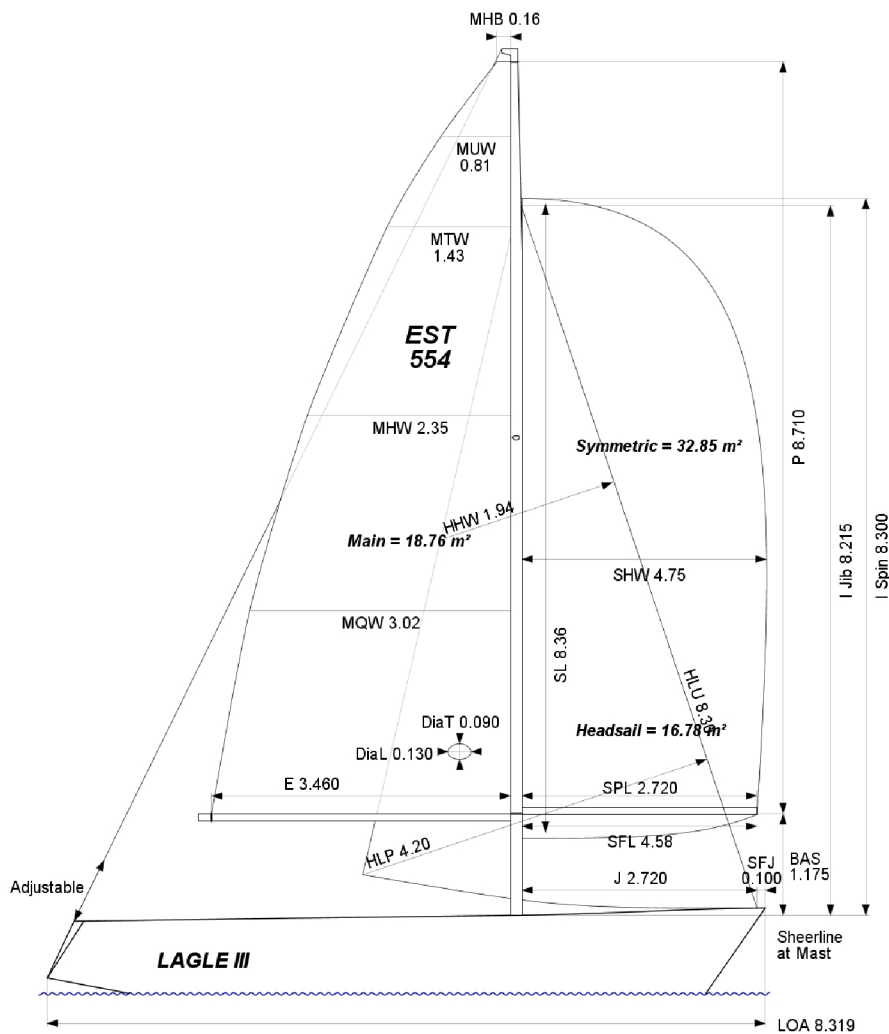




ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office
Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **061/20**
Issued On **11/06/2020**
ORC Ref **03880000KHV**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 411kg
Maximum **505kg**
Minimum* **379kg**
*when applied by the NoR and SI
Non Manual Pwr

Special Scoring

ToD ToT
Non Spin GPH **768.6 0.7806**
Non Spin OSN **742.5 0.8081**

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration

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

Class Division Length

CDL = 6.496

Stability (Estimated)

Limit Positive Stab.: **110.4°**
Stability Index: **105.9**

BOAT		GPH	HULL	
Name	LAGLE III	746.0	Data File	EST554 LOA 8.319m
Sail Nr	EST 554		Offset File	L5280.BOF MB 2.794m
			Displacement	2,267kg Draft 1.415m
CLASS Class Finn Express 83 Designer Eivind Still Builder Nycra Series 01/1981 Age Date 01/1981 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.356% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		
		IMSL 7.048m VCGD 0.000m Sink 10.07kg/mm RL 5.949m VCGM 0.106m WS 14.05m²		
		LSM0 6.962m Displacement/Length ratio		
		Water Ballast Trim Tab No BLR Index 0.0000		
		CENTERBOARD N/A		
COMMENTS				
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	722.9			805.4		
Time on Time	0.8299			0.8381		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	870.2	657.1	577.1	1129.7	812.6	691.1
Time on Time	0.7757	1.0273	1.1697	0.5975	0.8307	0.9767

BOAT Name LAGLE III Sail Nr EST 554 File EST554 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 11/06/2020 SG 1.0250 VCGDe 0.000	
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 0.984 FF 0.984 SFFP 0.506 FAM 0.844 FA 0.844 SAFB 7.893 LCF from stem on CL / on sheer 4.434 / 4.617 Maximum beam station from stem 4.666 RM Measured 32.4kg·m RM Default 35.1kg·m Limit of positive stability / Stab.Index 110.4° / 105.9 Freeboard at mast at 2.820 0.910	
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	
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		21/06/2018		Kevlar						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
U	0.06	0.48	0.94	1.94	3.05	4.20	8.30	154%	16.78		No		20/06/2018		Dacron	
1	0.07	0.49	0.94	1.95	3.06	4.20	8.26	154%	16.75		No		10/06/2020	Reval Sails	Carbon	
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		20/06/2018		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet



EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	LAGLE III	Certificate Number	061/20
Sail Nr	EST 554	Issued On	11/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1296.3	1076.4	948.5	865.7	824.2	811.0	813.0
52°	835.7	699.5	626.4	595.1	578.3	571.2	568.2
60°	785.0	659.0	602.8	579.1	563.2	553.3	547.7
75°	750.0	634.9	587.6	564.5	546.7	531.0	513.8
90°	757.6	631.9	576.8	549.5	528.2	514.2	489.3
110°	765.5	630.6	575.6	545.0	517.0	492.2	454.8
120°	793.6	649.4	584.4	553.2	525.5	498.5	451.7
135°	893.0	719.9	616.8	573.4	545.5	518.8	469.8
150°	1041.9	819.0	688.8	607.8	570.9	544.8	495.8
Run VMG	1203.1	943.4	791.6	685.0	614.9	576.3	526.1
Selected Courses							
Windward / Leeward	1249.7	1009.9	870.1	775.4	719.5	693.6	669.6
Circular Random	1040.7	835.0	723.1	657.0	616.1	589.8	558.1
Coastal / Long Distance	1245.1	945.9	780.5	678.4	625.1	589.0	531.2
Non Spinnaker	1079.9	863.1	744.5	674.0	630.2	601.9	569.2

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	44.3°	43.5°	43.5°	41.3°	39.9°	39.6°	40.1°
Beat VMG	2.78	3.34	3.80	4.16	4.37	4.44	4.43
52°	4.31	5.15	5.75	6.05	6.22	6.30	6.34
60°	4.59	5.46	5.97	6.22	6.39	6.51	6.57
75°	4.80	5.67	6.13	6.38	6.58	6.78	7.01
90°	4.75	5.70	6.24	6.55	6.82	7.00	7.36
110°	4.70	5.71	6.25	6.61	6.96	7.31	7.92
120°	4.54	5.54	6.16	6.51	6.85	7.22	7.97
135°	4.03	5.00	5.84	6.28	6.60	6.94	7.66
150°	3.46	4.40	5.23	5.92	6.31	6.61	7.26
Run VMG	2.99	3.82	4.55	5.26	5.85	6.25	6.84
Gybe Angles	149.0°	153.0°	155.0°	166.0°	180.0°	180.0°	180.0°