



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

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6301**
Issued On **08/07/2020**
ORC Ref **53410000221**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 581kg
Maximum **703kg**
Minimum* **527kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	637.9	0.9406
Non Spin OSN	621.4	0.9656

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 76.10**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

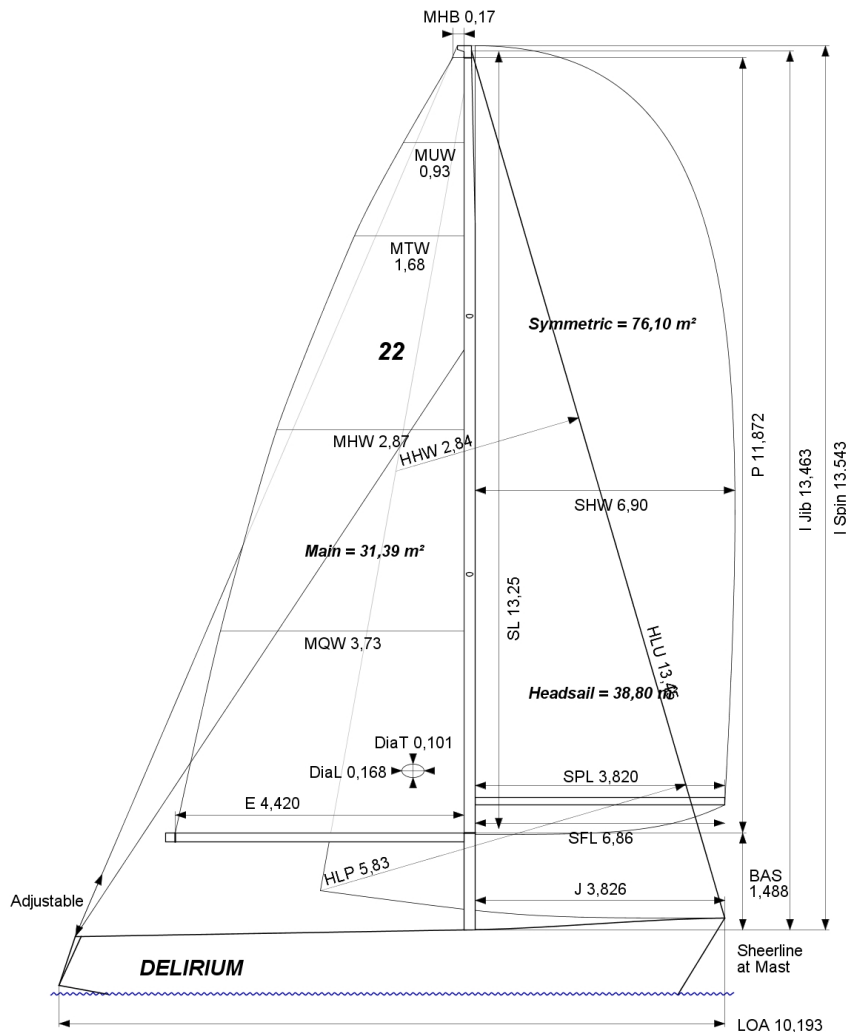
Class Division Length

CDL = 8.990

Stability (Measured)

Limit Positive Stab.: **16.7°**
Stability Index: **12.1**

Owner



BOAT		GPH		HULL		
Name DELIRIUM Sail Nr 22		614.0		Data File US6301	LOA 10.193m	
				Offset File US19426.OFF	MB 3.328m	
				Displacement 3,392kg	Draft 1.892m	
CLASS				IMS Division Performance	Dynamic All. 0.000%	
Class J-33				Plan Review	Construction Cored	
Designer Johnstone				Fiber Rigging No	Aramid Core No	
Builder TPI				Crew Arm Ex 0.00	Carbon Rudder No	
Series 01/1989				Light Stanchions		
Age Date 01/1989				IMSL 9.022m	VCGD 1.331m	
Age Allowance 0.487%				RL 8.964m	VCGM 1.329m	
				WS 20.13m²		
COMMENTS				LSM0 8.877m	Displacement/Length ratio 4.8491	
				Water Ballast 0	Trim Tab No	
				BLR Index 0.0000		
PROPELLER				CENTERBOARD		
Installation Shaft exposed	PRD 0.360	N/A				
Type Folding 2 blades	PBW 0.095					
	PIPA 0.0028					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	597.7			666.5		
Time on Time	1.0039			1.0128		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	693.2	547.2	489.2	891.9	668.1	587.5
Time on Time	0.9738	1.2336	1.3799	0.7568	1.0103	1.1490

2020

ORC Club Certificate Appendix

BOAT			
Name	DELIRIUM	Certificate Number	US6301
Sail Nr	22	Issued On	08/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	980.5	811.9	732.5	705.3	692.7	688.3	678.6
52°	645.7	550.0	518.5	508.0	502.6	499.5	494.4
60°	610.0	534.1	507.1	494.8	488.0	484.1	479.1
75°	584.3	523.3	496.9	476.9	464.2	456.7	449.9
90°	592.4	523.5	495.3	471.5	449.8	433.6	418.2
110°	636.5	532.1	492.9	462.0	437.4	421.9	396.4
120°	655.3	542.6	498.7	465.5	434.2	407.2	371.7
135°	725.8	587.2	521.3	488.2	456.1	425.4	362.5
150°	857.4	680.0	575.2	519.7	489.2	459.8	403.6
Run VMG	990.1	785.2	663.0	587.8	534.9	501.3	446.6
Selected Courses							
Windward / Leeward	985.3	798.6	697.8	646.5	613.8	594.8	562.6
Circular Random	836.5	679.4	596.4	548.6	518.8	498.3	469.2
Coastal / Long Distance	985.8	752.9	634.0	568.9	531.0	500.1	449.2
Non Spinnaker	878.3	709.4	619.0	566.5	533.7	511.4	479.9

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	42.4°	41.3°	39.0°	37.5°	37.1°	36.8°	36.8°
Beat VMG	3.67	4.43	4.91	5.10	5.20	5.23	5.31
52°	5.58	6.54	6.94	7.09	7.16	7.21	7.28
60°	5.90	6.74	7.10	7.28	7.38	7.44	7.51
75°	6.16	6.88	7.24	7.55	7.76	7.88	8.00
90°	6.08	6.88	7.27	7.64	8.00	8.30	8.61
110°	5.66	6.77	7.30	7.79	8.23	8.53	9.08
120°	5.49	6.63	7.22	7.73	8.29	8.84	9.68
135°	4.96	6.13	6.91	7.37	7.89	8.46	9.93
150°	4.20	5.29	6.26	6.93	7.36	7.83	8.92
Run VMG	3.64	4.58	5.43	6.12	6.73	7.18	8.06
Gybe Angles	145.0°	149.0°	151.5°	159.0°	180.0°	180.0°	180.0°