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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6415**
Issued On **08/06/2020**
ORC Ref **5341000020U**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 705kg
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **617.6 0.9715**
Non Spin OSN **600.8 0.9986**

Sails Limitations

Headsails **6** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 129.94**
Flying H/S: **No**
Spin. Pole: **No**

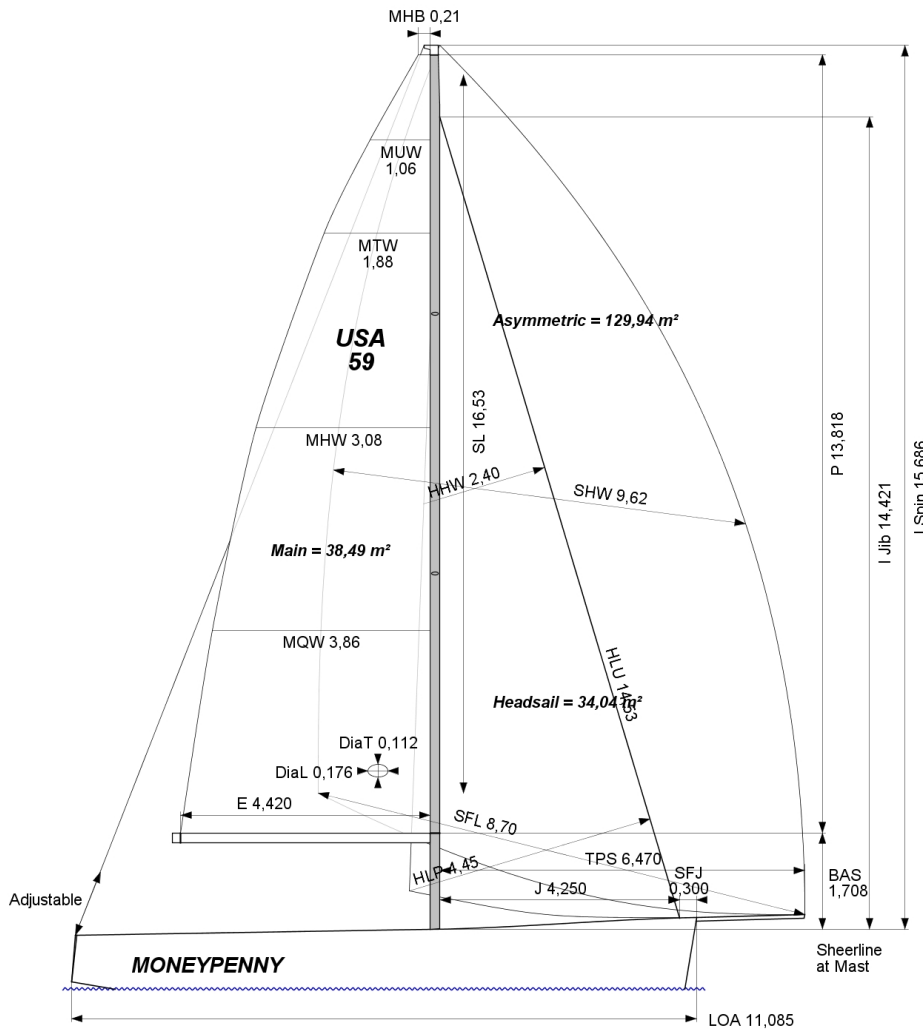
Class Division Length

CDL = 10.126

Stability (Measured)

Limit Positive Stab.: **123.7°**
Stability Index: **124.2**

Owner



BOAT Name MONEYPENNY Sail Nr USA 59		GPH 574.7	HULL Data File US6415 LOA 11.085m Offset File J111eu-v.OFF MB 3.266m Displacement 4,398kg Draft 2.216m			
CLASS Class J 111 Designer Johnstone Builder J/Boats Europe Series 01/2010 Age Date 01/2011 Age Allowance 0.325%		IMS Division Cruiser/Racer Dynamic All. 0.084% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder No Light Stanchions No				
COMMENTS		IMSL 10.436m VCGD -0.128m Sink 18.27kg/mm RL 9.831m VCGM -0.151m WS 23.90m² LSM0 10.164m Displacement/Length ratio 4.1885 Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Strut PRD 0.413 Type Folding 2 blades PBW 0.098 PIPA 0.0032		BILGEBOARD BS BT BA BF BX BC BY				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE		WINDWARD / LEEWARD			
Time on Distance	559.3		629.6			
Time on Time	1.0728		1.0721			
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	649.6	511.5	457.7	837.3	629.5	557.0
Time on Time	1.0391	1.3197	1.4748	0.8062	1.0723	1.2119

2020

ORC Club Certificate Appendix

BOAT			
Name	MONEYPENNY	Certificate Number	US6415
Sail Nr	USA 59	Issued On	08/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	965.4	790.3	702.4	673.5	661.7	652.5	640.1
52°	633.0	528.9	490.3	478.2	472.8	470.0	460.9
60°	598.1	509.6	478.4	465.1	458.8	455.3	445.5
75°	571.3	497.0	468.7	450.0	436.3	428.7	422.1
90°	577.9	491.6	468.0	446.3	424.9	407.8	389.1
110°	566.5	481.2	448.8	429.2	413.4	397.5	369.6
120°	579.2	486.1	450.1	418.1	395.6	378.0	346.5
135°	647.8	519.1	468.8	436.3	402.5	368.6	310.6
150°	768.3	611.7	518.0	471.9	447.9	423.5	353.0
Run VMG	887.1	706.3	598.2	544.4	517.2	484.4	407.6
Selected Courses							
Windward / Leeward	926.3	748.3	650.3	608.9	589.4	568.5	523.9
Circular Random	784.4	635.9	557.9	513.5	485.7	465.7	434.0
Coastal / Long Distance	922.4	703.6	590.1	531.6	499.9	470.3	415.9
Non Spinnaker	863.4	691.4	598.4	543.8	509.6	486.4	455.0

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	42.8°	41.3°	39.8°	38.3°	37.9°	37.5°	37.5°
Beat VMG	3.73	4.56	5.13	5.35	5.44	5.52	5.62
52°	5.69	6.81	7.34	7.53	7.61	7.66	7.81
60°	6.02	7.06	7.53	7.74	7.85	7.91	8.08
75°	6.30	7.24	7.68	8.00	8.25	8.40	8.53
90°	6.23	7.32	7.69	8.07	8.47	8.83	9.25
110°	6.35	7.48	8.02	8.39	8.71	9.06	9.74
120°	6.22	7.41	8.00	8.61	9.10	9.52	10.39
135°	5.56	6.93	7.68	8.25	8.94	9.77	11.59
150°	4.69	5.89	6.95	7.63	8.04	8.50	10.20
Run VMG	4.06	5.10	6.02	6.61	6.96	7.43	8.83
Gybe Angles	143.0°	146.0°	149.0°	151.5°	149.0°	176.0°	142.3°