



ORC

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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6492**
Issued On **31/07/2020**
ORC Ref **03410000NJK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 570kg
Maximum **570kg**
Minimum* **428kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	619.4	0.9687
Non Spin OSN	604.2	0.9931

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 65.51**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

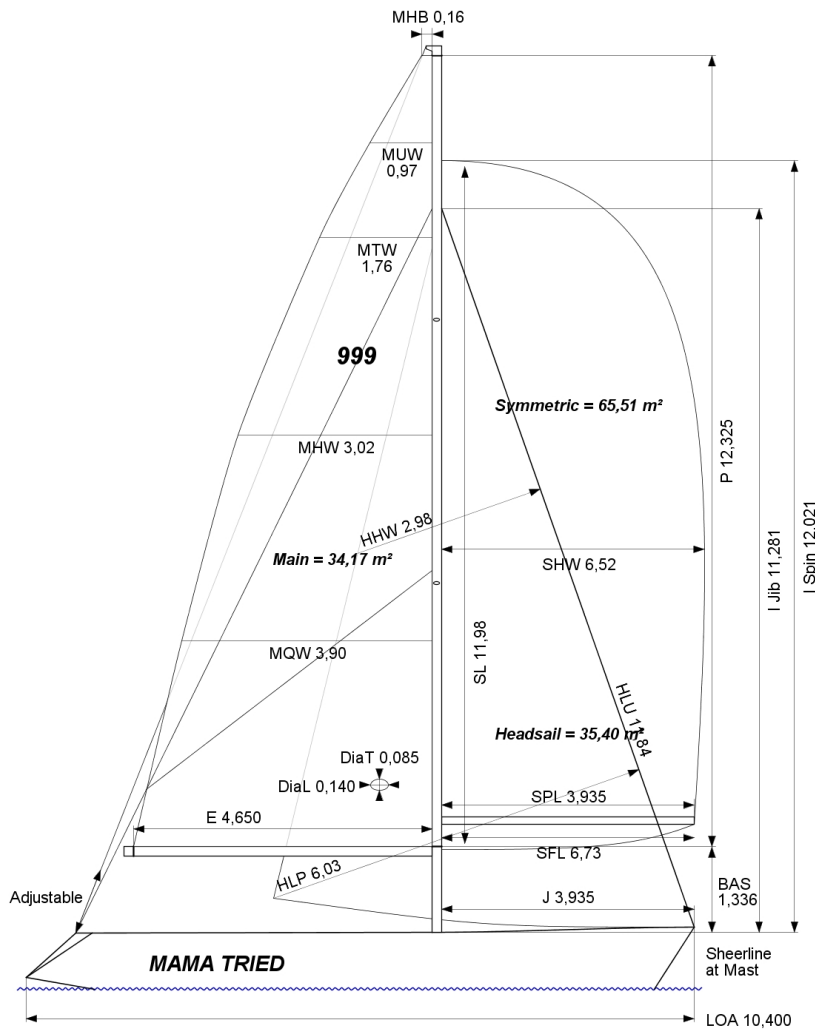
Class Division Length

CDL = 9.156

Stability (Estimated)

Limit Positive Stab.: **115.6°**
Stability Index: **111.6**

Owner



BOAT Name MAMA TRIED Sail Nr 999	GPH 598.3	HULL Data File US6492a LOA 10.400m Offset File H160_USA999.off MB 3.064m Displacement 2,861kg Draft 1.809m
CLASS Class First Class 10 Designer Finot Builder Beneteau Series 01/1983 Age Date 12/1984 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.079m VCGD -0.373m Sink 14.45kg/mm RL 9.233m VCGM -0.100m WS 19.48m² LSM0 8.758m Displacement/Length ratio 4.2590
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	582.8	655.6
Time on Time	1.0296	1.0295
Triple Number	Low Medium High	Low Medium High
Time on Distance	679.3 532.7 470.4	881.2 658.2 576.2
Time on Time	0.9936 1.2672 1.4349	0.7660 1.0255 1.1715

2020

ORC Club Certificate Appendix

BOAT							
Name	MAMA TRIED	Certificate Number	US6492				
Sail Nr	999	Issued On	31/07/2020				

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	960.3	790.5	722.3	694.9	681.4	678.0	671.0
52°	627.6	533.9	505.7	494.8	488.4	484.1	477.1
60°	591.0	518.4	492.1	478.6	470.1	464.7	457.1
75°	564.1	507.8	478.8	454.8	441.6	433.4	425.3
90°	567.9	506.6	476.3	446.8	422.7	405.7	389.7
110°	619.3	516.8	475.8	439.0	409.9	391.8	362.8
120°	640.6	527.0	483.4	445.4	409.8	377.1	337.8
135°	716.3	574.2	509.3	474.1	438.8	404.7	335.6
150°	857.9	678.6	568.3	509.3	476.2	443.6	381.1
Run VMG	990.7	783.6	656.2	577.7	524.8	489.7	430.0
Selected Courses							
Windward / Leeward	975.5	787.0	689.2	636.3	603.1	583.9	550.5
Circular Random	819.4	664.0	581.1	532.6	501.7	480.0	448.8
Coastal / Long Distance	977.0	741.2	623.3	554.8	514.2	480.3	424.9
Non Spinnaker	855.5	690.1	601.1	548.7	515.4	492.3	459.3

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	43.1°	42.0°	39.8°	38.3°	37.7°	37.7°	37.7°
Beat VMG	3.75	4.55	4.98	5.18	5.28	5.31	5.37
52°	5.74	6.74	7.12	7.28	7.37	7.44	7.55
60°	6.09	6.95	7.32	7.52	7.66	7.75	7.88
75°	6.38	7.09	7.52	7.92	8.15	8.31	8.47
90°	6.34	7.11	7.56	8.06	8.52	8.87	9.24
110°	5.81	6.97	7.57	8.20	8.78	9.19	9.92
120°	5.62	6.83	7.45	8.08	8.79	9.55	10.66
135°	5.03	6.27	7.07	7.59	8.20	8.90	10.73
150°	4.20	5.31	6.33	7.07	7.56	8.12	9.45
Run VMG	3.63	4.59	5.49	6.23	6.86	7.35	8.37
Gybe Angles	140.5°	147.5°	150.0°	157.5°	180.0°	180.0°	180.0°