



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST708**
Issued On **6/11/2019**
ORC Ref **EST0000655**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 636kg
Maximum **750kg**
Minimum* **563kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	635.3	0.9444
Double H.OSN	618.4	0.9702
Non Spin GPH	662.4	0.9058
Non Spin OSN	640.7	0.9364

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 95.34**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.125

Stability (Estimated)

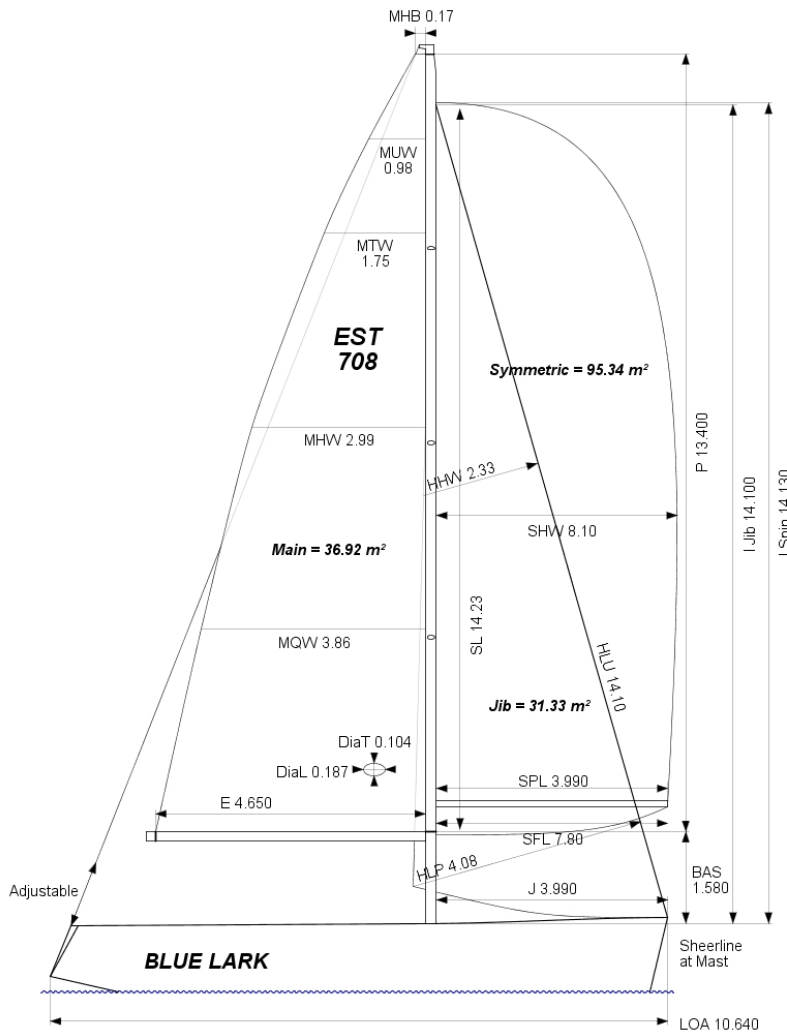
Limit Positive Stab.: **121.3°**
Stability Index: **122.7**

Owner

**Sergei Parfenenko
Palderjani tee 1/1, Tallinn
Estonia
KJK**

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

Signature



BOAT		GPH		HULL			
Name	BLUE LARK	626.8	Data File	Est0708	LOA	10.640m	
Sail Nr	EST 708		Offset File	F196.BOF	MB	3.458m	
			Displacement	5,410kg	Draft	2.221m	
CLASS							
Class	First 36.7	IMS Division		Cruiser/Racer	Dynamic All.	0.197%	
Designer	B.Farr	Fwd Accom.	Yes	Construction	Solid		
Builder	Beneteau S.A.	Fiber Rigging	No	Aramid Core	No		
Series	01/2001	Crew Arm Ex		Carbon Rudder	No		
Age Date	01/2004	Light Stanchions					
Age Allowance	0.487%	IMSL	9.483m	VCGM	0.008m	Sink	18.56kg/mm
		RL	8.765m	VCGM	0.003m	WS	24.59m²
		LSM0	9.457m Displacement/Length ratio 6.3964				
COMMENTS		Water Ballast		0	Trim Tab	No	
Displacement, rig-owners declaration		BLR Index		0.0000			
PROPELLER		CENTERBOARD					
Installation	Strut	PRD	0.410	N/A			
Type	Folding 2 blades	PBW	0.130				
		PIPA	0.0027				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance	607.9			675.5			
Time on Time	0.9870			0.9992			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	721.2	554.6	493.6	930.0	679.0	586.3	
Time on Time	0.9360	1.2170	1.3676	0.7258	0.9941	1.1512	

BOAT	
Name BLUE LARK	Sail Nr EST 708
File Est0708	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 25/08/2015		SG	
FFM	FF 1.269	SFFP	0.367
FAM	FA 1.137	SAFP	10.162
LCF from stem on CL / on sheer		5.707 / 5.902	
Maximum beam station from stem		6.980	
RM Measured		135.0kg·m	
RM Default		131.1kg·m	
Limit of positive stability / Stab.Index		121.3° / 122.7	
Freeboard at mast at 3.990		1.177	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 3		Runners 0
Inner Stay None Fitted	Jumper Struts None		Jib Furler No
Carbon Mast No	Main Furler No		Without Backstay No
Taper Hollows No	Articulated Bowsprit No		
Fiber Rigging No			
Lenticular Rigging No			
P 13.400	E 4.650	MDT1 0.104	MW 0.187
IG 14.100	J 3.990	MDL1 0.187	GO 0.207
ISP 14.130	SFJ 0.000	MDT2 0.102	BD 0.160
BAS 1.580	SPL 3.990	MDL2 0.150	MWT 149.50
FSP 0.066	TPS	TL 0.330	MCG 5.040

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.130		
Twin Screw No	PIPA 0.0027		
ST1 0.042	ST3	ST5 0.280	
ST2	ST4 0.090	EDL 2.450	

Certificate	
Number EST708	
ORC Ref EST00000655	
Issued On 6/11/2019	
VPP Ver. 2019 1.01	
Valid until 12/31/2019	

COMMENTS	
Displacement, rig-owners declaration	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0.17	0.98	1.75	2.99	3.86	36.92				Unknown	2018 P13,40;E4,65					
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
8	0.12	0.73	1.34	2.33	3.20	4.08	14.10	102%	31.34			Sisil	19/10/2018	NS	Unknown	L
7	0.12	0.70	1.29	2.26	3.14	4.07	14.10	102%	30.74			Sisil	16/10/2018	NS	Unknown	L/M
6	0.13	0.57	1.08	2.08	3.07	4.04	13.96	101%	28.89					OneSails	Unknown	2018
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
6	14.23	14.23	14.23	8.10	7.80	95.35	Hemamali	03/10/2018	NS	Unknown						
4	13.75	13.75	13.75	7.44	7.05	84.36			NS	Unknown	2018					
3	13.67	13.67	13.67	7.45	7.10	84.08			NS	Unknown	2018					
5	13.50	13.50	13.50	6.80	6.95	76.84			OneSails	Unknown	2018					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2009

ORC Club Certificate Appendix

BOAT			
Name	BLUE LARK	Certificate Number	EST708
Sail Nr	EST 708	Issued On	6/11/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1058.9	881.7	773.3	713.2	692.8	685.1	675.5
52°	696.4	589.4	531.9	507.0	496.6	492.7	489.3
60°	660.2	562.3	517.7	496.3	484.5	479.3	476.3
75°	634.7	544.0	507.4	487.3	471.7	459.8	450.0
90°	642.5	537.6	495.9	478.9	467.9	451.6	426.1
110°	635.9	529.1	489.2	463.8	441.6	428.0	411.0
120°	653.6	539.9	494.6	468.0	442.8	419.8	390.9
135°	719.8	587.3	516.5	485.1	460.5	436.2	391.6
150°	857.2	684.0	576.8	515.1	486.3	463.4	419.7
Run VMG	989.8	789.8	666.1	585.1	531.9	497.3	452.7
Selected Courses							
Windward / Leeward	1024.4	835.8	719.7	649.2	612.4	591.2	564.1
Circular Random	864.5	697.7	608.1	556.0	524.0	503.1	476.7
Coastal / Long Distance	1020.9	784.8	649.9	571.5	533.4	503.8	456.8
Non Spinnaker	927.8	742.7	641.7	582.1	545.3	521.4	492.2

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	42.3°	40.7°	40.5°	38.5°	38.1°	37.9°	37.6°
Beat VMG	3.40	4.08	4.66	5.05	5.20	5.25	5.33
52°	5.17	6.11	6.77	7.10	7.25	7.31	7.36
60°	5.45	6.40	6.95	7.25	7.43	7.51	7.56
75°	5.67	6.62	7.10	7.39	7.63	7.83	8.00
90°	5.60	6.70	7.26	7.52	7.69	7.97	8.45
110°	5.66	6.80	7.36	7.76	8.15	8.41	8.76
120°	5.51	6.67	7.28	7.69	8.13	8.57	9.21
135°	5.00	6.13	6.97	7.42	7.82	8.25	9.19
150°	4.20	5.26	6.24	6.99	7.40	7.77	8.58
Run VMG	3.64	4.56	5.40	6.15	6.77	7.24	7.95
Gybe Angles	145.3°	149.8°	149.7°	157.5°	174.9°	180.0°	180.0°