



ORC

Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **053/20**
Issued On **06/08/2020**
ORC Ref **038500003V**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 466kg
Maximum **466kg**
Minimum* **350kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **776.5 0.7727**
Non Spin OSN **751.2 0.7987**

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 62.02**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

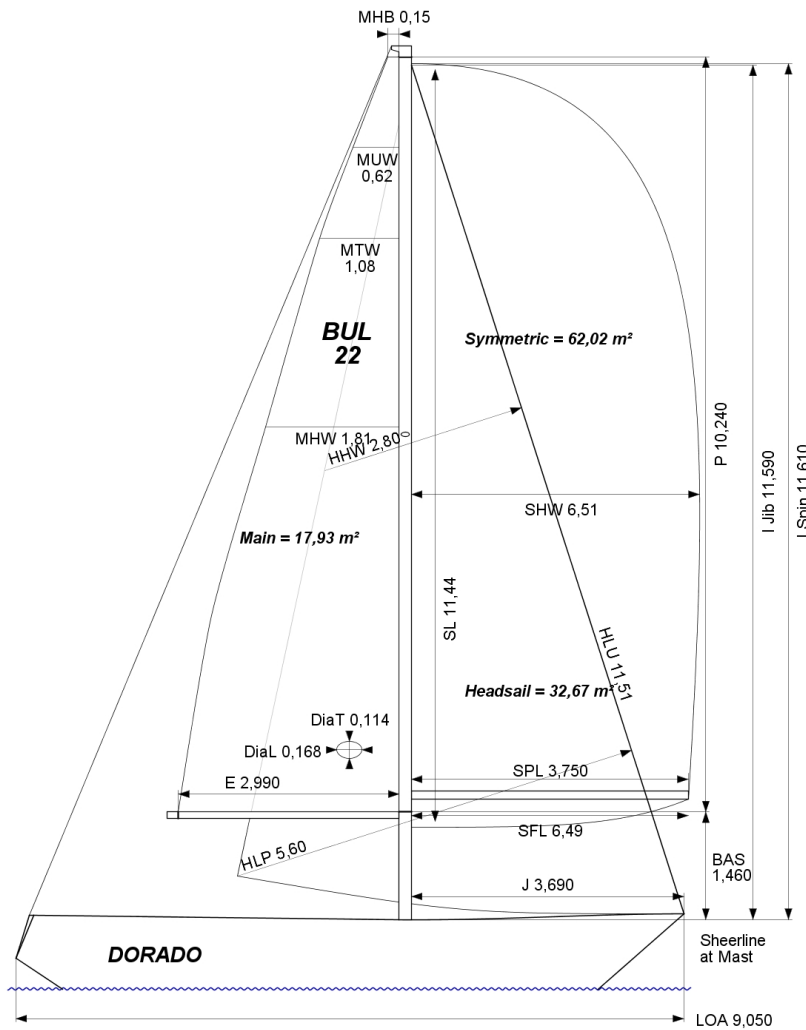
Class Division Length

CDL = 6.546

Stability (Estimated)

Limit Positive Stab.: **116.6°**
Stability Index: **115.6**

Owner



BOAT Name Dorado Sail Nr BUL-22		GPH 745.5	HULL Data File BUL22 LOA 9.050m Offset File CARTER30.OFF MB 3.092m Displacement 3,635kg Draft 1.557m			
CLASS Class Carter 30 Designer Carter Builder Verf im. L. Teligi Series 01/1975 Age Date 01/1977 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.271% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 7.304m VCGD 0.015m Sink 12.21kg/mm RL 5.787m VCGM 0.022m WS 17.13m² LSM0 7.601m Displacement/Length ratio 8.2774		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Shaft exposed PRD 0.380 Type Solid 3 blades PIPA 0.0180		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	723.4			807.4		
Time on Time	0.8294			0.8360		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	858.8	658.7	590.2	1104.9	812.4	707.3
Time on Time	0.7860	1.0248	1.1437	0.6109	0.8309	0.9543

2020

ORC Club Certificate Appendix

BOAT	
Name Dorado	Certificate Number 053/20
Sail Nr BUL-22	Issued On 06/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1280.6	1070.6	949.0	877.8	851.6	842.5	854.4
52°	832.3	703.9	630.3	598.5	585.8	581.2	581.3
60°	784.9	664.9	607.4	582.6	569.6	563.8	561.9
75°	753.9	638.9	591.9	569.6	553.6	541.3	530.2
90°	762.7	642.9	585.5	560.1	547.8	531.6	506.3
110°	765.2	629.2	574.7	546.6	522.2	502.5	484.1
120°	785.1	643.2	579.9	550.1	524.4	500.8	468.4
135°	859.8	701.2	606.6	567.3	540.9	515.4	472.9
150°	998.5	793.8	673.2	599.6	566.0	541.7	496.3
Run VMG	1153.0	915.6	775.2	678.7	611.0	573.8	526.8
Selected Courses							
Windward / Leeward	1216.8	993.1	862.1	778.2	731.3	708.2	690.6
Circular Random	1029.0	829.9	723.0	661.1	624.1	601.3	576.6
Coastal / Long Distance	1210.4	931.7	775.3	681.0	634.1	599.8	546.6
Non Spinnaker	1084.5	869.2	752.3	683.9	642.4	616.6	588.3

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	43.7°	42.0°	42.8°	42.0°	41.3°	40.9°	41.6°
Beat VMG	2.81	3.36	3.79	4.10	4.23	4.27	4.21
52°	4.33	5.11	5.71	6.02	6.15	6.19	6.19
60°	4.59	5.41	5.93	6.18	6.32	6.38	6.41
75°	4.78	5.63	6.08	6.32	6.50	6.65	6.79
90°	4.72	5.60	6.15	6.43	6.57	6.77	7.11
110°	4.70	5.72	6.26	6.59	6.89	7.16	7.44
120°	4.59	5.60	6.21	6.54	6.86	7.19	7.69
135°	4.19	5.13	5.93	6.35	6.66	6.99	7.61
150°	3.61	4.53	5.35	6.00	6.36	6.65	7.25
Run VMG	3.12	3.93	4.64	5.30	5.89	6.27	6.83
Gybe Angles	148.0°	152.0°	152.0°	160.0°	180.0°	180.0°	180.0°