



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **038/20**
Issued On **18/06/2020**
ORC Ref **03850000KWR**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 576kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	714.1	0.8402
Non Spin OSN	690.4	0.8691

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 69.81**
Flying H/S: **No**
Spin. Pole: **Yes**

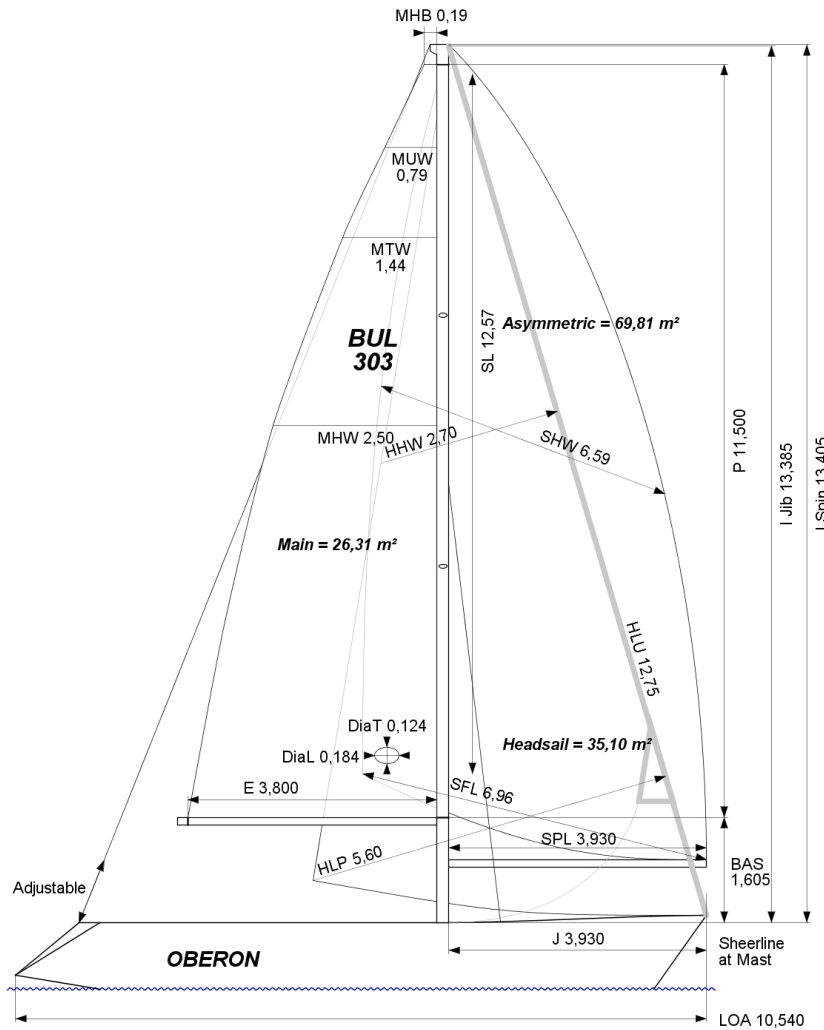
Class Division Length

CDL = 7.909

Stability (Estimated)

Limit Positive Stab.: **119.1°**
Stability Index: **120.7**

Owner



BOAT	GPH	HULL
Name Oberon Sail Nr BUL-303	684.4	Data File BUL303 LOA 10.540m Offset File H193.BOF MB 3.494m Displacement 5,700kg Draft 1.954m
CLASS Class Fisrt 345 Designer Berret Builder Beneteau Series 01/1984 Age Date 01/1985 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.457% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 8.691m VCGD -0.041m Sink 16.48kg/mm RL 7.125m VCGM -0.037m WS 23.48m² LSM0 8.822m Displacement/Length ratio 8.3018
PROPELLER Installation Shaft exposed PRD 0.400 Type Folding 3 blades PBW 0.140 PIPA 0.0043		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	663.1	739.9
Time on Time	0.9048	0.9123
Triple Number	Low Medium High	Low Medium High
Time on Distance	794.8 603.5 534.7	1025.8 747.4 638.8
Time on Time	0.8493 1.1184 1.2625	0.6580 0.9031 1.0567

2020

ORC Club Certificate Appendix

BOAT	
Name Oberon	Certificate Number 038/20
Sail Nr BUL-303	Issued On 18/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1171.8	973.5	861.2	791.1	760.6	748.4	749.1
52°	763.7	647.1	576.2	543.6	528.9	522.7	520.0
60°	722.1	613.9	554.8	529.0	515.4	507.6	502.9
75°	691.9	588.2	539.6	517.0	502.3	490.9	476.6
90°	699.7	590.0	531.2	506.8	495.6	484.1	461.0
110°	703.7	580.1	525.5	499.7	479.3	461.2	441.7
120°	728.8	598.3	533.0	504.2	482.6	462.8	429.2
135°	807.3	658.0	565.3	521.9	497.8	476.9	438.1
150°	947.3	748.6	635.1	559.3	521.5	498.9	460.2
Run VMG	1093.9	864.0	731.8	639.8	574.8	531.7	487.4
Selected Courses							
Windward / Leeward	1132.8	918.8	796.5	715.4	667.7	640.0	618.3
Circular Random	950.3	764.3	663.5	604.4	568.3	545.5	519.8
Coastal / Long Distance	1128.9	862.5	714.8	622.8	576.8	544.4	494.9
Non Spinnaker	1004.2	802.3	691.6	625.9	585.3	559.5	529.9

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	43.5°	41.6°	41.3°	40.9°	40.5°	40.1°	40.5°
Beat VMG	3.07	3.70	4.18	4.55	4.73	4.81	4.81
52°	4.71	5.56	6.25	6.62	6.81	6.89	6.92
60°	4.99	5.86	6.49	6.81	6.99	7.09	7.16
75°	5.20	6.12	6.67	6.96	7.17	7.33	7.55
90°	5.15	6.10	6.78	7.10	7.26	7.44	7.81
110°	5.12	6.21	6.85	7.20	7.51	7.81	8.15
120°	4.94	6.02	6.75	7.14	7.46	7.78	8.39
135°	4.46	5.47	6.37	6.90	7.23	7.55	8.22
150°	3.80	4.81	5.67	6.44	6.90	7.22	7.82
Run VMG	3.29	4.17	4.92	5.63	6.26	6.77	7.39
Gybe Angles	147.0°	151.0°	153.0°	156.0°	174.0°	180.0°	180.0°