



World Leader in Rating Technology

2017 ORC Club One Design Certificate

Rating Office

Žemaites 6
LT-03117 Vilnius
Lithuania
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Certificate

Number **MELG24**
Issued On **2017-06-16**
ORC Ref **lt00000156**
VPP Ver. **2017 1.00**
Valid until **2017-12-31**

Crew Weight

Declared **375kg**
Default* **393kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	651.0	0.9216
Double H.OSN	637.6	0.9411
Non Spin GPH	674.3	0.8898
Non Spin OSN	654.6	0.9166

Sails Limitations

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

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 56.18**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **7.397**

Stability (Estimated)

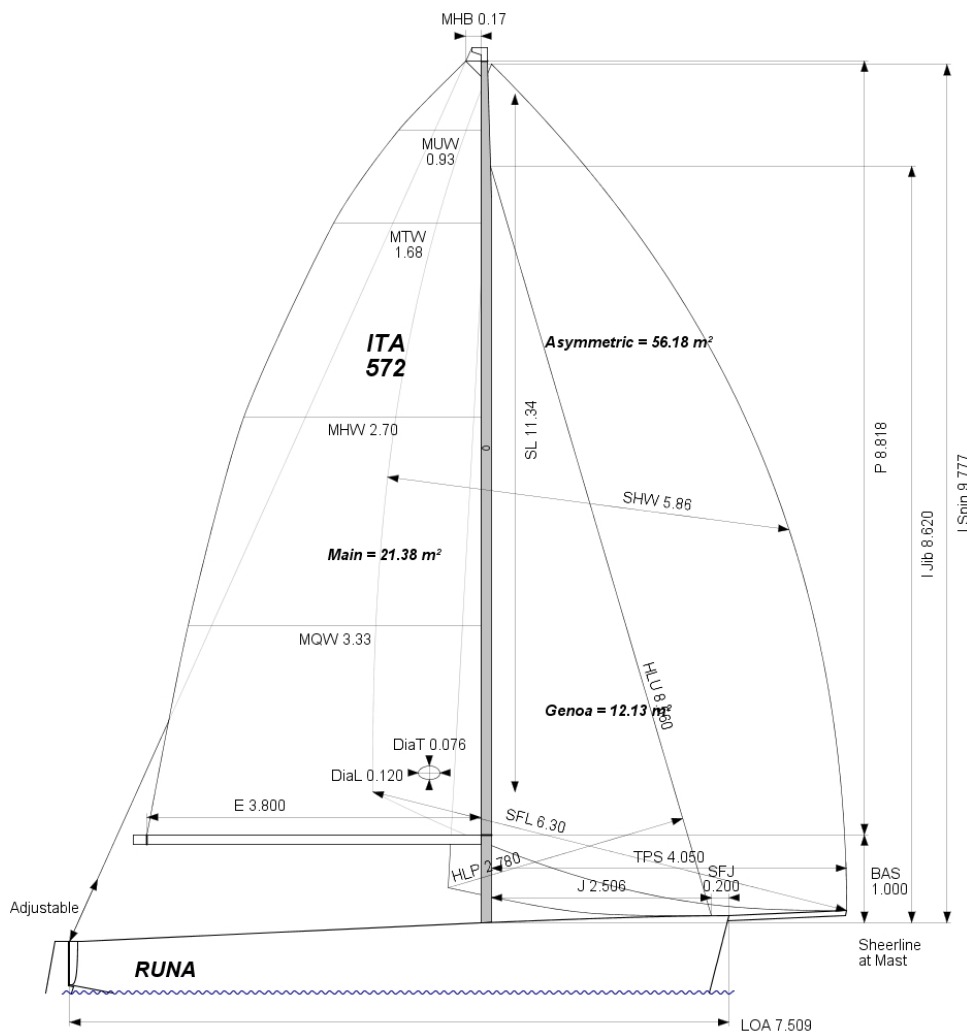
Limit Positive Stab.: **103.2°**
Stability Index: **94.7**

Owner

Simonas Kunickas
Vilnius
Lithuania

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

Signature



BOAT		GPH		HULL		
Name	RUNA			Data File	Runa LTU	
Sail Nr	ITA 572			Offset File	melg24.od	
				Displacement	821kg	
				LOA	7.509m	
				MB	2.490m	
				Draft	1.522m	
CLASS				IMS Division	Sportboat	
Class	MELGES 24 OD			Dynamic All.	0.000%	
Designer	REICHEL/PUGH			Fwd Accom.	No	
Builder	DEVOTI SAILING LTD			Construction	Cored	
Series	12-1992			Fiber Rigging	No	
Age Date	12-1994			Aramid Core	No	
Age Allowance	0.487%			Crew Arm Ex	0.50	
COMMENTS				Carbon Rudder	Yes	
LIFELINE TENSION ACC CLASSRULE				Light Stanchions	No	
PROPELLER				IMSL	7.249m	
Type No Propeller				VCGD	0.050m	
				Sink	8.71kg/mm	
				RL	7.544m	
				VCGM	0.030m	
				WS	10.47m²	
				LSM0	6.753m	
				Displacement/Length ratio	2.6660	
				Water Ballast	0	
				Trim Tab	No	
				CENTERBOARD		
				N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	610.6			699.9		
Time On Time	0.9827			0.9644		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	726.8	559.6	468.8	941.9	707.8	594.5
Time on Time	0.9287	1.2062	1.4398	0.7166	0.9536	1.1355

BOAT	
Name RUNA	Sail Nr ITA572
File Runa LTU	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter VCG directly			
Flotation date 27-01-2016		SG 1.0250	
VCGDe 0.050			
FFM 0.876	FF 0.876	SFFP 0.130	
FAM 0.587	FA 0.587	SAFP 7.370	
LCF from stem on CL / on sheer		4.188 / 4.325	
Maximum beam station from stem		4.470	
RM Measured		25.3kg·m	
RM Default		27.0kg·m	
Limit of positive stability / Stab.Index		103.2° / 94.7	
Freeboard at mast at 2.706		0.799	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	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 8.818	E 3.800	MDT1 0.076	MW 0.114
IG 8.620	J 2.506	MDL1 0.120	GO 0.114
ISP 9.777	SFJ 0.200	MDT2 0.062	BD 0.103
BAS 1.000	SPL	MDL2 0.075	MWT 28.00
FSP 0.000	TPS 4.050	TL 1.578	MCG 3.150




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2017 Measurements Datasheet

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
LIFELINE TENSION ACC CLASSRULE	

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	0.175	0.93	1.68	2.70	3.33	21.38	OD				CLASS RULES &					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.05	0.40	0.76	1.42	2.09	2.78	8.56	111%	12.14			OD				CLASS RULES
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A	11.59	11.08	11.34	5.86	6.30	56.18	asym	OD				CLASS RULES & MEAS				



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2017

ORC Club Certificate Appendix

BOAT	
Name	RUNA
Certificate Number	MELG24
Sail Nr	ITA 572
Issued On	2017-06-16

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1115.9	912.1	808.9	768.8	753.5	746.2	737.6
52°	719.5	603.7	559.2	535.5	522.9	515.6	499.2
60°	671.0	580.6	537.7	504.3	489.8	481.3	461.6
75°	632.1	563.4	515.2	463.4	439.9	427.5	409.4
90°	618.7	544.1	505.5	460.8	407.0	381.3	360.6
110°	611.5	535.7	467.5	431.3	399.2	372.7	308.5
120°	627.9	545.9	480.2	415.0	380.7	354.9	292.7
135°	707.7	582.0	520.2	460.4	401.2	346.2	257.5
150°	840.9	665.8	579.1	525.7	471.0	415.9	295.6
Run VMG	971.0	768.8	669.2	607.0	543.9	480.3	341.4

Selected Courses							
Windward / Leeward	1043.4	840.4	739.1	687.9	648.7	613.3	539.5
Circular Random	871.7	703.6	611.0	553.2	512.7	480.8	428.5
Ocean for PCS	1072.8	827.1	685.9	595.0	529.8	478.2	396.5
Non Spinnaker	947.2	758.3	654.0	590.2	547.4	515.9	468.2

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	44.2°	43.2°	40.7°	38.7°	37.9°	37.6°	37.7°
Beat VMG	3.23	3.95	4.45	4.68	4.78	4.82	4.88
52°	5.00	5.96	6.44	6.72	6.88	6.98	7.21
60°	5.36	6.20	6.70	7.14	7.35	7.48	7.80
75°	5.70	6.39	6.99	7.77	8.18	8.42	8.79
90°	5.82	6.62	7.12	7.81	8.85	9.44	9.98
110°	5.89	6.72	7.70	8.35	9.02	9.66	11.67
120°	5.73	6.59	7.50	8.67	9.46	10.14	12.30
135°	5.09	6.19	6.92	7.82	8.97	10.40	13.98
150°	4.28	5.41	6.22	6.85	7.64	8.66	12.18
Run VMG	3.71	4.68	5.38	5.93	6.62	7.50	10.55
Gybe Angles	143.4°	147.3°	151.1°	148.3°	145.0°	143.8°	140.0°