



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 **021/20**
Issued On **05/06/2020**
ORC Ref **03880000JWP**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 647kg
Maximum **720kg**
Minimum* **540kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **675.7 0.8880**
Non Spin OSN **653.1 0.9188**

Sails Limitations

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

Spinnaker configuration

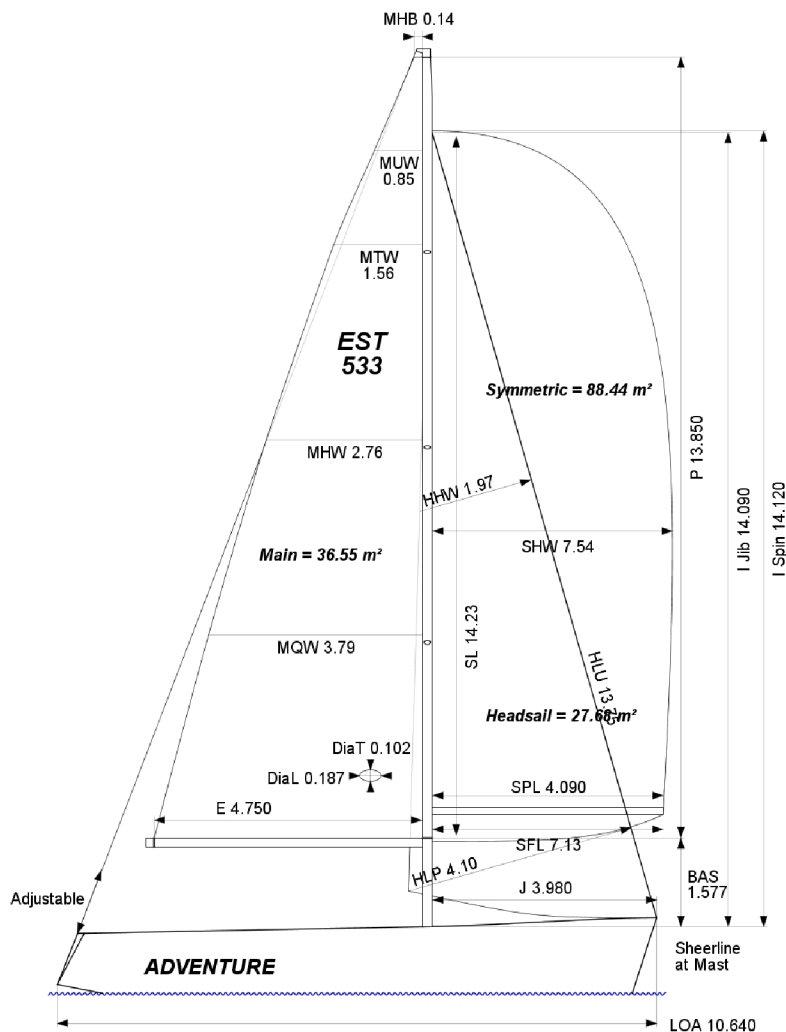
Symmetric: **Yes 88.44**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.968

Stability (Measured)

Limit Positive Stab.: **112.8°**
Stability Index: **115.1**



BOAT		GPH	HULL			
Name	ADVENTURE	638.8	Data File	EST533	LOA	10.640m
Sail Nr	EST 533		Offset File	F196.BOF	MB	3.458m
			Displacement	5,755kg	Draft	2.231m
CLASS			IMS Division	Cruiser/Racer	Dynamic All.	0.227%
			Plan Review		Construction	Solid
			Fiber Rigging	No	Aramid Core	No
			Crew Arm Ex		Carbon Rudder	No
					Light Stanchions	
			IMSL	9.623m	VCGD	0.144m
			RL	8.325m	VCGM	0.124m
			WS	25.41m²		
			LSM0	9.578m	Displacement/Length ratio	
COMMENTS			Water Ballast		Trim Tab	No
			BLR Index	0.0000		
PROPELLER			CENTERBOARD			
			N/A			
Installation	Strut	PRD	0.410			
Type	Folding 2 blades	PIPA	0.0027			

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	619.0			688.3		
Time on Time	0.9693			0.9806		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	737.4	564.5	500.9	951.8	693.8	595.4
Time on Time	0.9154	1.1957	1.3476	0.7092	0.9729	1.1336

BOAT Name ADVENTURE Sail Nr EST 533 File EST533 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 21/06/2010 SG 1.0022 FFM 1.325 FF 1.339 SFFP 0.367 FAM 1.044 FA 1.047 SAFF 10.162 W1 64.0 PD1 422.8 WD 11.180 W2 64.0 PD2 428.2 GSA 1.0 W3 64.0 PD3 426.8 RSA 1.0 W4 64.0 PD4 430.8 PLM 9000.0 LCF from stem on CL / on sheer 5.896 / 6.120 Maximum beam station from stem 6.980 RM Measured 131.9kg·m RM Default 137.7kg·m Limit of positive stability / Stab.Index 112.8° / 115.1 Freeboard at mast at 3.980 1.188		 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet
RIG Forestay Tension Aft Spreaders 3 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 P 13.850 E 4.750 MDT1 0.102 MW 0.187 IG 14.090 J 3.980 MDL1 0.187 GO 0.206 ISP 14.120 SFJ 0.000 MDT2 0.102 BD BAS 1.577 SPL 4.090 MDL2 0.150 MWT 165.00 FSD 0.034 TPS TL 0.720 MCG 5.130		Certificate Number 021/20 ORC Ref 03880000JWP Issued On 05/06/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020  ESTONIAN YACHTING UNION		
MIZZEN RIG AND SAILS N/A			PROPELLER Installation Strut PRD 0.410 Type Folding 2 blades PBW Twin Screw No PIPA 0.0027 ST1 0.042 ST3 ST5 0.280 ST2 ST4 0.090 EDL 2.480	
COMMENTS Boat weight 5755			MOVABLE BALLAST N/A	
COMMENTS Boat weight 5755		CENTERBOARD N/A		

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.14	0.85	1.56	2.76	3.79	36.55		08/07/2018		Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.09	0.52	0.99	1.97	2.99	4.10	13.75	103%	27.68		No		08/07/2018		Unknown	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	14.23	14.23	14.23	7.54	7.13	88.44		08/07/2018		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY						MEASUREMENT INVENTORY					
Measurer Date Comment Internal Ballast total = 0.0						Id Item Weight Distance VCG Description					
Id Item Weight Distance VCG Description											
SsS Tools 22.0 2.25 0.00 Sailer-Service											
Id Item Weight Description											

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ORC Club Certificate Appendix

BOAT			
Name	ADVENTURE	Certificate Number	021/20
Sail Nr	EST 533	Issued On	05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1094.9	909.6	801.3	731.9	703.0	694.6	692.4
52°	718.1	607.5	545.1	514.6	501.1	496.3	494.4
60°	680.6	578.5	527.5	503.2	489.8	483.1	479.9
75°	654.8	557.6	515.1	494.0	478.6	466.4	454.4
90°	650.1	543.5	499.5	481.2	473.1	460.0	433.5
110°	644.7	535.9	493.7	469.3	447.7	432.5	414.2
120°	664.2	548.4	499.5	473.8	450.4	427.9	396.3
135°	733.6	598.9	524.1	490.9	467.7	444.6	401.5
150°	869.4	691.9	586.3	522.4	491.8	470.1	427.8
Run VMG	1003.9	798.9	676.4	594.9	538.7	502.0	458.9
Selected Courses							
Windward / Leeward	1049.4	854.2	738.8	663.4	620.9	598.3	575.7
Circular Random	883.6	712.1	619.5	565.5	532.3	510.9	485.3
Coastal / Long Distance	1044.8	801.5	665.2	581.8	540.5	510.8	463.7
Non Spinnaker	951.8	759.8	654.3	591.6	552.8	528.2	499.8

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	42.8°	40.9°	40.5°	39.0°	38.3°	38.3°	38.4°
Beat VMG	3.29	3.96	4.49	4.92	5.12	5.18	5.20
52°	5.01	5.93	6.60	7.00	7.18	7.25	7.28
60°	5.29	6.22	6.82	7.15	7.35	7.45	7.50
75°	5.50	6.46	6.99	7.29	7.52	7.72	7.92
90°	5.54	6.62	7.21	7.48	7.61	7.83	8.30
110°	5.58	6.72	7.29	7.67	8.04	8.32	8.69
120°	5.42	6.56	7.21	7.60	7.99	8.41	9.08
135°	4.91	6.01	6.87	7.33	7.70	8.10	8.97
150°	4.14	5.20	6.14	6.89	7.32	7.66	8.42
Run VMG	3.59	4.51	5.32	6.05	6.68	7.17	7.84
Gybe Angles	145.0°	150.0°	151.0°	157.0°	174.0°	180.0°	180.0°