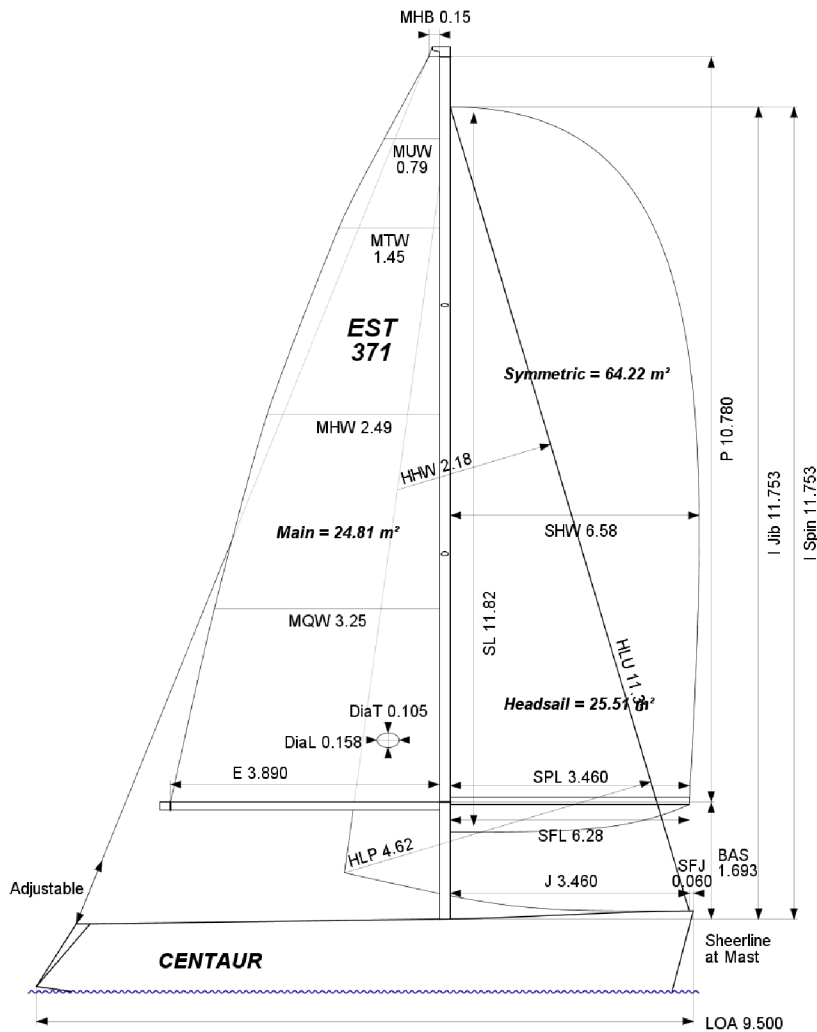




ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **017/20**
Issued On **05/06/2020**
ORC Ref **03880000JW4**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 579kg
Maximum **700kg**
Minimum* **525kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **703.3 0.8531**
Non Spin OSN **678.1 0.8849**

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 64.22**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 8.328

Stability (Estimated)
Limit Positive Stab.: **108.7°**
Stability Index: **106.7**

BOAT		GPH		HULL				
Name CENTAUR Sail Nr EST371		669.0		Data File	EST371	LOA	9.500m	
				Offset File	E5775A.OFF	MB	3.216m	
				Displacement	3,661kg	Draft	1.968m	
CLASS								
Class		FIRST 31.7LR						
Designer		FINOT						
Builder		Beneteau						
Series		09/1998						
Age Date		01/2005						
Age Allowance		0.487%						
COMMENTS								
PROPELLER				CENTERBOARD				
Installation		Strut	PRD	0.405	Water Ballast			0
Type		Folding 2 blades	PIPA	0.0030	Trim Tab			No
				BLR Index				0.0000
								N/A
SCORING OPTIONS								
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD			
Time on Distance	646.7				719.4			
Time on Time	0.9278				0.9383			
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	779.4	589.4	518.2	1007.9	725.3	619.6		
Time on Time	0.8661	1.1452	1.3026	0.6697	0.9307	1.0894		

BOAT Name CENTAUR Sail Nr EST371 File EST371 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 07/10/2019 SG VCGDe 0.200 FFM 1.162 FF 1.162 SFFP 0.303 FAM 0.986 FA 0.986 SAFF 8.732 LCF from stem on CL / on sheer 5.242 / 5.472 Maximum beam station from stem 6.386 RM Measured 71.3kg·m RM Default 74.6kg·m Limit of positive stability / Stab.Index 108.7° / 106.7 Freeboard at mast at 3.520 1.049														
RIG Forestay Tension Aft Spreaders 2 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 10.780 E 3.890 MDT1 0.105 MW 0.158 IG 11.753 J 3.460 MDL1 0.158 GO 0.178 ISP 11.753 SFJ 0.060 MDT2 0.105 BD 0.111 BAS 1.693 SPL 3.460 MDL2 0.158 MWT FSD 0.031 TPS TL MCG																
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.405 Type Folding 2 blades PBW Twin Screw No PIPA 0.0030 ST1 0.043 ST3 0.174 ST5 0.290 ST2 0.174 ST4 0.097 EDL 2.512														
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	0.15	0.79	1.45	2.49	3.25	24.81										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.56	1.07	2.18	3.37	4.62	11.35	134%	25.51		No					
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	11.82	11.82	11.82	6.58	6.28	64.23										
1	11.65	11.65	11.65	6.25	6.16	60.51										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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2020
Measurements
Datasheet

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2020

ORC Club Certificate Appendix

BOAT			
Name	CENTAUR	Certificate Number	017/20
Sail Nr	EST371	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	1149.2	946.6	832.0	758.7	728.2	718.6	721.4
52°	750.6	627.1	565.5	535.8	521.5	516.1	514.0
60°	710.4	596.8	547.4	523.8	509.1	501.3	497.5
75°	683.3	578.6	534.5	513.0	495.9	481.1	466.7
90°	693.5	575.2	524.7	500.8	488.2	473.4	442.5
110°	689.0	567.2	518.3	490.3	463.5	441.4	416.6
120°	710.9	582.3	525.2	495.7	467.6	440.6	394.4
135°	787.3	638.2	552.5	514.8	488.3	460.9	408.1
150°	938.4	738.1	620.4	548.9	515.1	490.4	440.8
Run VMG	1083.6	852.3	715.9	625.3	564.8	525.6	476.9
Selected Courses							
Windward / Leeward	1116.4	899.4	773.9	692.0	646.5	622.1	599.1
Circular Random	932.8	748.4	648.4	589.6	553.0	529.2	500.0
Coastal / Long Distance	1113.1	844.2	696.7	606.7	561.9	529.2	475.4
Non Spinnaker	993.7	791.7	680.8	614.9	574.0	547.5	515.6

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	42.8°	41.3°	40.9°	39.0°	37.9°	37.5°	37.9°
Beat VMG	3.13	3.80	4.33	4.74	4.94	5.01	4.99
52°	4.80	5.74	6.37	6.72	6.90	6.98	7.00
60°	5.07	6.03	6.58	6.87	7.07	7.18	7.24
75°	5.27	6.22	6.73	7.02	7.26	7.48	7.71
90°	5.19	6.26	6.86	7.19	7.37	7.61	8.14
110°	5.22	6.35	6.95	7.34	7.77	8.16	8.64
120°	5.06	6.18	6.85	7.26	7.70	8.17	9.13
135°	4.57	5.64	6.52	6.99	7.37	7.81	8.82
150°	3.84	4.88	5.80	6.56	6.99	7.34	8.17
Run VMG	3.32	4.22	5.03	5.76	6.37	6.85	7.55
Gybe Angles	146.0°	150.0°	151.0°	157.0°	174.0°	180.0°	180.0°