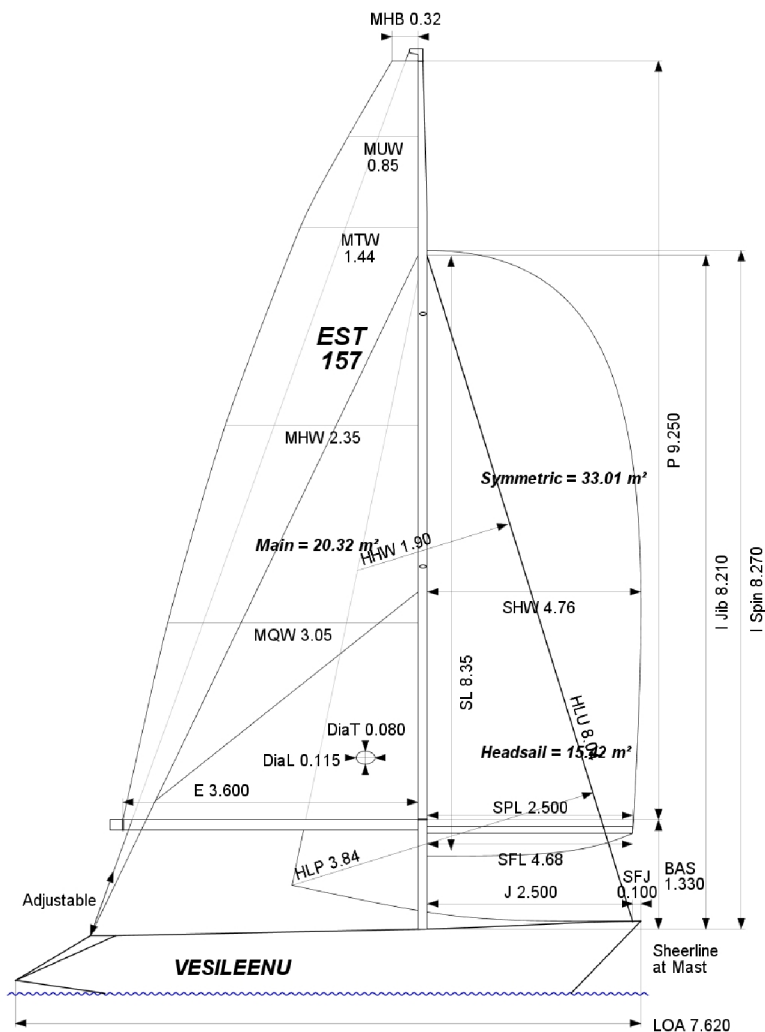




BOAT		GPH	HULL	
Name	VESILEENU	713.2	Data File	EST157
Sail Nr	EST 157		LOA	7.620m
CLASS			Offset File	Polari17.off
Class	POLARIS		Displacement	1,675kg
Designer	SET		MB	2.692m
Builder	SET		Draft	1.726m
Series	06/1984		IMS Division	Performance
Age Date	01/1991		Plan Review	Dynamic All. 0.007%
Age Allowance	0.487%		Fiber Rigging	Construction Solid
COMMENTS			Crew Arm Ex	Aramid Core No
Jahi kaal deklareeritud 02.06.2020			Light Stanchions	Carbon Rudder No
PROPELLER			IMSL	6.091m
Type No Propeller			VCGD	-0.100m
			Sink	8.33kg/mm
			RL	6.697m
			VCGM	-0.096m
			WS	10.78m²
			LSM0	5.766m
			Displacement/Length ratio	8.7376
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			CENTERBOARD	
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	694.6			767.5		
Time on Time	0.8638			0.8795		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	799.5	637.1	577.4	1023.2	768.1	685.2
Time on Time	0.8443	1.0595	1.1691	0.6597	0.8788	0.9851

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2020
ORC Club
Certificate

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

ESTONIAN
YACHTING
UNION

Certificate
Number 097/20
Issued On 03/07/2020
ORC Ref 03880000LU5
VPP Ver. 2020 1.02
Valid until 31/12/2020

Crew Weight
Default 314kg
Maximum 370kg
Minimum* 278kg
*when applied by the NoR and SI
Non Manual Pwr No

Special Scoring
ToD ToT
Non Spin GPH 734.3 0.8171
Non Spin OSN 712.9 0.8417

Sails Limitations
Headsails 5 Spinnakers 4

Spinnaker configuration
Symmetric: Yes 33.01
Asymmetric: No
Flying H/S: No
Spin. Pole: Yes

Class Division Length
CDL = 6.390

Stability (Estimated)
Limit Positive Stab.: 117.1°
Stability Index: 109.4

BOAT Name VESILEENU Sail Nr EST 157 File EST157 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 11/06/2020 SG 1.0244 VCGDe -0.100	
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 2 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 0.871 FF 0.871 SFFP 0.394 FAM 0.603 FA 0.603 SAFF 6.402 LCF from stem on CL / on sheer 4.028 / 4.234 Maximum beam station from stem 4.141 RM Measured 31.7kg·m RM Default 30.3kg·m Limit of positive stability / Stab.Index 117.1° / 109.4 Freeboard at mast at 2.600 0.788	
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller	
COMMENTS Jahi kaal deklareeritud 02.06.2020		MOVABLE BALLAST N/A	
		CENTERBOARD N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0.32	0.85	1.44	2.35	3.05	20.32		03/07/2019	North sails	Unknown						
2	0.14	0.71	1.28	2.25	2.99	19.41				Unknown						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.11	0.51	0.97	1.90	2.84	3.84	8.04	154%	15.42		No		03/07/2019	North Sails	Unknow	G1
3	0.05	0.45	0.88	1.81	2.82	3.83	8.15	153%	15.21		No				Unknow	
4	0.07	0.38	0.71	1.53	2.29	3.22	7.95	129%	12.32		No		03/07/2019	North Sails	Unknow	G2
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	8.35	8.35	8.35	4.76	4.68	33.02		18/01/2018	North Sails	Unknown	S-2					
2	8.35	8.35	8.35	4.75	4.58	32.82				Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


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ORC Club Certificate Appendix

BOAT			
Name	VESILEENU	Certificate Number	097/20
Sail Nr	EST 157	Issued On	03/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1122.6	945.4	850.3	816.0	805.5	802.3	809.6
52°	745.4	647.3	611.0	593.6	585.8	581.7	581.0
60°	709.6	629.8	599.3	580.1	568.4	562.4	558.5
75°	687.2	618.5	588.9	565.3	546.4	534.2	524.9
90°	694.3	615.3	578.1	550.4	533.8	518.4	495.4
110°	714.6	616.6	576.9	543.6	515.6	492.7	466.2
120°	743.2	629.7	586.0	552.2	522.2	496.3	450.3
135°	828.7	681.5	610.3	575.5	544.0	516.2	466.8
150°	976.2	777.6	661.0	605.0	572.9	543.2	493.5
Run VMG	1127.3	897.4	758.0	662.8	609.1	577.1	522.5
Selected Courses							
Windward / Leeward	1124.9	921.4	804.2	739.4	707.3	689.7	666.0
Circular Random	964.0	786.5	693.1	639.9	607.7	587.0	560.7
Coastal / Long Distance	1125.1	869.7	734.0	659.8	621.0	589.1	533.8
Non Spinnaker	1001.1	812.8	713.0	655.8	621.1	598.7	570.8

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	41.3°	40.5°	38.3°	37.1°	36.8°	36.8°	37.5°
Beat VMG	3.21	3.81	4.23	4.41	4.47	4.49	4.45
52°	4.83	5.56	5.89	6.06	6.14	6.19	6.20
60°	5.07	5.72	6.01	6.21	6.33	6.40	6.45
75°	5.24	5.82	6.11	6.37	6.59	6.74	6.86
90°	5.18	5.85	6.23	6.54	6.74	6.95	7.27
110°	5.04	5.84	6.24	6.62	6.98	7.31	7.72
120°	4.84	5.72	6.14	6.52	6.89	7.25	8.00
135°	4.34	5.28	5.90	6.25	6.62	6.97	7.71
150°	3.69	4.63	5.45	5.95	6.28	6.63	7.29
Run VMG	3.19	4.01	4.75	5.43	5.91	6.24	6.89
Gybe Angles	148.0°	152.5°	155.5°	180.0°	180.0°	180.0°	180.0°