



World Leader in Rating Technology

2019 (Test) ORC Club One Design Certificate

Rating Office

Certificate

Number **J220D**
Issued On **15/01/2019**
ORC Ref **N/A**
VPP Ver. **2019 1.01**

Invalid for Racing

Crew Weight

Default	318kg
Maximum	275kg
Minimum*	190kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	781.0	0.7682
Non Spin OSN	753.6	0.7962

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes** **30.94**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **6.022**

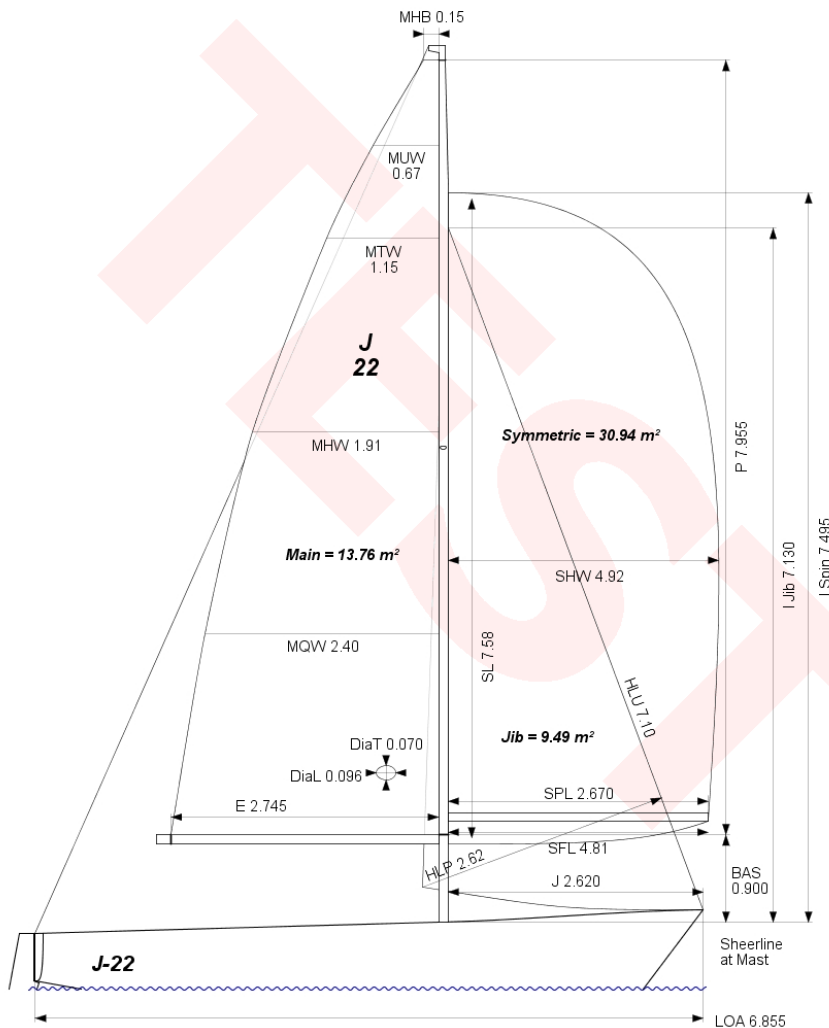
Stability (Estimated)

Limit Positive Stab.: **104.2°**
Stability Index: **95.4**

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH	HULL	
Name	J-22	742.0	Data File	j22 LOA 6.855m
Sail Nr	J-22		Offset File	j22.od MB 2.442m
CLASS			Displacement	857kg Draft 1.179m
Class	J-22 ONE DESIGN		IMS Division	Sportboat Dynamic All. 0.185%
Designer	JOHNSTONE		Fwd Accom.	Yes Construction Solid
Builder	J BOAT		Fiber Rigging	No Aramid Core No
Series	01/2000		Crew Arm Ex	No Carbon Rudder No
Age Date	01/2000			Light Stanchions No
Age Allowance	0.487%		IMSL	6.176m VCGD -0.062m Sink 6.75kg/mm
COMMENTS			RL	5.867m VCGM -0.008m WS 8.70m²
IMS-STD Certificate STANDARD-input FF+FA/2=0.674 m. max. FF=774+/-6 FA=568+/-6			LSM0	5.818m Displacement/Length ratio 4.3517
PROPELLER			Water Ballast	0 Trim Tab No
Type	No Propeller		BLR Index	0.0000
CENTERBOARD			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	719.6			805.1		
Time on Time	0.8338			0.8385		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	849.1	658.9	580.4	1098.8	807.0	709.1
Time on Time	0.7950	1.0244	1.1630	0.6143	0.8364	0.9519



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ORC Club Certificate Appendix

BOAT			
Name	J-22	Certificate Number	J22OD
Sail Nr	J-22	Issued On	15/01/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1280.1	1060.7	938.2	871.7	853.9	851.9	863.3
52°	832.9	698.8	645.3	620.1	607.4	603.2	603.2
60°	786.1	669.5	627.9	603.7	585.9	577.9	577.0
75°	754.6	652.8	613.6	585.4	558.3	538.8	525.5
90°	729.4	629.6	588.6	561.6	545.3	520.4	480.3
110°	723.5	623.9	577.0	532.7	497.3	473.2	436.1
120°	747.6	634.4	586.3	540.1	496.6	455.8	396.7
135°	833.6	686.6	613.2	570.6	527.7	485.0	394.1
150°	992.8	786.4	668.8	608.5	569.1	529.8	451.6
Run VMG	1146.4	907.9	766.3	670.8	616.7	579.4	506.9
Selected Courses							
Windward / Leeward	1213.3	984.3	852.3	771.3	735.3	715.6	685.1
Circular Random	1020.4	825.4	720.5	658.6	619.4	592.4	555.3
Coastal / Long Distance	1206.6	923.4	771.6	681.1	633.5	592.6	521.7
Non Spinnaker	1088.0	873.3	757.1	688.7	646.0	617.5	580.1

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	43.6°	42.7°	40.9°	38.6°	38.4°	38.6°	40.0°
Beat VMG	2.81	3.39	3.84	4.13	4.22	4.23	4.17
52°	4.32	5.15	5.58	5.81	5.93	5.97	5.97
60°	4.58	5.38	5.73	5.96	6.14	6.23	6.24
75°	4.77	5.51	5.87	6.15	6.45	6.68	6.85
90°	4.94	5.72	6.12	6.41	6.60	6.92	7.50
110°	4.98	5.77	6.24	6.76	7.24	7.61	8.25
120°	4.82	5.68	6.14	6.67	7.25	7.90	9.07
135°	4.32	5.24	5.87	6.31	6.82	7.42	9.14
150°	3.63	4.58	5.38	5.92	6.33	6.79	7.97
Run VMG	3.14	3.97	4.70	5.37	5.84	6.21	7.10
Gybe Angles	147.9°	151.5°	153.8°	173.4°	180.0°	180.0°	180.0°