



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **EST278**
Issued On **4/20/2019**
ORC Ref **EST00000454**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 611kg
Maximum **612kg**
Minimum* **459kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	653.9	0.9176
Double H.OSN	638.2	0.9401
Non Spin GPH	668.9	0.8970
Non Spin OSN	649.4	0.9239

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** **67.85**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.695

Stability (Measured)

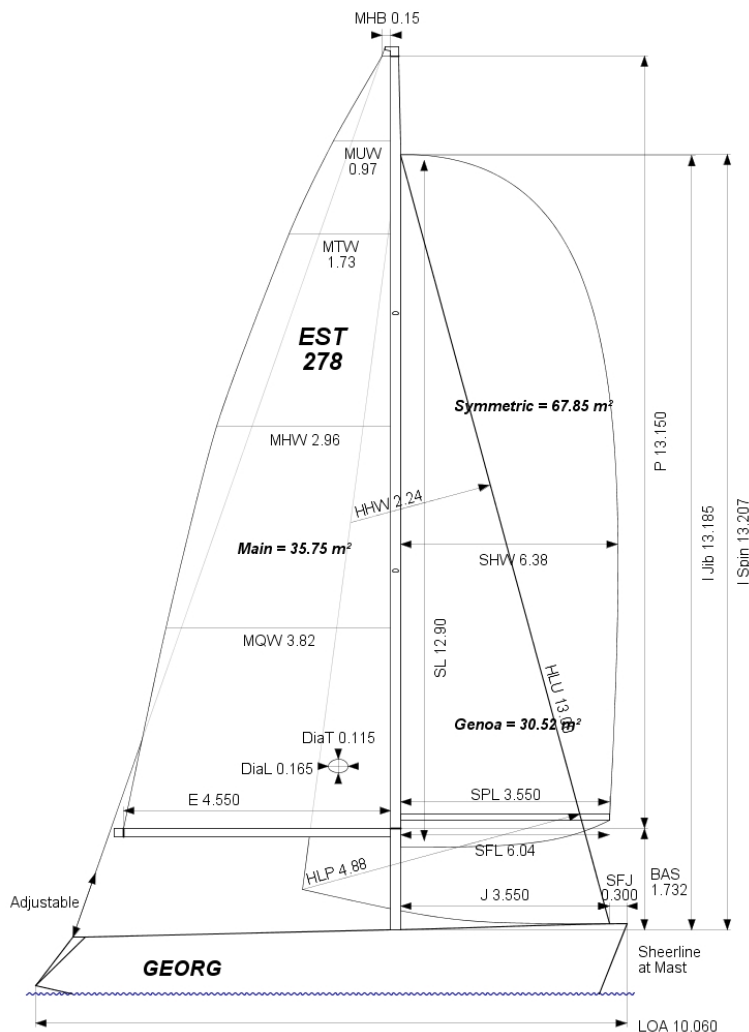
Limit Positive Stab.: **114.7°**
Stability Index: **115.4**

Owner

VIKTOR FEOFANOV
Aisa 18
Pärnu, Estonia
Pärnu JK

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

Signature



BOAT		GPH		HULL			
Name	GEORG			Data File	Est0278		
Sail Nr	EST-278			Offset File	IX332.BOF		
		643.9		Displacement	4,612kg		
				LOA	10.060m		
				MB	3.284m		
				Draft	1.825m		
CLASS				IMS Division	Cruiser/Racer		
Class	X-332			Dynamic All.	0.158%		
Designer	JEPPESEN			Fwd Accom.	Yes		
Builder	X YACHTS			Construction	Cored		
Series	01/1994			Fiber Rigging	No		
Age Date	01/2000			Aramid Core	No		
Age Allowance	0.487%			Carbon Rudder	No		
				Light Stanchions			
				IMSL	9.200m		
				VCGD	-0.013m		
				Sink	17.15kg/mm		
				RL	8.189m		
				VCGM	0.042m		
				WS	22.93m²		
				LSM0	9.201m		
				Displacement/Length ratio	5.9209		
				Water Ballast	0		
				Trim Tab	No		
				BLR Index	0.0000		
COMMENTS				CENTERBOARD			
				N/A			
PROPELLER							
Installation	Strut	PRD	0.380				
Type	Folding 2 blades	PIPA	0.0032				
SCORING OPTIONS							
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance		626.7			697.7		
Time on Time		0.9575			0.9675		
Triple Number		Low	Medium	High	Low	Medium	High
Time on Distance		734.7	571.0	512.5	949.0	700.1	611.7
Time on Time		0.9188	1.1822	1.3170	0.7113	0.9642	1.1034

BOAT	
Name GEORG	Sail Nr EST-278
File Est0278	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/05/2000		SG 1.0020	
FFM 1.175	FF 1.190	SFFP 0.513	
FAM 0.960	FA 0.970	SAFP 9.213	
W1 70.0	PD1 236.0	WD 10.000	
W2 70.0	PD2 234.0	GSA 12.6	
W3 70.0	PD3 232.0	RSA 4298.7	
W4 70.0	PD4 234.0	PLM 2005.0	
LCF from stem on CL / on sheer		5.620 / 5.848	
Maximum beam station from stem		6.331	
RM Measured		104.7kg·m	
RM Default		103.5kg·m	
Limit of positive stability / Stab.Index		114.7° / 115.4	
Freeboard at mast at 3.850		1.080	



ORC
Offshore Racing Congress
World leader in rating technology

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 13.150	E 4.550	MDT1 0.115	MW 0.165
IG 13.185	J 3.550	MDL1 0.165	GO 0.179
ISP 13.207	SFJ 0.300	MDT2 0.097	BD 0.150
BAS 1.732	SPL 3.550	MDL2 0.140	MWT 106.00
FSP 0.066	TPS	TL 1.550	MCG 4.850

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.380		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0032		
ST1 0.041	ST3	ST5 0.260	
ST2	ST4 0.112	EDL 2.020	

Certificate	
Number EST278	
ORC Ref EST00000454	
Issued On 4/20/2019	
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					
1	0.15	0.97	1.73	2.96	3.82	35.76				Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	0.65	1.08	2.24	3.51	4.88	13.00	137%	30.53						Unknown	Unknow
2	0.05	0.58	1.12	2.27	3.54	5.01	12.07	141%	28.71						Unknown	Unknow
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	12.90	12.90	12.90	6.38	6.04	67.86				Unknown	vana					
1	12.90	12.90	12.90	6.38	6.04	67.86				Unknown	valge					
3	12.72	12.72	12.72	6.36	5.93	66.51				Unknown	hall					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2019

ORC Club Certificate Appendix

BOAT

Name	GEORG	Certificate Number	EST278
Sail Nr	EST-278	Issued On	4/20/2019

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1060.1	883.0	780.2	737.9	723.1	717.9	715.3
52°	695.0	588.6	538.4	520.0	513.5	510.6	508.5
60°	656.8	563.7	524.8	507.9	500.1	496.4	494.6
75°	629.1	547.1	515.0	496.4	482.9	474.1	467.5
90°	637.4	548.2	510.6	491.2	476.8	460.5	439.2
110°	657.1	547.8	506.6	481.2	457.4	439.3	418.9
120°	680.1	562.2	513.2	486.8	461.8	437.9	400.6
135°	756.1	617.1	540.0	505.7	481.3	456.3	409.3
150°	894.7	709.7	602.1	537.1	505.6	482.6	436.6
Run VMG	1033.1	819.5	693.4	609.0	548.9	513.4	467.9

Selected Courses

Windward / Leeward	1046.6	851.2	736.8	673.5	636.0	615.7	591.6
Circular Random	882.7	714.4	624.8	573.3	542.1	521.9	496.4
Coastal / Long Distance	1045.3	800.2	666.0	591.6	553.2	523.2	473.6
Non Spinnaker	928.0	746.2	648.3	591.6	557.0	534.7	506.6

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	42.5°	41.3°	40.5°	39.1°	38.5°	38.3°	38.7°
Beat VMG	3.40	4.08	4.61	4.88	4.98	5.01	5.03
52°	5.18	6.12	6.69	6.92	7.01	7.05	7.08
60°	5.48	6.39	6.86	7.09	7.20	7.25	7.28
75°	5.72	6.58	6.99	7.25	7.45	7.59	7.70
90°	5.65	6.57	7.05	7.33	7.55	7.82	8.20
110°	5.48	6.57	7.11	7.48	7.87	8.20	8.59
120°	5.29	6.40	7.01	7.40	7.79	8.22	8.99
135°	4.76	5.83	6.67	7.12	7.48	7.89	8.80
150°	4.02	5.07	5.98	6.70	7.12	7.46	8.24
Run VMG	3.48	4.39	5.19	5.91	6.56	7.01	7.69
Gybe Angles	145.3°	150.4°	152.7°	159.2°	180.0°	180.0°	180.0°