

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **072/20**
Issued On **30/09/2020**
ORC Ref **02920000R5Q**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 616kg
Maximum **680kg**
Minimum* **510kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	635.6	0.9440
Non Spin OSN	618.1	0.9708

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **91.53**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

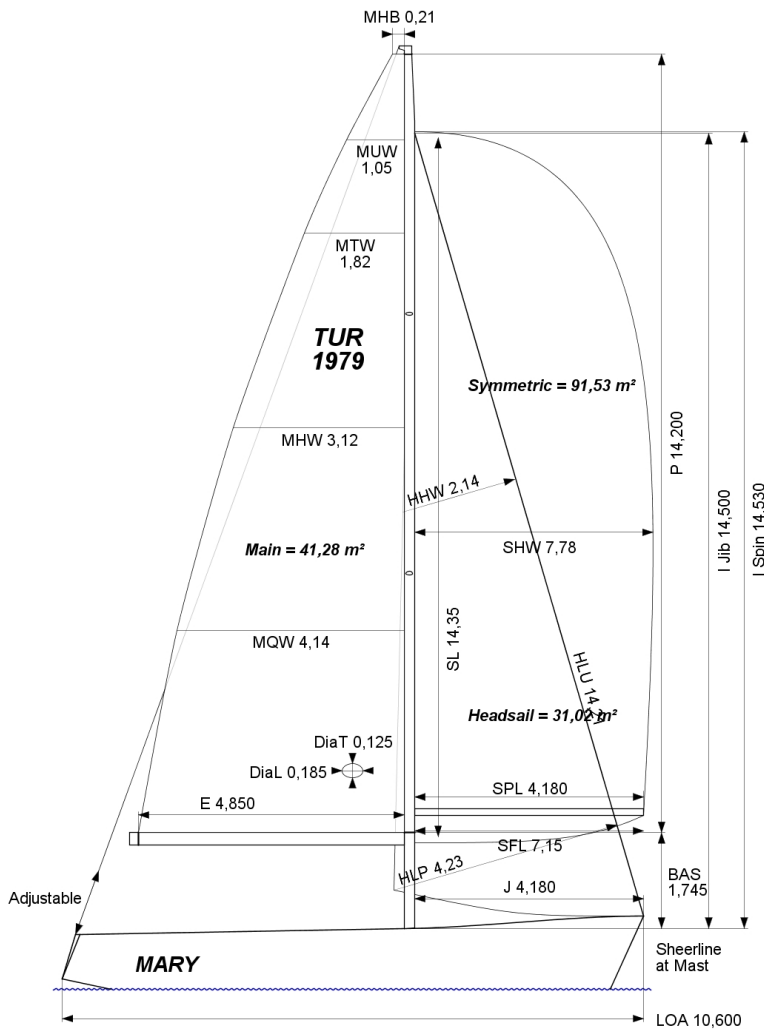
Class Division Length

CDL = 9.261

Stability (Estimated)

Limit Positive Stab.: **115.9°**
Stability Index: **116.5**

Owner



BOAT		GPH	HULL			
Name MARY Sail Nr TUR-1979		604.5	Data File tur19791	LOA 10.600m		
			Offset File x35.OD.off	MB 3.250m		
			Displacement 4,452kg	Draft 2.171m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.000%		
Class X-35 OD			Plan Review	Construction Cored		
Designer JEPPESEN			Fiber Rigging No	Aramid Core No		
Builder X-YACHTS			Crew Arm Ex	Carbon Rudder No		
Series 09/2005				Light Stanchions No		
Age Date 09/2006			IMSL 9.438m	VCGD 0.060m	Sink 17.56kg/mm	
Age Allowance 0.487%			RL 9.100m	VCGM 0.052m	WS 22.83m²	
COMMENTS			LSM0 9.256m	Displacement/Length ratio 5.6142		
O.D. TRIM PLUS TABLE AND CUSHIONS LESS ANCHOR			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.420	NA				
Type Folding 2 blades	PBW 0.128					
	PIPA 0.0033					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	588.7			655.4		
Time on Time	1.0193			1.0299		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	682.6	538.3	484.3	878.1	656.9	578.5
Time on Time	0.9888	1.2539	1.3938	0.7687	1.0276	1.1668

2020

ORC Club Certificate Appendix

BOAT	
Name MARY	Certificate Number 072/20
Sail Nr TUR-1979	Issued On 30/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	988.7	817.6	728.1	700.0	689.6	680.8	674.1
52°	651.6	551.9	512.0	500.0	495.3	493.1	485.6
60°	617.8	533.2	500.6	487.3	481.9	479.2	470.0
75°	592.2	520.9	491.9	473.1	461.0	455.1	449.3
90°	598.8	519.1	489.7	470.1	450.2	434.4	419.7
110°	606.1	513.8	478.1	451.6	434.8	421.3	402.2
120°	624.4	522.7	483.5	453.5	425.5	404.5	378.4
135°	692.3	563.8	504.9	474.4	445.6	418.1	360.2
150°	821.3	656.1	557.0	504.7	476.0	449.3	398.2
Run VMG	948.3	757.6	642.1	570.4	519.5	487.5	436.9
Selected Courses							
Windward / Leeward	968.5	787.6	685.1	635.2	604.5	584.1	555.5
Circular Random	823.1	668.5	587.0	540.5	512.0	492.9	466.5
Coastal / Long Distance	966.5	741.7	622.2	559.4	523.8	494.2	447.0
Non Spinnaker	879.6	708.2	616.3	563.0	530.1	508.2	479.7

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°	40.9°	39.0°	38.1°	37.5°	37.3°	37.5°
Beat VMG	3.64	4.40	4.94	5.14	5.22	5.29	5.34
52°	5.52	6.52	7.03	7.20	7.27	7.30	7.41
60°	5.83	6.75	7.19	7.39	7.47	7.51	7.66
75°	6.08	6.91	7.32	7.61	7.81	7.91	8.01
90°	6.01	6.94	7.35	7.66	8.00	8.29	8.58
110°	5.94	7.01	7.53	7.97	8.28	8.54	8.95
120°	5.77	6.89	7.45	7.94	8.46	8.90	9.51
135°	5.20	6.39	7.13	7.59	8.08	8.61	9.99
150°	4.38	5.49	6.46	7.13	7.56	8.01	9.04
Run VMG	3.80	4.75	5.61	6.31	6.93	7.38	8.24
Gybe Angles	142.0°	148.0°	151.5°	159.0°	180.0°	180.0°	180.0°