



ORC
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **2866.4**
Issued On **29/06/2020**
ORC Ref **03570000LK6**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 676kg
Maximum **676kg**
Minimum* **507kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **716.9 0.8369**
Non Spin OSN **691.0 0.8683**

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes 112.02**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

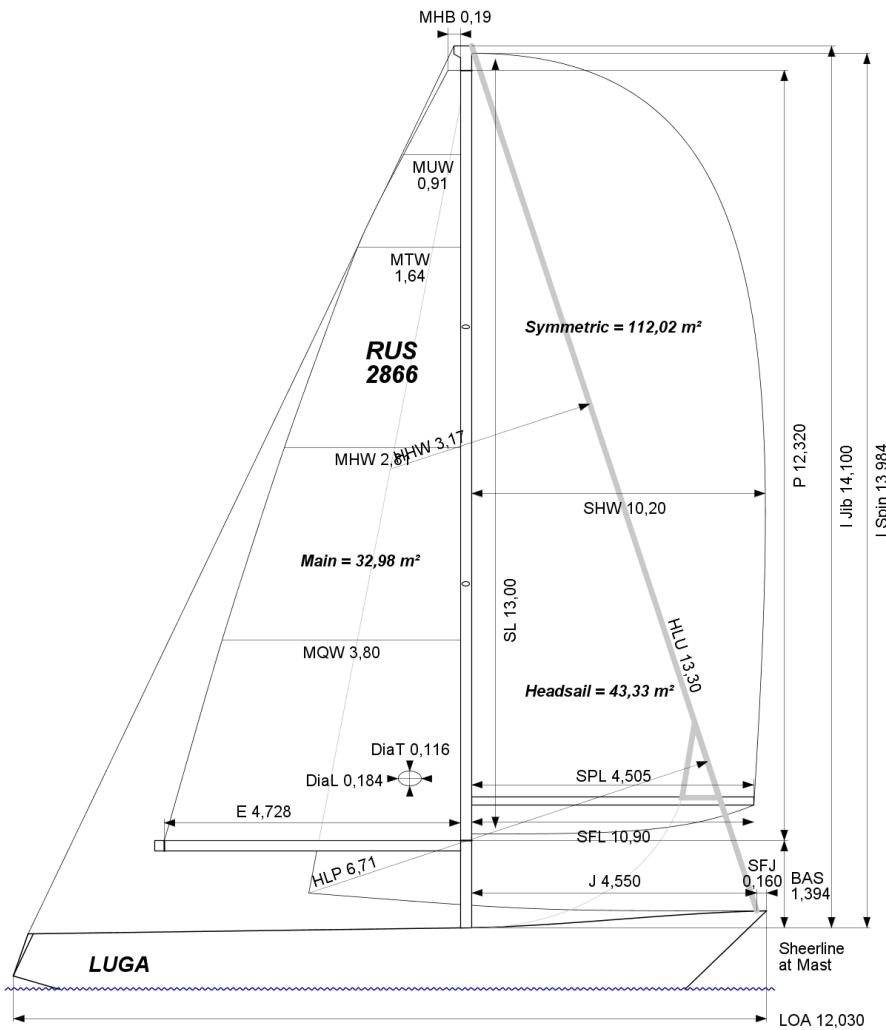
Class Division Length

CDL = 8.579

Stability (Estimated)

Limit Positive Stab.: **127.3°**
Stability Index: **134.9**

Owner



BOAT Name Luga Sail Nr RUS 2866		GPH 677.9	HULL Data File RU2866_Luga LOA 12.030m Offset File Luga.off MB 3.356m Displacement 8,756kg Draft 1.881m					
CLASS Class L-60 mod Designer Aleksandrov Builder Len.Sport yard Series 06/1936 Age Date 01/1978 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.549% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No					
COMMENTS			IMSL 10.109m VCGD -0.277m Sink 19.77kg/mm RL 7.049m VCGM -0.194m WS 33.62m² LSM0 9.871m Displacement/Length ratio 9.1038 Water Ballast 0 Trim Tab No BLR Index 0.0000					
PROPELLER Installation In Aperture PRD 0.438 Type Solid 2 blades PBW 0.111 PIPA 0.0134			CENTERBOARD N/A					
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	654.6			732.5				
Time on Time	0.9165			0.9216				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	807.2	592.8	516.1	1050.1	741.1	617.7		
Time on Time	0.8362	1.1387	1.3078	0.6428	0.9108	1.0927		

2020

ORC Club Certificate Appendix

BOAT	
Name Luga	Certificate Number 2866.4
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1236.9	1004.6	876.9	795.3	750.2	729.1	713.8
52°	791.3	658.5	579.8	532.2	511.1	501.8	494.9
60°	738.9	622.0	549.6	513.5	496.7	487.5	480.2
75°	704.2	593.9	529.0	500.2	484.8	474.3	460.6
90°	712.9	595.5	522.9	497.6	481.2	468.9	448.9
110°	699.1	571.3	505.5	479.2	462.7	452.9	438.0
120°	721.8	582.5	510.1	480.7	461.6	444.3	421.3
135°	805.7	639.2	539.3	495.2	472.8	454.2	417.6
150°	952.2	744.3	616.6	536.5	496.4	475.1	440.4
Run VMG	1099.5	859.5	711.9	615.9	557.3	512.1	467.9
Selected Courses							
Windward / Leeward	1168.2	932.0	794.4	705.6	653.7	620.6	590.9
Circular Random	959.0	763.6	656.0	592.2	552.9	528.0	499.8
Coastal / Long Distance	1161.3	872.8	709.6	610.3	559.5	525.0	477.4
Non Spinnaker	1027.4	812.8	693.3	621.0	575.4	545.8	511.4

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	45.0°	42.9°	42.0°	42.0°	41.6°	40.9°	40.5°
Beat VMG	2.91	3.58	4.11	4.53	4.80	4.94	5.04
52°	4.55	5.47	6.21	6.76	7.04	7.17	7.27
60°	4.87	5.79	6.55	7.01	7.25	7.38	7.50
75°	5.11	6.06	6.81	7.20	7.43	7.59	7.82
90°	5.05	6.05	6.88	7.24	7.48	7.68	8.02
110°	5.15	6.30	7.12	7.51	7.78	7.95	8.22
120°	4.99	6.18	7.06	7.49	7.80	8.10	8.55
135°	4.47	5.63	6.68	7.27	7.61	7.93	8.62
150°	3.78	4.84	5.84	6.71	7.25	7.58	8.17
Run VMG	3.27	4.19	5.06	5.85	6.46	7.03	7.69
Gybe Angles	146.0°	150.0°	148.0°	153.0°	162.0°	180.0°	180.0°