



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **Est554**
Issued On **6/10/2019**
ORC Ref **EST0000647**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 412kg
Maximum **475kg**
Minimum* **356kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	756.8	0.7928
Double H.OSN	734.8	0.8166
Non Spin GPH	768.8	0.7804
Non Spin OSN	742.4	0.8082

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 32.85**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.543

Stability (Estimated)

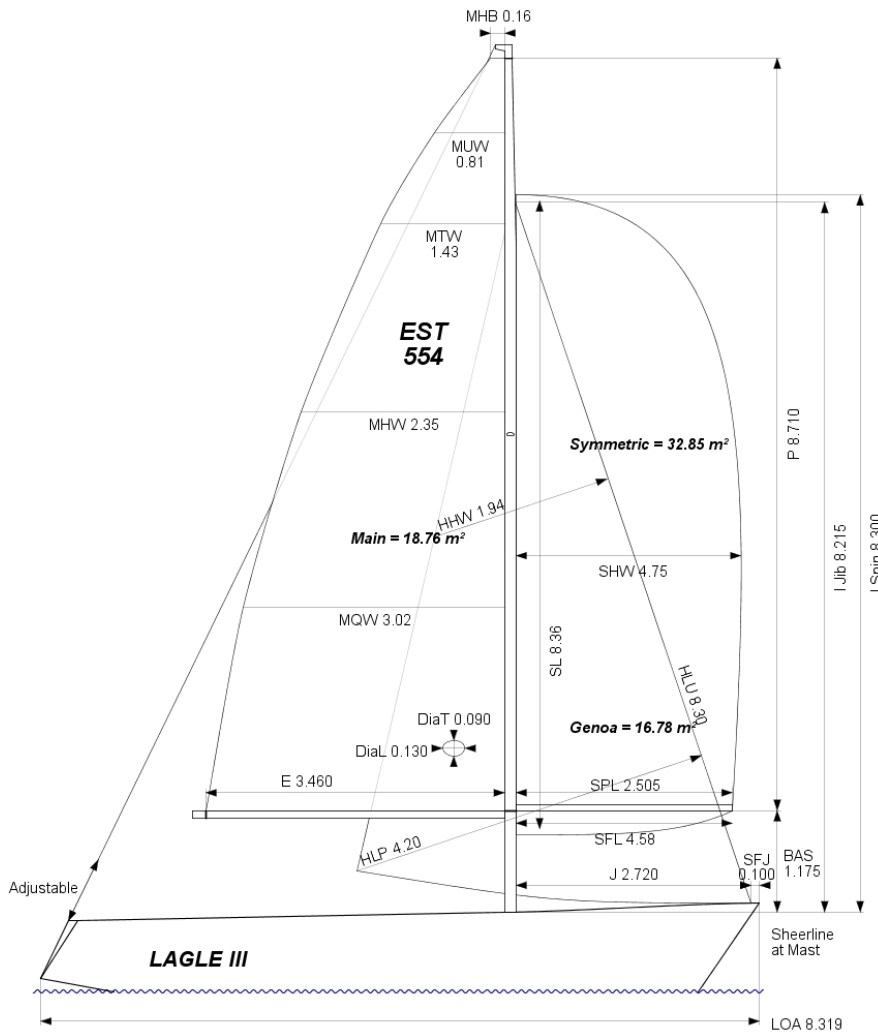
Limit Positive Stab.: **115.2°**
Stability Index: **110.7**

Owner

**Ülari Velviste
Õismäe tee 14-45
Tallinn
SMS**

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

Signature



BOAT		GPH		HULL		
Name	LAGLE III			Data File	Est0554	
Sail Nr	EST 554			Offset File	L5280.BOF	
				Displacement	2,269kg	
				LOA	8.319m	
				MB	2.794m	
				Draft	1.412m	
CLASS				IMS Division	Cruiser/Racer	
Class	Finn Express 83			Dynamic All.	0.359%	
Designer	Eivind Still			Fwd Accom.	Yes	
Builder	Nycra			Construction	Solid	
Series	01/1981			Fiber Rigging	No	
Age Date	01/1981			Aramid Core	No	
Age Allowance	0.487%			Carbon Rudder	No	
				Light Stanchions	No	
				IMSL	7.107m	
				VCGD	-0.085m	
				Sink	10.15kg/mm	
				RL	5.978m	
				VCGM	0.022m	
				WS	14.13m²	
				LSM0	6.974m	
				Displacement/Length ratio	6.6894	
				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
COMMENTS				CENTERBOARD		
				N/A		
PROPELLER						
Installation	Shaft exposed	PRD	0.380			
Type	Folding 2 blades	PBW	0.095			
		PIPA	0.0014			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	722.8			804.4		
Time on Time	0.8301			0.8391		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	870.9	657.3	576.3	1130.1	811.9	688.8
Time on Time	0.7751	1.0270	1.1713	0.5973	0.8314	0.9799

BOAT	
Name LAGLE III	Sail Nr EST 554
File Est0554	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 21/06/2018		SG	
FFM	FF	1.012	SFFP 0.506
FAM	FA	0.819	SAFP 7.893
LCF from stem on CL / on sheer		4.485 / 4.677	
Maximum beam station from stem		4.666	
RM Measured		36.5kg·m	
RM Default		35.5kg·m	
Limit of positive stability / Stab.Index		115.2° / 110.7	
Freeboard at mast at 2.820		0.921	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 1		Runners 0
Inner Stay None Fitted	Jumper Struts None		Jib Furler No
Carbon Mast No	Main Furler No		Without Backstay No
Taper Hollows No	Articulated Bowsprit No		
Fiber Rigging No			
Lenticular Rigging No			
P 8.710	E 3.460	MDT1 0.090	MW
IG 8.215	J 2.720	MDL1 0.130	GO
ISP 8.300	SFJ 0.100	MDT2 0.082	BD 0.085
BAS 1.175	SPL 2.505	MDL2 0.087	MWT 45.50
FSP 0.000	TPS	TL 2.210	MCG 3.679

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Shaft exposed	PRD	0.380
Type	Folding 2 blades	PBW	0.095
Twin Screw	No	PIPA	0.0014
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.16	0.81	1.43	2.35	3.02	18.77	EST5	21/06/2018		Kevlar						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
U	0.06	0.48	0.94	1.94	3.05	4.20	8.30	154%	16.78			EST5	20/06/2018		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
V II	8.36	8.36	8.36	4.75	4.58	32.86	EST5	20/06/2018		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	LAGLE III	Certificate Number	Est554
Sail Nr	EST 554	Issued On	6/10/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1294.0	1073.9	946.6	863.7	820.3	805.8	806.3
52°	835.3	699.2	627.1	595.0	578.0	570.1	566.5
60°	785.2	659.5	603.6	579.5	563.5	552.9	546.4
75°	750.9	635.7	588.1	565.7	547.9	531.9	512.4
90°	758.9	632.7	577.7	550.6	528.9	513.5	489.7
110°	766.7	631.5	576.3	546.4	518.7	493.4	454.7
120°	794.9	650.7	585.0	554.4	527.2	499.9	452.6
135°	896.6	721.4	617.7	574.2	546.9	520.3	470.8
150°	1045.0	820.8	690.1	608.6	571.7	546.2	497.1
Run VMG	1206.7	945.4	793.1	686.4	615.7	577.1	527.6
Selected Courses							
Windward / Leeward	1250.4	1009.7	869.9	775.0	718.0	691.4	666.9
Circular Random	1041.4	835.5	723.3	656.9	615.8	589.1	556.8
Coastal / Long Distance	1246.0	945.9	780.6	678.5	624.8	588.4	530.8
Non Spinnaker	1080.7	863.6	744.7	674.0	629.9	601.4	568.0

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	44.6°	43.4°	43.1°	41.2°	39.8°	39.4°	39.8°
Beat VMG	2.78	3.35	3.80	4.17	4.39	4.47	4.46
52°	4.31	5.15	5.74	6.05	6.23	6.32	6.35
60°	4.58	5.46	5.96	6.21	6.39	6.51	6.59
75°	4.79	5.66	6.12	6.36	6.57	6.77	7.03
90°	4.74	5.69	6.23	6.54	6.81	7.01	7.35
110°	4.70	5.70	6.25	6.59	6.94	7.30	7.92
120°	4.53	5.53	6.15	6.49	6.83	7.20	7.95
135°	4.01	4.99	5.83	6.27	6.58	6.92	7.65
150°	3.44	4.39	5.22	5.92	6.30	6.59	7.24
Run VMG	2.98	3.81	4.54	5.25	5.85	6.24	6.82
Gybe Angles	148.8°	153.2°	154.8°	166.3°	180.0°	180.0°	180.0°