



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6371**
Issued On **11/01/2021**
ORC Ref **03410000TLV**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

Crew Weight

Default 844kg
Maximum **844kg**
Minimum* **633kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	576.8	1.0402
Non Spin OSN	563.0	1.0657

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 184.97**
Flying H/S: **No**
Spin. Pole: **No**

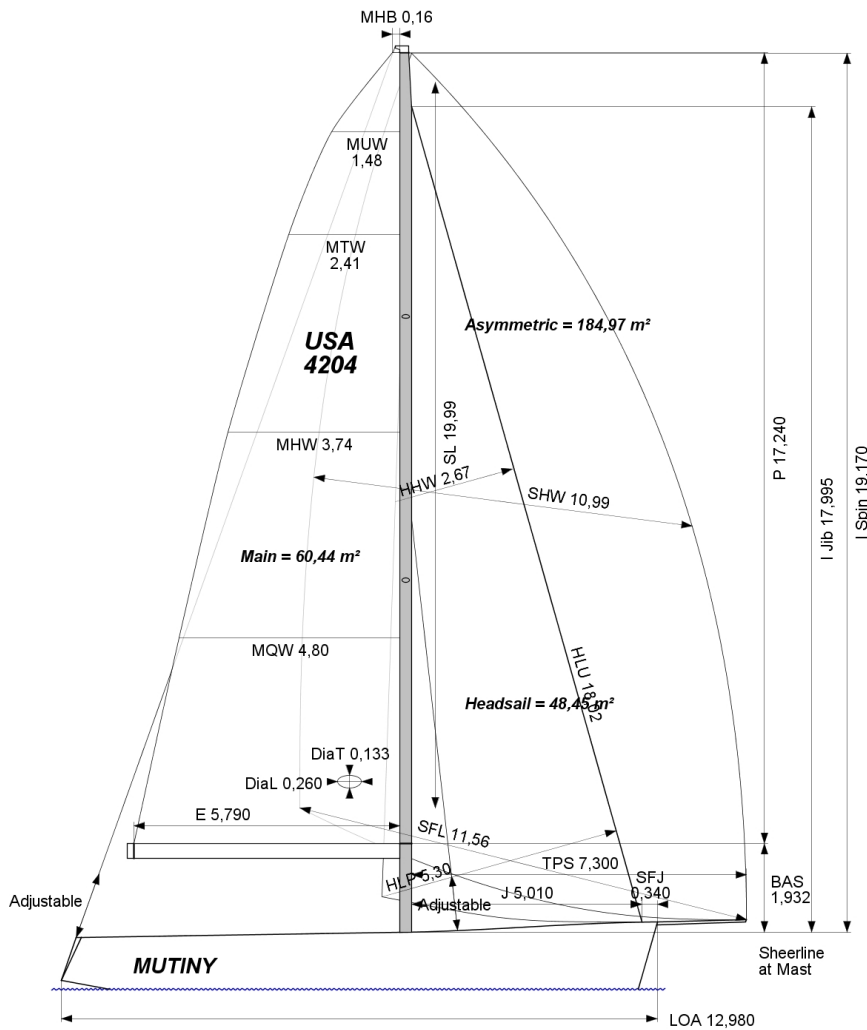
Class Division Length

CDL = 11.530

Stability (Measured)

Limit Positive Stab.: **135.9°**
Stability Index: **138.4**

Owner



BOAT		GPH	HULL			
Name MUTINY		539.4	Data File US6371	LOA 12.980m		
Sail Nr USA 4204			Offset File SWAN42CLUB.O	MB 3.910m		
			Displacement 7,589kg	Draft 2.738m		
CLASS			IMS Division Performance	Dynamic All. 0.000%		
Class SWAN 42 NYYC			Plan Review	Construction Cored		
Designer FRERS			Fiber Rigging No	Aramid Core No		
Builder SWAN			Crew Arm Ex	Carbon Rudder No		
Series 11/2006				Light Stanchions		
Age Date 11/2006			IMSL 11.838m	VCGD -0.357m	Sink 24.24kg/mm	
Age Allowance 0.455%			RL 11.232m	VCGM -0.366m	WS 32.91m²	
COMMENTS			LSM0 11.539m	Displacement/Length ratio 4.9395		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.430		N/A			
Type Folding 2 blades	PBW 0.109					
	PIPA 0.0041					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	525.5			589.7		
Time on Time	1.1419			1.1447		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	604.9	481.5	433.7	778.2	591.2	525.4
Time on Time	1.1159	1.4018	1.5564	0.8674	1.1417	1.2847

2020

ORC Club Certificate Appendix

BOAT			
Name	MUTINY	Certificate Number	US6371
Sail Nr	USA 4204	Issued On	11/01/2021

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	881.0	727.0	656.7	630.0	617.5	605.8	595.8
52°	580.7	490.7	459.1	448.5	443.3	440.4	432.2
60°	550.2	473.8	448.0	436.8	431.0	427.5	418.8
75°	526.9	463.2	438.9	423.1	411.4	404.5	397.9
90°	531.9	464.0	437.9	419.2	401.4	386.4	369.0
110°	535.2	455.2	425.5	409.2	395.2	381.2	356.0
120°	548.5	459.7	427.0	400.0	380.4	365.0	337.1
135°	609.6	490.9	443.4	415.7	387.1	358.8	306.6
150°	724.4	578.7	491.4	445.7	424.6	403.1	349.2
Run VMG	836.5	668.2	567.5	514.2	489.2	459.6	403.2
Selected Courses							
Windward / Leeward	858.7	697.6	612.1	572.1	553.3	532.7	499.5
Circular Random	731.5	595.2	523.9	483.6	458.6	441.0	414.3
Coastal / Long Distance	856.5	656.9	555.4	500.4	471.4	444.1	397.6
Non Spinnaker	800.4	643.9	559.4	509.7	478.4	457.0	428.2

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	42.0°	40.5°	39.0°	37.7°	37.5°	36.8°	36.8°
Beat VMG	4.09	4.95	5.48	5.71	5.83	5.94	6.04
52°	6.20	7.34	7.84	8.03	8.12	8.17	8.33
60°	6.54	7.60	8.04	8.24	8.35	8.42	8.60
75°	6.83	7.77	8.20	8.51	8.75	8.90	9.05
90°	6.77	7.76	8.22	8.59	8.97	9.32	9.76
110°	6.73	7.91	8.46	8.80	9.11	9.44	10.11
120°	6.56	7.83	8.43	9.00	9.46	9.86	10.68
135°	5.91	7.33	8.12	8.66	9.30	10.03	11.74
150°	4.97	6.22	7.33	8.08	8.48	8.93	10.31
Run VMG	4.30	5.39	6.34	7.00	7.36	7.83	8.93
Gybe Angles	143.0°	145.0°	149.0°	152.0°	151.5°	176.0°	143.5°