



World Leader in Rating Technology

2019 (Test) ORC Club One Design Certificate

Rating Office

Certificate

Number **H22OD**
 Issued On **15/01/2019**
 ORC Ref **N/A**
 VPP Ver. **2019 1.01**

Invalid for Racing

Crew Weight

Default 355kg
 Maximum **280kg**
 Minimum* **195kg**
*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	688.9	0.8710
Double H.OSN	676.4	0.8871
Non Spin GPH	719.9	0.8334
Non Spin OSN	699.0	0.8584

Sails Limitations

Headsails 1 Spinnakers 3

Asymmetric on centerline

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 52.26**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length

CDL = **6.463**

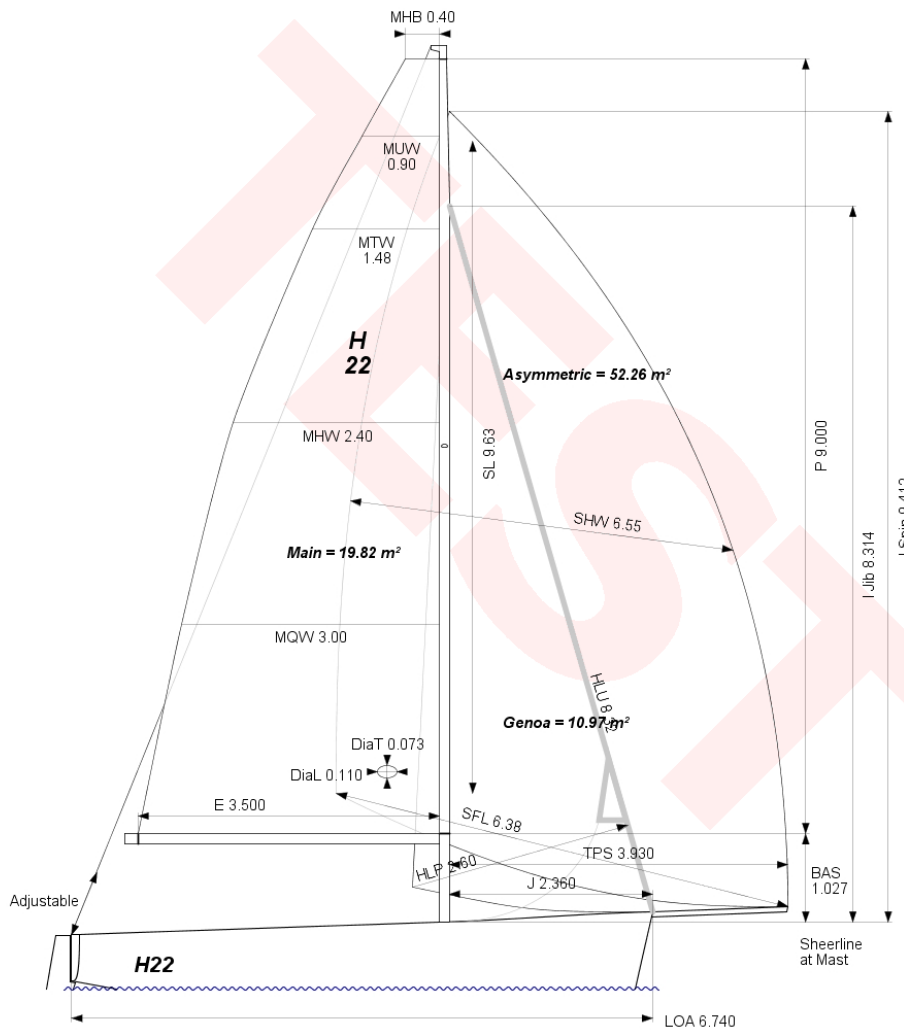
Stability (Estimated)

Limit Positive Stab.: **110.2°**
 Stability Index: **101.5**

Owner

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

Signature



BOAT		GPH		HULL		
Name	H22			Data File	h22	
Sail Nr	H22-			Offset File	h22.od	
				Displacement	789kg	
				LOA	6.740m	
				MB	2.494m	
				Draft	1.516m	
CLASS		674.1		IMS Division	Sportboat	
Class	H22 ONE DESIGN			Dynamic All.	0.000%	
Designer	HUMPHREYS			Fwd Accom.	Yes	
Builder	LION YACHTS SIA			Fiber Rigging	No	
Series	01/2002			Crew Arm Ex	No	
Age Date	06/2004			Carbon Rudder	Yes	
Age Allowance	0.487%			Light Stanchions	No	
COMMENTS				IMSL	6.490m	
BASED ON CLASS RULES				VCGD	-0.100m	
				Sink	7.41kg/mm	
				RL	6.434m	
				VCGM	-0.089m	
				WS	9.26m²	
				LSMO	6.287m	
				Displacement/Length ratio	3.1750	
				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Type No Propeller				N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	659.1			747.0		
Time on Time	0.9104			0.9036		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	747.7	607.5	535.1	953.8	753.5	658.9
Time on Time	0.9028	1.1112	1.2615	0.7077	0.8958	1.0245



2019 (Test)

ORC Club Certificate Appendix

BOAT			
Name	H22	Certificate Number	H22OD
Sail Nr	H22-	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	1111.5	921.9	846.1	832.4	832.1	826.8	839.7
52°	731.5	632.9	600.8	591.4	587.9	583.6	578.3
60°	692.7	616.0	583.4	568.7	561.9	559.3	545.8
75°	667.1	603.4	563.8	531.7	517.0	509.3	494.5
90°	646.6	586.3	558.9	520.0	484.2	463.6	448.1
110°	639.8	568.5	516.3	488.3	463.7	443.5	395.9
120°	654.9	577.8	516.8	465.2	435.4	418.3	368.6
135°	727.8	611.6	552.5	495.8	438.7	387.0	308.4
150°	857.0	685.9	608.2	560.2	509.4	456.5	323.3
Run VMG	989.6	792.0	701.9	646.9	588.2	527.1	373.4

Selected Courses							
Windward / Leeward	1050.5	857.0	774.0	739.7	710.2	677.0	606.6
Circular Random	905.7	742.3	656.5	606.0	572.0	545.4	500.4
Coastal / Long Distance	1044.4	808.9	701.9	637.9	593.0	551.6	471.9
Non Spinnaker	987.7	799.2	698.9	640.6	603.6	577.5	539.8

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	42.3°	40.8°	38.1°	38.2°	38.6°	38.8°	40.4°
Beat VMG	3.24	3.90	4.26	4.32	4.33	4.35	4.29
52°	4.92	5.69	5.99	6.09	6.12	6.17	6.22
60°	5.20	5.84	6.17	6.33	6.41	6.44	6.60
75°	5.40	5.97	6.39	6.77	6.96	7.07	7.28
90°	5.57	6.14	6.44	6.92	7.43	7.77	8.03
110°	5.63	6.33	6.97	7.37	7.76	8.12	9.09
120°	5.50	6.23	6.97	7.74	8.27	8.61	9.77
135°	4.95	5.89	6.52	7.26	8.21	9.30	11.67
150°	4.20	5.25	5.92	6.43	7.07	7.89	11.13
Run VMG	3.64	4.55	5.13	5.57	6.12	6.83	9.64
Gybe Angles	144.8°	148.8°	150.9°	147.9°	144.7°	143.8°	142.6°