



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST242**
Issued On **5/30/2019**
ORC Ref **EST0000604**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 313kg
Maximum **420kg**
Minimum* **315kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	726.4	0.8260
Double H.OSN	708.8	0.8465
Non Spin GPH	741.0	0.8097
Non Spin OSN	716.4	0.8375

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 32.08**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.451

Stability (Estimated)

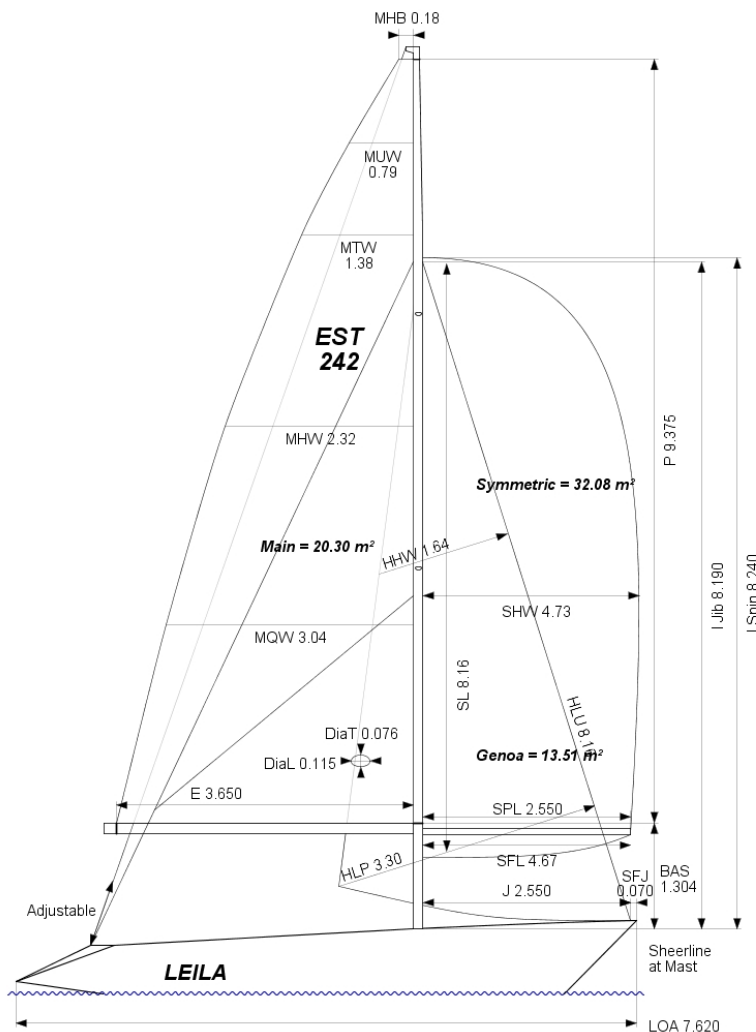
Limit Positive Stab.: **114.8°**
Stability Index: **107.1**

Owner

**Krihvel OÜ
Raua 20, Tallinn
Estonia
ESS Kalev JK**

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

Signature



BOAT		GPH		HULL		
Name	LEILA		716.1	Data File	Est0242	
Sail Nr	EST 242			Offset File	Polari17.off	
				Displacement	1,692kg	
				LOA	7.620m	
				MB	2.692m	
				Draft	1.727m	
				IMS Division	Performance	
				Dynamic All.	0.013%	
				Fwd Accom.	Yes	
				Construction	Solid	
				Fiber Rigging	No	
				Aramid Core	No	
				Carbon Rudder	No	
				Light Stanchions	No	
				IMSL	6.095m	
				VCGD	-0.063m	
				Sink	8.37kg/mm	
				RL	6.805m	
				VCGM	-0.061m	
				WS	10.84m²	
				LSM0	5.758m	
				Displacement/Length ratio	8.8631	
				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
				CENTERBOARD		
				N/A		
COMMENTS						
Yacht weight declared by the owner 27.06.14 (incl. battery 37kg and el. engine 6kg)						
PROPELLER						
Type No Propeller						
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	695.8			767.1		
Time on Time	0.8624			0.8800		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	807.7	638.4	574.5	1033.8	769.1	679.5
Time on Time	0.8357	1.0574	1.1750	0.6529	0.8777	0.9934

BOAT	
Name LEILA	Sail Nr EST 242
File Est0242	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 27/06/2014		SG	
FFM	FF	0.882	SFFP 0.394
FAM	FA	0.593	SAFP 6.402
LCF from stem on CL / on sheer		4.053 / 4.260	
Maximum beam station from stem		4.141	
RM Measured		31.2kg·m	
RM Default		30.3kg·m	
Limit of positive stability / Stab.Index		114.8° / 107.1	
Freeboard at mast at 2.620		0.791	



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2019
Measurements
Datasheet

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 2			
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 9.375	E 3.650	MDT1 0.076	MW 0.115	
IG 8.190	J 2.550	MDL1 0.115	GO 0.118	
ISP 8.240	SFJ 0.070	MDT2 0.068	BD	
BAS 1.304	SPL 2.550	MDL2 0.073	MWT 40.00	
FSP	TPS	TL 2.120	MCG 3.180	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate	
Number EST242	
ORC Ref EST00000604	
Issued On 5/30/2019	
VPP Ver. 2019 1.01	
Valid until 12/31/2019	

COMMENTS	
Yacht weight declared by the owner 27.06.14 (incl. battery 37kg and el. engine 6kg)	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.18	0.79	1.38	2.32	3.04	20.30	Sisil	03/02/2019		Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.05	0.44	0.84	1.64	2.47	3.30	8.16	129%	13.51			EST 2	08/05/2010		Unknown	Unknow
4	0.05	0.41	0.79	1.59	2.42	3.30	8.13	129%	13.18			Sisil	05/06/2018	NS	Unknown	Unknow
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	8.16	8.16	8.16	4.73	4.67	32.09	EST 7	29/05/2019		Unknown						
1	8.23	8.23	8.23	4.56	4.54	31.25	EST 2	08/05/2010		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2009

ORC Club Certificate Appendix

BOAT	
Name LEILA	Certificate Number EST242
Sail Nr EST 242	Issued On 5/30/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1142.8	961.9	859.6	809.5	794.4	789.1	793.8
52°	760.7	654.2	614.9	594.3	582.6	577.3	574.5
60°	725.3	635.2	603.1	582.0	566.8	558.6	553.0
75°	702.5	624.7	593.2	569.7	548.6	533.4	520.2
90°	707.8	615.1	578.0	549.2	529.6	519.6	494.0
110°	716.7	618.0	578.4	545.1	516.6	492.7	462.8
120°	745.9	631.3	587.6	554.9	524.7	498.7	451.6
135°	832.0	684.2	612.4	577.9	546.9	519.1	470.6
150°	979.1	780.0	663.3	607.0	575.3	546.1	496.5
Run VMG	1130.6	899.9	760.6	665.1	610.9	579.1	525.0
Selected Courses							
Windward / Leeward	1136.7	930.9	810.1	737.3	702.6	684.1	659.4
Circular Random	972.9	791.8	695.7	640.4	606.6	584.6	556.5
Coastal / Long Distance	1136.1	877.8	738.8	659.1	618.5	587.0	531.5
Non Spinnaker	1016.1	822.5	719.2	659.4	622.9	599.3	569.6

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	41.2°	41.0°	38.6°	36.6°	35.9°	35.9°	36.8°
Beat VMG	3.15	3.74	4.19	4.45	4.53	4.56	4.54
52°	4.73	5.50	5.85	6.06	6.18	6.24	6.27
60°	4.96	5.67	5.97	6.19	6.35	6.44	6.51
75°	5.12	5.76	6.07	6.32	6.56	6.75	6.92
90°	5.09	5.85	6.23	6.55	6.80	6.93	7.29
110°	5.02	5.83	6.22	6.60	6.97	7.31	7.78
120°	4.83	5.70	6.13	6.49	6.86	7.22	7.97
135°	4.33	5.26	5.88	6.23	6.58	6.93	7.65
150°	3.68	4.62	5.43	5.93	6.26	6.59	7.25
Run VMG	3.18	4.00	4.73	5.41	5.89	6.22	6.86
Gybe Angles	148.4°	152.4°	155.7°	180.0°	180.0°	180.0°	180.0°