



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

Pemaites 6  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT2003**  
Issued On **2017-10-13**  
ORC Ref **lt00000332**  
VPP Ver. **2017 1.00**  
Valid until **2017-12-31**

### Crew Weight

Declared **520kg**  
Default\* **659kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **659,1 0,9103**  
Non Spin OSN **638,5 0,9397**

### Sails Limitations

Headsails **5** Spinnakers **3**  
**Dacron Sails**

**Spinnaker configuration**  
Symmetric: **Yes 58,41**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 9,030**

### Stability (Estimated)

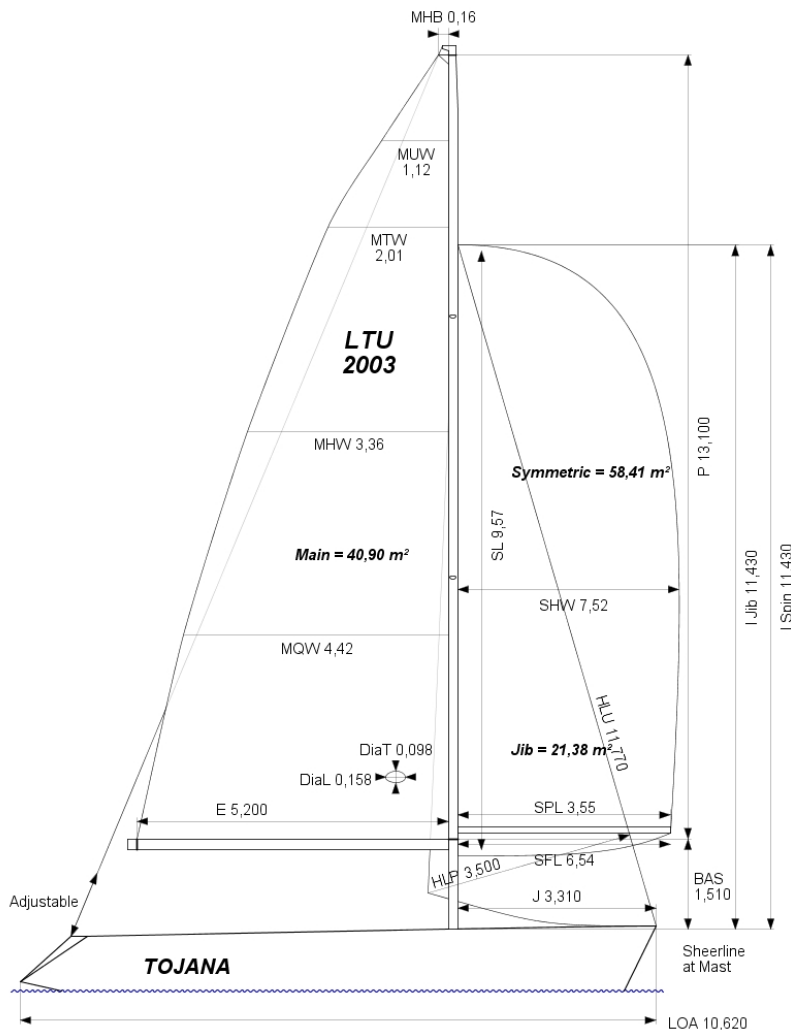
Limit Positive Stab.: **112,7°**  
Stability Index: **108,4**

### Owner

Darius Gerasimavicius  
Vilnius  
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>TOJANA</b> Sail Nr <b>LTU 2003</b>		<b>634,9</b>		Data File <b>Tojana LTU2003</b>	LOA <b>10,620m</b>		
				Offset File <b>J35od.OFF</b>	MB <b>3,494m</b>		
				Displacement <b>3,876kg</b>	Draft <b>1,986m</b>		
<b>CLASS</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0,239%</b>		
Class <b>JOD 35</b>				Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>		
Designer <b>ANDRIEU Daniel</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>JEANNEAU SA</b>				Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>03-1991</b>					Light Stanchions <b>No</b>		
Age Date <b>03-1992</b>				IMSL <b>9,739m</b>	VCGD <b>-0,110m</b>	Sink <b>17,21kg/mm</b>	
Age Allowance <b>0,487%</b>				RL <b>8,320m</b>	VCGM <b>0,008m</b>	WS <b>22,58m²</b>	
<b>COMMENTS</b>				LSM0 <b>9,697m</b>	Displacement/Length ratio <b>4,2508</b>		
				Water Ballast <b>0</b>	Trim Tab <b>No</b>		
<b>PROPELLER</b>				<b>CENTERBOARD</b>			
Installation <b>Shaft exposed</b>	PRD <b>0,350</b>			<b>N/A</b>			
Type <b>Folding 2 blades</b>	PBW <b>0,120</b>						
	PIPA <b>0,0040</b>						
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time On Distance	<b>616,4</b>			<b>692,1</b>			
Time On Time	<b>0,9734</b>			<b>0,9753</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>742,1</b>	<b>559,1</b>	<b>486,6</b>	<b>972,2</b>	<b>697,3</b>	<b>592,8</b>	
Time on Time	<b>0,9096</b>	<b>1,2072</b>	<b>1,3871</b>	<b>0,6943</b>	<b>0,9680</b>	<b>1,1386</b>	

<b>BOAT</b>	
Name <b>TOJANA</b>	Sail Nr <b>LTU 2003</b>
File <b>Tojana LTU2003</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Club Estimated VCG</b>		
Flotation date <b>18-05-2010</b>	SG <b>1,0000</b>	
FFM <b>1,079</b>	FF <b>1,093</b>	SFFP <b>0,335</b>
FAM <b>0,913</b>	FA <b>0,922</b>	SAFP <b>9,488</b>
LCF from stem on CL / on sheer		<b>5,895 / 6,123</b>
Maximum beam station from stem		<b>7,310</b>
RM Measured		<b>96,9kg-m</b>
RM Default		<b>94,1kg-m</b>
Limit of positive stability / Stab.Index		<b>112,7° / 108,4</b>
Freeboard at mast at 3,310		<b>1,024</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>13,100</b>	E <b>5,200</b>	MDT1 <b>0,098</b>	MW <b>0,158</b>	
IG <b>11,430</b>	J <b>3,310</b>	MDL1 <b>0,158</b>	GO <b>0,183</b>	
ISP <b>11,430</b>	SFJ	MDT2 <b>0,095</b>	BD	
BAS <b>1,510</b>	SPL <b>3,550</b>	MDL2 <b>0,132</b>	MWT	
FSP	TPS	TL <b>0,970</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>0,350</b>	
Type <b>Folding 2 blades</b>	PBW <b>0,120</b>	
Twin Screw <b>No</b>	PIPA <b>0,0040</b>	
PSA <b>16,600</b>	PHL <b>0,110</b>	ST3 <b>0,090</b> ESL <b>0,837</b>
PSD <b>0,025</b>	ST1 <b>0,023</b>	ST4 <b>0,051</b>
PHD <b>0,065</b>	ST2 <b>0,075</b>	ST5 <b>0,185</b>

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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					
M	0,160	1,12	2,01	3,36	4,42	40,90	LBS 7			Unknown						
<b>HEADSAILS (2)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
j1	0,08	0,52	0,94	1,85	2,71	3,50	11,77	106%	21,38	Y		LBS 7			Unknown	
2						3,94	10,53	119%	21,12			G.Misiuna	30-05-2009		Unknown	
<b>SYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	9,57	9,57	9,57	7,52	6,54	58,41		31-07-2004		Unknown						
<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>TOJANA</b>
Sail Nr	<b>LTU 2003</b>
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Issued On	<b>2017-10-13</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1101,6</b>	<b>901,6</b>	<b>791,1</b>	<b>732,1</b>	<b>708,7</b>	<b>697,3</b>	<b>685,1</b>
52°	<b>713,1</b>	<b>592,1</b>	<b>529,8</b>	<b>504,8</b>	<b>495,1</b>	<b>489,7</b>	<b>482,8</b>
60°	<b>667,1</b>	<b>558,1</b>	<b>510,7</b>	<b>489,5</b>	<b>478,1</b>	<b>471,8</b>	<b>465,8</b>
75°	<b>629,4</b>	<b>533,6</b>	<b>496,8</b>	<b>474,0</b>	<b>453,9</b>	<b>439,7</b>	<b>428,3</b>
90°	<b>629,8</b>	<b>530,0</b>	<b>488,0</b>	<b>463,4</b>	<b>447,1</b>	<b>424,4</b>	<b>394,2</b>
110°	<b>647,5</b>	<b>533,4</b>	<b>489,0</b>	<b>458,9</b>	<b>427,2</b>	<b>403,0</b>	<b>375,8</b>
120°	<b>674,7</b>	<b>551,1</b>	<b>497,7</b>	<b>468,0</b>	<b>437,8</b>	<b>407,7</b>	<b>356,7</b>
135°	<b>760,9</b>	<b>612,7</b>	<b>529,0</b>	<b>490,8</b>	<b>463,5</b>	<b>434,4</b>	<b>376,9</b>
150°	<b>916,4</b>	<b>716,5</b>	<b>599,6</b>	<b>526,5</b>	<b>491,1</b>	<b>465,1</b>	<b>411,4</b>
Run VMG	<b>1058,2</b>	<b>827,4</b>	<b>691,9</b>	<b>600,8</b>	<b>539,2</b>	<b>499,4</b>	<b>447,9</b>

Selected Courses							
Windward / Leeward	<b>1079,9</b>	<b>864,5</b>	<b>741,5</b>	<b>666,4</b>	<b>623,9</b>	<b>598,4</b>	<b>566,5</b>
Circular Random	<b>888,1</b>	<b>711,5</b>	<b>615,3</b>	<b>558,3</b>	<b>522,2</b>	<b>497,6</b>	<b>464,5</b>
Ocean for PCS	<b>1098,5</b>	<b>840,1</b>	<b>693,5</b>	<b>603,2</b>	<b>543,5</b>	<b>500,8</b>	<b>438,9</b>
Non Spinnaker	<b>930,5</b>	<b>741,6</b>	<b>638,1</b>	<b>576,6</b>	<b>537,7</b>	<b>511,6</b>	<b>476,9</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>43,6°</b>	<b>42,3°</b>	<b>41,9°</b>	<b>40,3°</b>	<b>39,2°</b>	<b>38,8°</b>	<b>39,3°</b>
Beat VMG	<b>3,27</b>	<b>3,99</b>	<b>4,55</b>	<b>4,92</b>	<b>5,08</b>	<b>5,16</b>	<b>5,25</b>
52°	<b>5,05</b>	<b>6,08</b>	<b>6,80</b>	<b>7,13</b>	<b>7,27</b>	<b>7,35</b>	<b>7,46</b>
60°	<b>5,40</b>	<b>6,45</b>	<b>7,05</b>	<b>7,35</b>	<b>7,53</b>	<b>7,63</b>	<b>7,73</b>
75°	<b>5,72</b>	<b>6,75</b>	<b>7,25</b>	<b>7,59</b>	<b>7,93</b>	<b>8,19</b>	<b>8,41</b>
90°	<b>5,72</b>	<b>6,79</b>	<b>7,38</b>	<b>7,77</b>	<b>8,05</b>	<b>8,48</b>	<b>9,13</b>
110°	<b>5,56</b>	<b>6,75</b>	<b>7,36</b>	<b>7,84</b>	<b>8,43</b>	<b>8,93</b>	<b>9,58</b>
120°	<b>5,34</b>	<b>6,53</b>	<b>7,23</b>	<b>7,69</b>	<b>8,22</b>	<b>8,83</b>	<b>10,09</b>
135°	<b>4,73</b>	<b>5,88</b>	<b>6,81</b>	<b>7,33</b>	<b>7,77</b>	<b>8,29</b>	<b>9,55</b>
150°	<b>3,93</b>	<b>5,02</b>	<b>6,00</b>	<b>6,84</b>	<b>7,33</b>	<b>7,74</b>	<b>8,75</b>
Run VMG	<b>3,40</b>	<b>4,35</b>	<b>5,20</b>	<b>5,99</b>	<b>6,68</b>	<b>7,21</b>	<b>8,04</b>
Gybe Angles	<b>144,7°</b>	<b>149,7°</b>	<b>151,8°</b>	<b>157,1°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>