<b>392.9</b>	<b>362.9</b>
150°	<b>837.7</b>	<b>657.9</b>	<b>546.4</b>	<b>475.3</b>	<b>433.0</b>	<b>411.5</b>	<b>383.2</b>
Run VMG	<b>967.3</b>	<b>759.7</b>	<b>630.9</b>	<b>548.3</b>	<b>494.3</b>	<b>456.0</b>	<b>407.9</b>

Selected Courses							
Windward / Leeward	<b>1004.6</b>	<b>803.7</b>	<b>687.8</b>	<b>611.3</b>	<b>562.8</b>	<b>531.2</b>	<b>494.2</b>
Circular Random	<b>820.7</b>	<b>653.7</b>	<b>561.5</b>	<b>506.1</b>	<b>471.3</b>	<b>448.5</b>	<b>420.3</b>
Ocean for PCS	<b>1014.4</b>	<b>772.0</b>	<b>633.1</b>	<b>547.2</b>	<b>491.5</b>	<b>453.9</b>	<b>405.7</b>
Non Spinnaker	<b>874.9</b>	<b>693.1</b>	<b>591.5</b>	<b>529.4</b>	<b>489.5</b>	<b>462.8</b>	<b>430.1</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>44.9°</b>	<b>42.9°</b>	<b>42.3°</b>	<b>42.8°</b>	<b>41.6°</b>	<b>40.3°</b>	<b>38.4°</b>
Beat VMG	<b>3.45</b>	<b>4.25</b>	<b>4.83</b>	<b>5.34</b>	<b>5.70</b>	<b>5.94</b>	<b>6.20</b>
52°	<b>5.39</b>	<b>6.49</b>	<b>7.38</b>	<b>8.05</b>	<b>8.38</b>	<b>8.54</b>	<b>8.69</b>
60°	<b>5.79</b>	<b>6.89</b>	<b>7.82</b>	<b>8.36</b>	<b>8.63</b>	<b>8.78</b>	<b>8.93</b>
75°	<b>6.15</b>	<b>7.30</b>	<b>8.16</b>	<b>8.59</b>	<b>8.85</b>	<b>9.06</b>	<b>9.31</b>
90°	<b>6.16</b>	<b>7.30</b>	<b>8.18</b>	<b>8.63</b>	<b>8.91</b>	<b>9.14</b>	<b>9.57</b>
110°	<b>5.87</b>	<b>7.20</b>	<b>8.26</b>	<b>8.78</b>	<b>9.07</b>	<b>9.24</b>	<b>9.57</b>
120°	<b>5.73</b>	<b>7.04</b>	<b>8.13</b>	<b>8.71</b>	<b>9.08</b>	<b>9.42</b>	<b>9.87</b>
135°	<b>5.16</b>	<b>6.46</b>	<b>7.57</b>	<b>8.38</b>	<b>8.82</b>	<b>9.16</b>	<b>9.92</b>
150°	<b>4.30</b>	<b>5.47</b>	<b>6.59</b>	<b>7.57</b>	<b>8.31</b>	<b>8.75</b>	<b>9.39</b>
Run VMG	<b>3.72</b>	<b>4.74</b>	<b>5.71</b>	<b>6.57</b>	<b>7.28</b>	<b>7.89</b>	<b>8.83</b>
Gybe Angles	<b>139.2°</b>	<b>148.1°</b>	<b>147.3°</b>	<b>150.9°</b>	<b>155.8°</b>	<b>169.8°</b>	<b>180.0°</b>