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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6029**
Issued On **14/09/2020**
ORC Ref **0341000QAD**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 915kg
Maximum **1,025kg**
Minimum* **769kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	592.7	1.0123
Non Spin OSN	576.9	1.0401

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 140.36**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

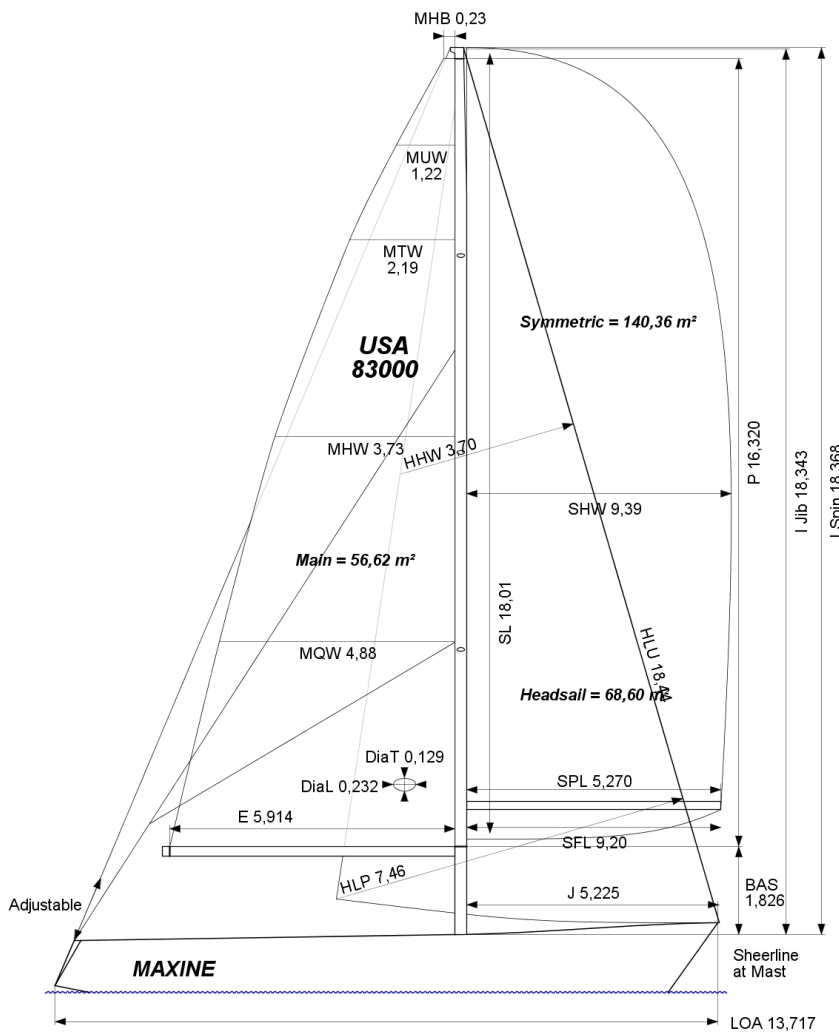
Class Division Length

CDL = 11.521

Stability (Measured)

Limit Positive Stab.: **114.3°**
Stability Index: **119.3**

Owner



BOAT	GPH	HULL
Name MAXINE Sail Nr USA 83000	568.1	Data File US6029 LOA 13.717m Offset File US19698.OFF MB 4.206m Displacement 10,414kg Draft 2.446m
CLASS Class J-44 Designer JOHNSTONE Builder TILLOTSON/PEARSO Series 06/1989, CIN 11 Age Date 07/1990 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.030% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder No Light Stanchions
COMMENTS		IMSL 12.152m VCGD -0.050m Sink 29.34kg/mm RL 10.891m VCGM -0.047m WS 39.10m² LSM0 12.210m Displacement/Length ratio 5.7210
PROPELLER Installation Shaft exposed PRD 0.457 Type Folding 3 blades PBW 0.150 PIPA 0.0053		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	551.9	614.7
Time on Time	1.0871	1.0981
Triple Number	Low Medium High	Low Medium High
Time on Distance	653.2 502.6 447.1	845.3 619.4 532.4
Time on Time	1.0334 1.3429 1.5097	0.7985 1.0898 1.2679

2020

ORC Club Certificate Appendix

BOAT			
Name	MAXINE	Certificate Number	US6029
Sail Nr	USA 83000	Issued On	14/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	929.8	768.3	679.0	639.8	621.4	610.9	600.6
52°	610.5	512.6	468.0	452.4	445.8	442.1	439.1
60°	576.9	491.2	456.6	442.2	435.3	431.1	427.0
75°	551.6	477.6	448.5	433.0	421.8	414.1	406.0
90°	557.5	479.6	447.9	430.7	416.6	403.7	384.5
110°	601.7	494.0	447.8	425.6	407.5	393.9	374.7
120°	618.9	505.8	453.2	428.5	407.8	387.6	359.2
135°	686.1	553.8	478.6	444.0	422.7	401.8	361.0
150°	814.0	643.7	543.6	480.5	446.3	425.8	386.9
Run VMG	939.9	743.3	627.6	550.6	500.4	461.3	418.6
Selected Courses							
Windward / Leeward	934.8	755.8	653.3	595.2	560.9	536.1	509.6
Circular Random	784.0	632.3	551.0	503.9	474.9	455.8	431.5
Coastal / Long Distance	935.3	710.7	589.2	520.3	484.5	456.5	414.1
Non Spinnaker	827.5	663.5	574.4	521.9	489.2	467.6	439.9

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°	40.5°	39.0°	37.9°	37.1°	36.8°
Beat VMG	3.87	4.69	5.30	5.63	5.79	5.89	5.99
52°	5.90	7.02	7.69	7.96	8.08	8.14	8.20
60°	6.24	7.33	7.88	8.14	8.27	8.35	8.43
75°	6.53	7.54	8.03	8.31	8.53	8.69	8.87
90°	6.46	7.51	8.04	8.36	8.64	8.92	9.36
110°	5.98	7.29	8.04	8.46	8.83	9.14	9.61
120°	5.82	7.12	7.94	8.40	8.83	9.29	10.02
135°	5.25	6.50	7.52	8.11	8.52	8.96	9.97
150°	4.42	5.59	6.62	7.49	8.07	8.45	9.30
Run VMG	3.83	4.84	5.74	6.54	7.19	7.80	8.60
Gybe Angles	142.0°	148.0°	150.0°	154.0°	162.0°	180.0°	180.0°