



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

Žemaites 6
LT-03117 Vilnius
Lithuania
+370 650 28392



Certificate

Number **LT2572**
Issued On **2018-06-22**
ORC Ref **lt00000646**
VPP Ver. **2018 0.02b**
Valid until **2018-12-31**

Crew Weight

Declared **345kg**
Default* **430kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **676,6 0,8868**
Non Spin OSN **654,4 0,9169**

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 = **7,575**

Stability (Estimated)

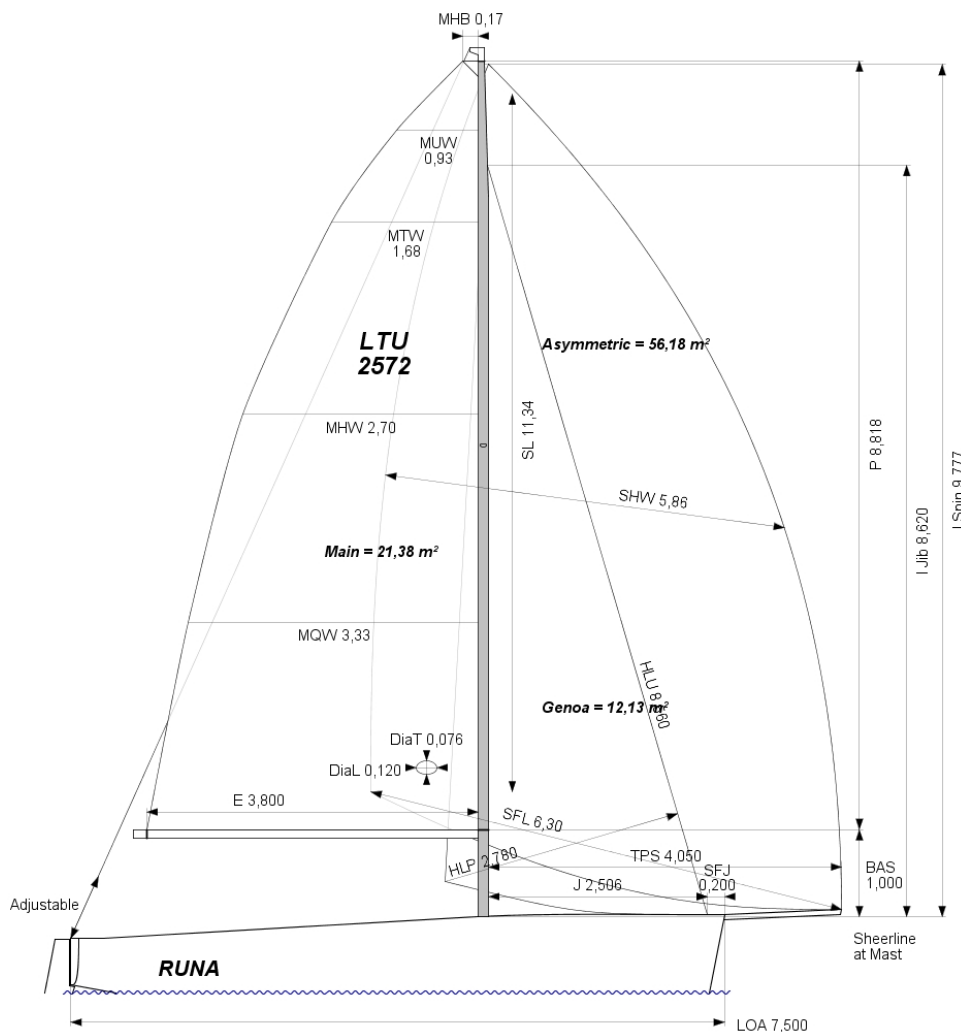
Limit Positive Stab.: **120,8°**
Stability Index: **112,5**

Owner

Simonas Kunickas
Vilnius
Lithuania

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

Signature



BOAT Name RUNA Sail Nr LTU 2572		GPH 628,2		HULL Data File Runa LTU2572 LOA 7,500m Offset File MELGES24a.OFF MB 2,442m Displacement 839kg Draft 1,562m		
CLASS Class MELGES 24 Designer Reichel/Pugh Builder Devoti Sailing LTD Series 12-1992 Age Date 12-1994 Age Allowance 0,487%		IMS Division Sportboat Dynamic All. 0,000% Fwd Accom. No Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0,50 Carbon Rudder Yes Light Stanchions No			IMSL 7,330m VCGD -0,300m Sink 8,73kg/mm RL 7,819m VCGM -0,310m WS 10,47m² LSM0 7,190m Displacement/Length ratio 2,2572	
COMMENTS		Water Ballast 0 Trim Tab No			Water Ballast 0 Trim Tab No	
PROPELLER Type No Propeller		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	609,2			692,9		
Time On Time	0,9849			0,9742		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	721,1	559,6	477,2	927,3	699,0	596,1
Time on Time	0,9361	1,2063	1,4144	0,7279	0,9656	1,1324

BOAT	
Name RUNA	Sail Nr LTU 2572
File Runa LTU2572	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 27-01-2016		SG 1,0010	
FFM 0,889	FF 0,895	SFFP 0,130	
FAM 0,601	FA 0,602	SAFP 7,390	
LCF from stem on CL / on sheer		4,229 / 4,376	
Maximum beam station from stem		4,790	
RM Measured		27,3kg·m	
RM Default		26,5kg·m	
Limit of positive stability / Stab.Index		120,8° / 112,5	
Freeboard at mast at 2,706		0,871	

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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2018 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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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	0,175	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				

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a4	Anchor	5,0	2,00	
Id	Item	Maker	Model	
1	Engine	MIN 12kg	OUTBOARD	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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2018

ORC Club Certificate Appendix

BOAT	
Name	RUNA
Certificate Number	LT2572
Sail Nr	LTU 2572
Issued On	2018-06-22

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1078,1	877,6	781,4	755,1	747,1	742,8	742,4
52°	705,8	596,3	556,4	538,8	530,4	526,3	513,1
60°	666,5	579,5	539,1	512,5	501,3	495,6	479,3
75°	638,4	567,9	522,6	478,2	456,9	446,1	430,1
90°	626,6	548,8	515,1	473,8	427,6	402,4	382,2
110°	617,5	537,4	474,4	439,5	410,5	385,1	332,0
120°	633,7	547,3	481,6	422,0	387,9	362,3	309,2
135°	714,7	583,1	520,8	460,4	400,7	348,9	266,4
150°	848,4	670,2	580,4	525,9	470,0	415,7	306,5
Run VMG	979,6	773,9	670,3	607,2	542,8	480,0	354,0

Selected Courses							
Windward / Leeward	1028,9	825,8	725,8	681,2	644,9	611,4	548,2
Circular Random	867,0	700,9	610,5	555,4	517,6	488,6	442,3
Ocean for PCS	1061,5	820,2	683,1	596,3	535,2	487,6	412,8
Non Spinnaker	949,2	759,6	655,9	593,6	552,6	523,0	478,6

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	43,0°	41,6°	38,4°	37,0°	36,8°	36,8°	37,6°
Beat VMG	3,34	4,10	4,61	4,77	4,82	4,85	4,85
52°	5,10	6,04	6,47	6,68	6,79	6,84	7,02
60°	5,40	6,21	6,68	7,02	7,18	7,26	7,51
75°	5,64	6,34	6,89	7,53	7,88	8,07	8,37
90°	5,75	6,56	6,99	7,60	8,42	8,95	9,42
110°	5,83	6,70	7,59	8,19	8,77	9,35	10,84
120°	5,68	6,58	7,47	8,53	9,28	9,94	11,64
135°	5,04	6,17	6,91	7,82	8,98	10,32	13,51
150°	4,24	5,37	6,20	6,85	7,66	8,66	11,74
Run VMG	3,67	4,65	5,37	5,93	6,63	7,50	10,17
Gybe Angles	143,5°	147,1°	150,3°	148,2°	144,8°	144,3°	140,0°