



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **7772.3**
Issued On **13/07/2020**
ORC Ref **03570000MF6**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 551kg
Maximum **512kg**
Minimum* **384kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	680.8	0.8813
Non Spin OSN	660.5	0.9084

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **56.16**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

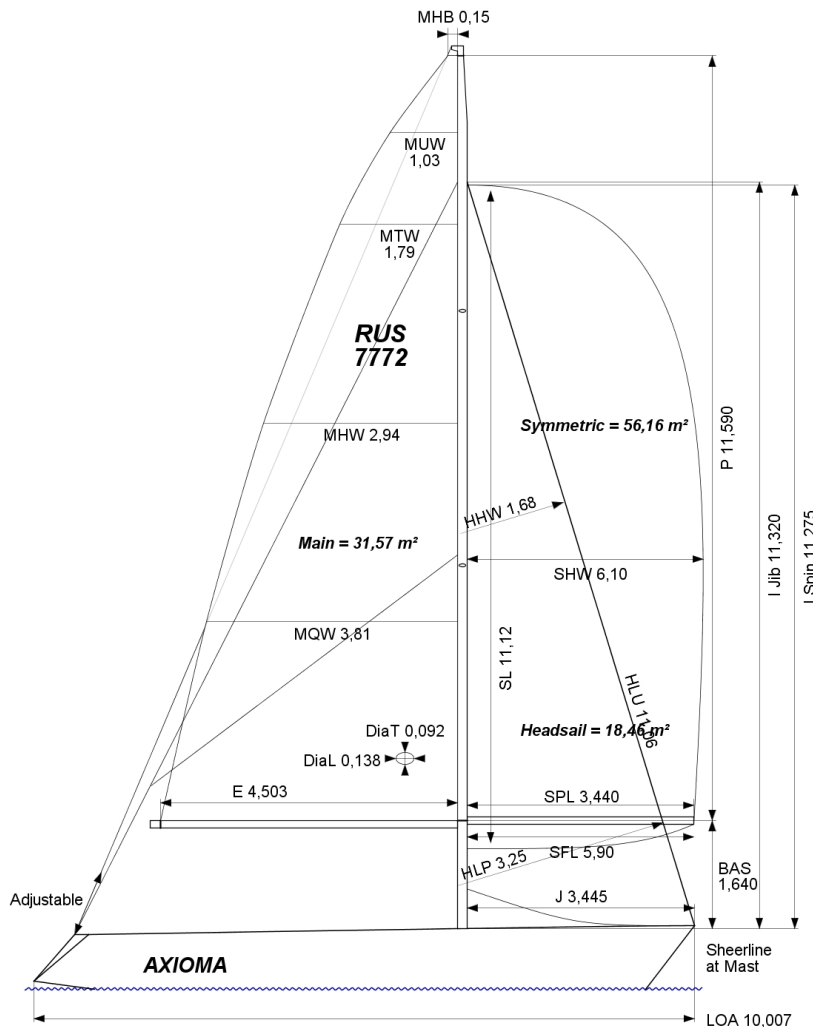
Class Division Length

CDL = 8.339

Stability (Measured)

Limit Positive Stab.: **112.8°**
Stability Index: **111.9**

Owner



BOAT		GPH	HULL			
Name AXIOMA Sail Nr RUS-7772		650.7	Data File RU7772_Axioma	LOA 10.007m		
			Offset File X99.od.off	MB 2.992m		
			Displacement 3,276kg	Draft 1.810m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.211%		
Class X-99			Plan Review	Construction Cored		
Designer NIELS JEPPESEN			Fiber Rigging No	Aramid Core No		
Builder X-YACHTS			Crew Arm Ex	Carbon Rudder No		
Series 05/1990				Light Stanchions No		
Age Date 06/1990			IMSL 8.767m	VCGD -0.027m	Sink 14.00kg/mm	
Age Allowance 0.487%			RL 7.922m	VCGM 0.003m	WS 18.96m²	
COMMENTS			LSM0 8.560m	Displacement/Length ratio 5.2230		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.355		N/A			
Type Folding 2 blades	PBW 0.095					
	PIPA 0.0030					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	632.3			706.0		
Time on Time	0.9489			0.9561		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	746.9	575.8	511.9	968.6	708.0	615.3
Time on Time	0.9037	1.1723	1.3185	0.6969	0.9534	1.0971

2020

ORC Club Certificate Appendix

BOAT	
Name AXIOMA	Certificate Number 7772.3
Sail Nr RUS-7772	Issued On 13/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1093.4	901.5	795.3	750.2	735.5	730.0	716.7
52°	713.5	601.5	548.5	528.7	521.4	517.9	510.2
60°	673.7	574.9	533.9	515.5	506.3	501.7	495.4
75°	647.5	556.8	522.5	502.1	486.4	475.1	466.2
90°	652.1	550.1	512.8	495.0	478.3	459.2	433.7
110°	655.4	546.8	506.9	477.9	451.5	434.4	410.0
120°	680.1	560.3	513.7	483.6	454.1	426.6	387.3
135°	761.1	615.9	540.2	505.8	477.2	447.9	390.2
150°	910.4	717.4	603.3	538.0	506.1	479.3	425.6
Run VMG	1051.3	828.3	695.9	609.5	550.3	514.8	462.7
Selected Courses							
Windward / Leeward	1072.3	864.9	745.6	679.9	642.9	622.4	589.7
Circular Random	897.4	723.9	631.1	577.4	544.3	521.9	491.0
Coastal / Long Distance	1070.2	812.1	673.3	596.6	556.4	523.9	467.9
Non Spinnaker	953.0	762.5	659.3	599.0	561.9	537.4	505.1

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	42.8°	41.3°	40.5°	39.0°	38.3°	38.3°	38.6°
Beat VMG	3.29	3.99	4.53	4.80	4.89	4.93	5.02
52°	5.05	5.98	6.56	6.81	6.90	6.95	7.06
60°	5.34	6.26	6.74	6.98	7.11	7.18	7.27
75°	5.56	6.46	6.89	7.17	7.40	7.58	7.72
90°	5.52	6.54	7.02	7.27	7.53	7.84	8.30
110°	5.49	6.58	7.10	7.53	7.97	8.29	8.78
120°	5.29	6.43	7.01	7.44	7.93	8.44	9.29
135°	4.73	5.85	6.66	7.12	7.54	8.04	9.23
150°	3.95	5.02	5.97	6.69	7.11	7.51	8.46
Run VMG	3.42	4.35	5.17	5.91	6.54	6.99	7.78
Gybe Angles	145.0°	149.5°	151.0°	159.0°	180.0°	180.0°	180.0°