



World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

Žemaites 6
LT-03117 Vilnius
Lithuania
+370 650 28392



Certificate

Number **LT2003**
Issued On **2017-06-14**
ORC Ref **lt00000149**
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 69.48**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.030

Stability (Estimated)

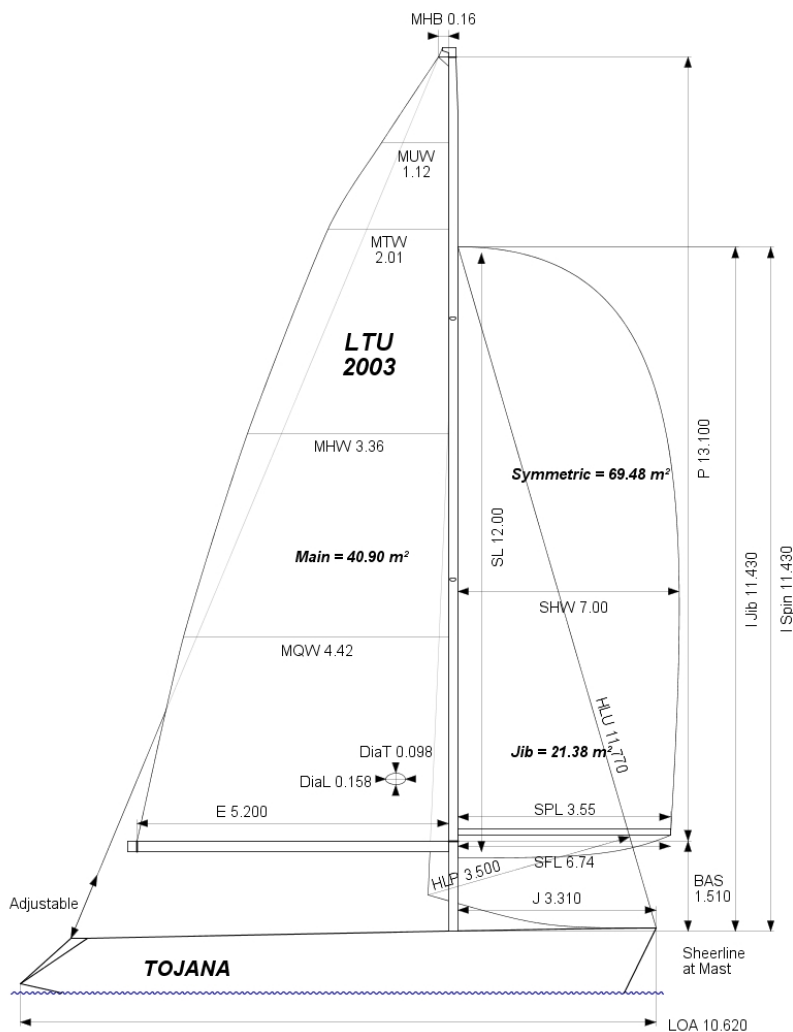
Limit Positive Stab.: **112.7°**
Stability Index: **108.4**

Owner

Darius Gerasimavicius
Vilnius
Lithuania

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

Signature



BOAT		GPH		HULL		
Name TOJANA Sail Nr LTU 2003		631.0		Data File Tojana LTU2003	LOA 10.620m	
				Offset File J35od.OFF	MB 3.494m	
				Displacement 3,876kg	Draft 1.986m	
				IMS Division Cruiser/Racer	Dynamic All. 0.185%	
				Fwd Accom. Yes	Construction Solid	
				Fiber Rigging No	Aramid Core No	
				Crew Arm Ex	Carbon Rudder No	
					Light Stanchions No	
				IMSL 9.739m	VCGD -0.110m	Sink 17.21kg/mm
				RL 8.320m	VCGM 0.008m	WS 22.58m²
				LSM0 9.697m	Displacement/Length ratio 4.2508	
				Water Ballast 0 Trim Tab No		
CLASS		CENTERBOARD				
Class JOD 35		N/A				
Designer ANDRIEU Daniel						
Builder JEANNEAU SA						
Series 03-1991						
Age Date 03-1992						
Age Allowance 0.487%						
COMMENTS						
PROPELLER						
Installation	Shaft exposed	PRD	0.350			
Type	Folding 2 blades	PBW	0.120			
		PIPA	0.0040			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	612.5			687.9		
Time On Time	0.9796			0.9812		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	736.8	555.9	484.6	966.4	692.4	590.1
Time on Time	0.9161	1.2142	1.3929	0.6985	0.9748	1.1439

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

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 18-05-2010		SG 1.0000	
FFM 1.079	FF 1.093	SFFP 0.335	
FAM 0.913	FA 0.922	SAFP 9.488	
LCF from stem on CL / on sheer		5.895 / 6.123	
Maximum beam station from stem		7.310	
RM Measured		96.9kg-m	
RM Default		94.1kg-m	
Limit of positive stability / Stab.Index		112.7° / 108.4	
Freeboard at mast at 3.310		1.024	

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast No	Jumper Struts None			
Taper Hollows No	Jib Furler No			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 13.100	E 5.200	MDT1 0.098	MW 0.158	
IG 11.430	J 3.310	MDL1 0.158	GO 0.183	
ISP 11.430	SFJ	MDT2 0.095	BD	
BAS 1.510	SPL 3.550	MDL2 0.132	MWT	
FSP	TPS	TL 0.970	MCG	



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2017 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.350		
Type Folding 2 blades	PBW 0.120		
Twin Screw No	PIPA 0.0040		
PSA 16.600	PHL 0.110	ST3 0.090	ESL 0.837
PSD 0.025	ST1 0.023	ST4 0.051	
PHD 0.065	ST2 0.075	ST5 0.185	

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COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MANSAL (1)																
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						
HEADSAILS (2)																
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	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	12.00	12.00	12.00	7.00	6.74	69.48		28-05-2014	EG	Unknown						
3	11.43	11.43	11.43	7.14	6.68	67.13	G.Misiunas	30-05-2009		Unknown						
ASYMMETRIC SPINNAKERS (0)																
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	TOJANA
Sail Nr	LTU 2003
Certificate Number	LT2003
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1101.6	901.6	791.1	732.1	708.7	697.3	685.1
52°	713.1	592.1	529.8	504.8	495.1	489.7	482.8
60°	667.1	558.1	510.7	489.5	478.1	471.8	465.8
75°	629.4	533.6	496.8	474.0	453.9	439.7	428.3
90°	629.8	525.4	485.3	466.0	446.7	424.4	394.2
110°	635.8	525.9	484.3	452.9	422.0	405.2	377.9
120°	660.3	540.9	492.2	462.0	430.0	398.4	358.1
135°	745.4	599.8	518.6	483.9	455.4	425.4	365.7
150°	903.9	708.8	590.1	517.3	484.8	458.1	403.1
Run VMG	1043.7	818.4	681.4	589.5	532.2	494.7	442.6

Selected Courses							
Windward / Leeward	1072.7	860.0	736.2	660.8	620.5	596.0	563.9
Circular Random	882.0	706.8	611.6	555.2	519.6	495.3	462.7
Ocean for PCS	1090.7	834.4	689.0	599.4	540.3	498.3	438.2
Non Spinnaker	930.5	741.6	638.1	576.6	537.7	511.6	476.9

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	43.6°	42.3°	41.9°	40.3°	39.2°	38.8°	39.3°
Beat VMG	3.27	3.99	4.55	4.92	5.08	5.16	5.25
52°	5.05	6.08	6.80	7.13	7.27	7.35	7.46
60°	5.40	6.45	7.05	7.35	7.53	7.63	7.73
75°	5.72	6.75	7.25	7.59	7.93	8.19	8.41
90°	5.72	6.85	7.42	7.73	8.06	8.48	9.13
110°	5.66	6.85	7.43	7.95	8.53	8.89	9.53
120°	5.45	6.66	7.31	7.79	8.37	9.04	10.05
135°	4.83	6.00	6.94	7.44	7.91	8.46	9.84
150°	3.98	5.08	6.10	6.96	7.43	7.86	8.93
Run VMG	3.45	4.40	5.28	6.11	6.76	7.28	8.13
Gybe Angles	136.8°	149.5°	148.8°	156.9°	175.0°	180.0°	180.0°