



2020
ORC Club
Certificate

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **011/20**
Issued On **11/08/2020**
ORC Ref **03850000A0B**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 857kg
Maximum **600kg**
Minimum* **450kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	642.6	0.9337
Non Spin OSN	622.9	0.9632

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 134.77**
Flying H/S: **No**
Spin. Pole: **No**

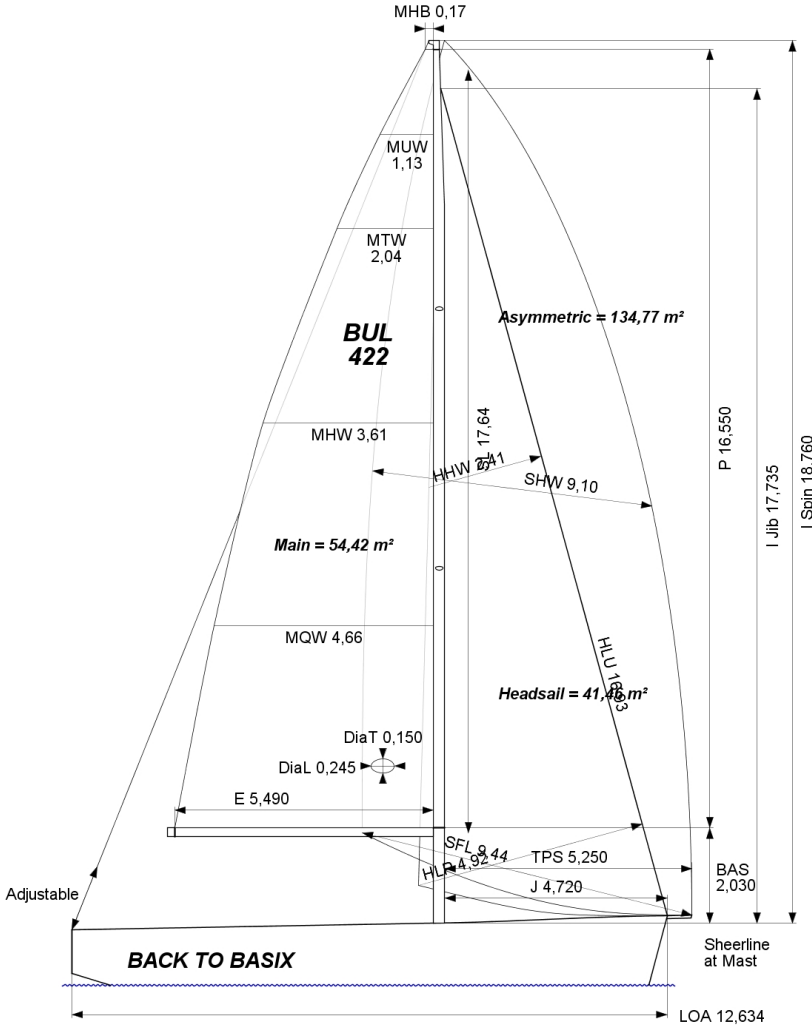
Class Division Length

CDL = 10.196

Stability (Estimated)

Limit Positive Stab.: **119.2°**
Stability Index: **126.5**

Owner



BOAT
Name Back To Basix Sail Nr BUL 422

GPH
606.7

HULL
Data File BUL422 LOA 12.634m Offset File XC42.OFF MB 4.080m Displacement 11,522kg Draft 2.114m

CLASS
Class Xc 42 Designer Jeppesen Builder X-Yachts Series 01/2009 Age Date Age Allowance 0.357%

IMS Division Cruiser/Racer Dynamic All. 0.337%
Plan Review Construction Cored
Fiber Rigging No Aramid Core No
Crew Arm Ex Carbon Rudder No
Light Stanchions No

IMSL 11.606m VCGD 0.020m Sink 28.18kg/mm
RL 8.785m VCGM 0.005m WS 37.66m²
LSM0 11.657m Displacement/Length ratio 7.2739

COMMENTS

Water Ballast 0 Trim Tab No BLR Index 0.0000

PROPELLER
Installation Strut PRD 0.457 Type Folding 3 blades PIPA 0.0008

CENTERBOARD
N/A

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	590.1			665.6		
Time on Time	1.0168			1.0141		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	700.1	535.7	478.7	909.3	671.0	580.3
Time on Time	0.9642	1.2600	1.4101	0.7423	1.0059	1.1631

2020

ORC Club Certificate Appendix

BOAT	
Name	Back To Basix
Sail Nr	BUL 422
Certificate Number	011/20
Issued On	11/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1062.4	876.5	773.5	712.4	683.8	672.0	664.8
52°	685.6	579.0	513.8	481.8	468.0	462.8	459.9
60°	644.5	548.4	492.2	467.2	455.0	449.0	445.4
75°	614.1	524.0	477.4	456.2	443.5	434.4	424.5
90°	610.8	509.1	464.0	448.0	440.5	428.9	409.2
110°	604.1	500.5	457.4	436.8	420.6	409.5	393.6
120°	620.9	513.8	463.5	440.4	422.4	404.8	378.2
135°	690.2	564.7	489.7	455.5	435.7	418.0	382.9
150°	817.7	653.2	557.4	496.5	466.5	447.8	420.5
Run VMG	944.2	754.3	643.7	573.3	537.2	497.1	447.3
Selected Courses							
Windward / Leeward	1003.3	815.4	708.6	642.9	610.5	584.5	556.0
Circular Random	838.5	675.7	588.2	537.7	507.1	487.7	464.4
Coastal / Long Distance	997.4	763.6	633.8	555.1	516.7	486.4	441.0
Non Spinnaker	908.4	723.8	622.0	561.4	523.7	499.7	472.4

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	43.9°	42.0°	41.6°	42.0°	41.3°	40.7°	40.5°
Beat VMG	3.39	4.11	4.65	5.05	5.26	5.36	5.42
52°	5.25	6.22	7.01	7.47	7.69	7.78	7.83
60°	5.59	6.56	7.31	7.71	7.91	8.02	8.08
75°	5.86	6.87	7.54	7.89	8.12	8.29	8.48
90°	5.89	7.07	7.76	8.03	8.17	8.39	8.80
110°	5.96	7.19	7.87	8.24	8.56	8.79	9.15
120°	5.80	7.01	7.77	8.17	8.52	8.89	9.52
135°	5.22	6.38	7.35	7.90	8.26	8.61	9.40
150°	4.40	5.51	6.46	7.25	7.72	8.04	8.56
Run VMG	3.81	4.77	5.59	6.28	6.70	7.24	8.05
Gybe Angles	144.0°	148.0°	148.0°	148.8°	151.0°	176.0°	178.0°