



ORC
Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST464**
Issued On **6/20/2019**
ORC Ref **EST0000671**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 595kg
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **653.8 0.9177**
Double H.OSN **635.9 0.9435**
Non Spin GPH **682.9 0.8786**
Non Spin OSN **660.4 0.9086**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 82.14**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.595

Stability (Measured)

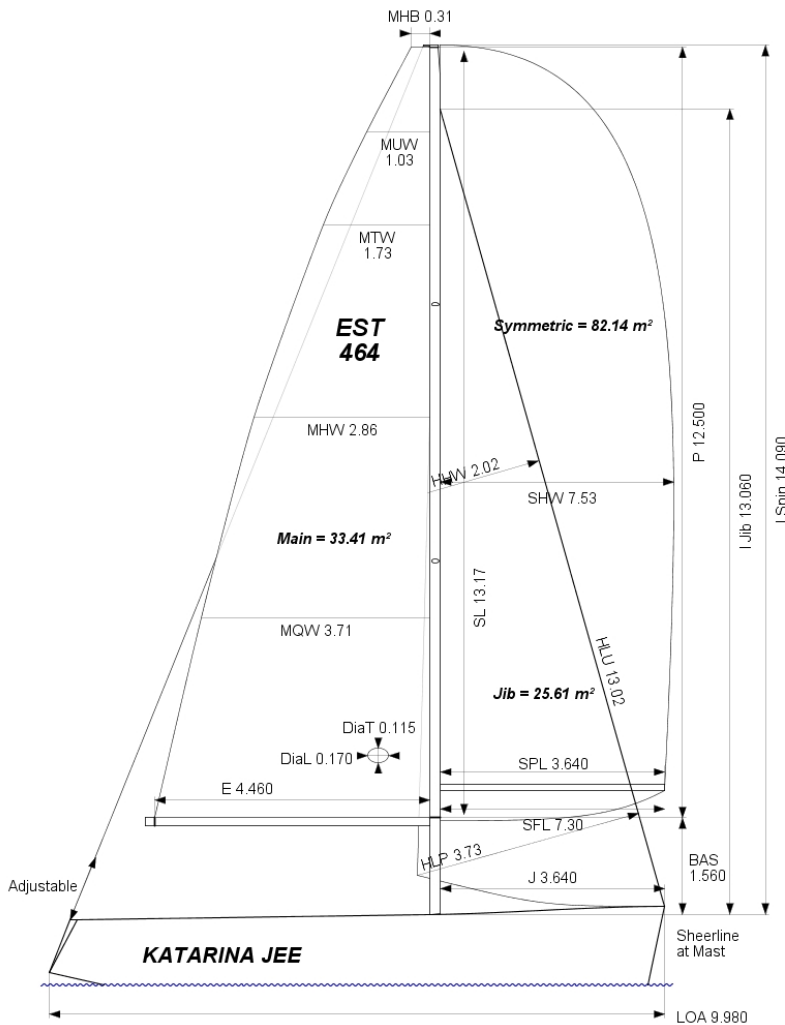
Limit Positive Stab.: **128.1°**
Stability Index: **128.4**

Owner

MTÜ ÜKSİK PURI
Rohu 5
Kuressaare, Estonia
SMS

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

Signature



BOAT Name KATARINA JEE Sail Nr EST 464		GPH 644.7	HULL Data File Est0464 LOA 9.980m Offset File F235.OFF MB 3.372m Displacement 4,842kg Draft 2.016m					
CLASS Class First 34.7 Designer Farr Builder Beneteau Series 10/2005 Age Date 03/2007 Age Allowance 0.455%			IMS Division Cruiser/Racer Dynamic All. 0.223% Fwd Accom. No Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions			IMSL 9.151m VCGD -0.107m Sink 16.63kg/mm RL 8.038m VCGM -0.107m WS 22.46m² LSM0 9.029m Displacement/Length ratio 6.5782		
COMMENTS			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD N/A		
PROPELLER Installation Strut PRD 0.410 Type Folding 2 blades PIPA 0.0030								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	625.6			696.1				
Time on Time	0.9590			0.9697				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	740.6	570.5	508.6	955.1	699.8	605.8		
Time on Time	0.9114	1.1832	1.3272	0.7067	0.9645	1.1142		

BOAT	
Name KATARINA JEE	Sail Nr EST 464
File Est0464	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 29/05/2007		SG 1.0050	
FFM 1.250	FF 1.266	SFFP 0.172	
FAM 1.035	FA 1.044	SAFP 9.530	
W1 60.2	PD1 202.0	WD 10.250	
W2 60.2	PD2 203.0	GSA 12.6	
W3 60.2	PD3 203.0	RSA 4298.7	
W4 60.2	PD4 203.0	PLM 2005.0	
LCF from stem on CL / on sheer		5.364 / 5.603	
Maximum beam station from stem		6.642	
RM Measured		106.5kg·m	
RM Default		100.1kg·m	
Limit of positive stability / Stab.Index		128.1° / 128.4	
Freeboard at mast at 3.640		1.144	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12.500	E 4.460	MDT1 0.115	MW 0.170
IG 13.060	J 3.640	MDL1 0.170	GO 0.190
ISP 14.090	SFJ 0.000	MDT2 0.115	BD 0.130
BAS 1.560	SPL 3.640	MDL2 0.138	MWT 128.00
FSP 0.066	TPS	TL 0.470	MCG 4.640

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0030		
ST1 0.035	ST3 0.182	ST5 0.280	
ST2 0.182	ST4 0.100	EDL 1.800	

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VPP Ver. 2019 1.01	
Valid until 12/31/2019	

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					
5	0.31	1.03	1.73	2.86	3.71	33.41				Unknown	P12,50;E4,46					
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
9	0.10	0.59	1.09	2.02	2.89	3.73	13.02	102%	25.61	Y		Sisil	23/11/2017	NS	Unknow	Heavy 2018
7a	0.11	0.60	1.11	2.05	2.93	3.72	12.85	102%	25.53	Y		EST 5	22/06/2016	NS	Unknow	
6a	0.10	0.58	1.10	2.05	2.93	3.74	12.86	103%	25.53	Y		EST 5	22/06/2016	NS	Unknow	
SYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
8	13.17	13.17	13.17	7.53	7.30	82.14					Unknown					
7	13.30	13.30	13.30	7.40	7.42	82.07					Unknown					
4	13.03	13.03	13.03	6.59	6.40	71.15	EST 5	27/06/2015			Unknown					
5	13.08	13.08	13.08	6.55	6.39	71.05	EST 5	27/06/2015			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	KATARINA JEE	Certificate Number	EST464
Sail Nr	EST 464	Issued On	6/20/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1108.3	920.7	809.2	744.8	721.4	712.8	707.3
52°	723.1	611.0	549.7	522.6	510.5	506.0	504.1
60°	683.6	580.4	532.8	510.5	498.1	491.9	488.7
75°	656.0	559.2	520.6	500.5	485.2	473.1	460.8
90°	656.0	549.5	508.3	491.9	481.7	465.9	439.1
110°	647.5	539.8	500.6	476.0	454.1	440.5	422.6
120°	666.3	550.5	505.7	479.7	454.7	431.6	402.1
135°	734.2	598.0	527.2	496.2	472.0	447.4	401.8
150°	862.8	688.9	584.2	525.3	496.9	474.3	429.7
Run VMG	996.2	795.4	673.7	595.7	540.8	506.9	462.5
Selected Courses							
Windward / Leeward	1052.3	858.1	741.4	670.2	631.1	609.9	584.9
Circular Random	888.6	717.3	625.4	572.1	539.5	518.5	492.0
Coastal / Long Distance	1046.7	804.9	668.8	589.3	549.4	519.0	470.5
Non Spinnaker	957.9	766.1	661.5	599.7	561.6	537.1	507.1

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	42.9°	41.3°	41.0°	39.4°	38.6°	38.8°	38.8°
Beat VMG	3.25	3.91	4.45	4.83	4.99	5.05	5.09
52°	4.98	5.89	6.55	6.89	7.05	7.11	7.14
60°	5.27	6.20	6.76	7.05	7.23	7.32	7.37
75°	5.49	6.44	6.92	7.19	7.42	7.61	7.81
90°	5.49	6.55	7.08	7.32	7.47	7.73	8.20
110°	5.56	6.67	7.19	7.56	7.93	8.17	8.52
120°	5.40	6.54	7.12	7.50	7.92	8.34	8.95
135°	4.90	6.02	6.83	7.26	7.63	8.05	8.96
150°	4.17	5.23	6.16	6.85	7.25	7.59	8.38
Run VMG	3.61	4.53	5.34	6.04	6.66	7.10	7.78
Gybe Angles	145.6°	149.8°	151.2°	158.2°	180.0°	180.0°	180.0°