



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6140**
Issued On **11/11/2020**
ORC Ref **03410000SR4**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 959kg
Maximum **959kg**
Minimum* **719kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	610.3	0.9831
Non Spin OSN	596.5	1.0059

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 142.74**
Flying H/S: **No**
Spin. Pole: **No**

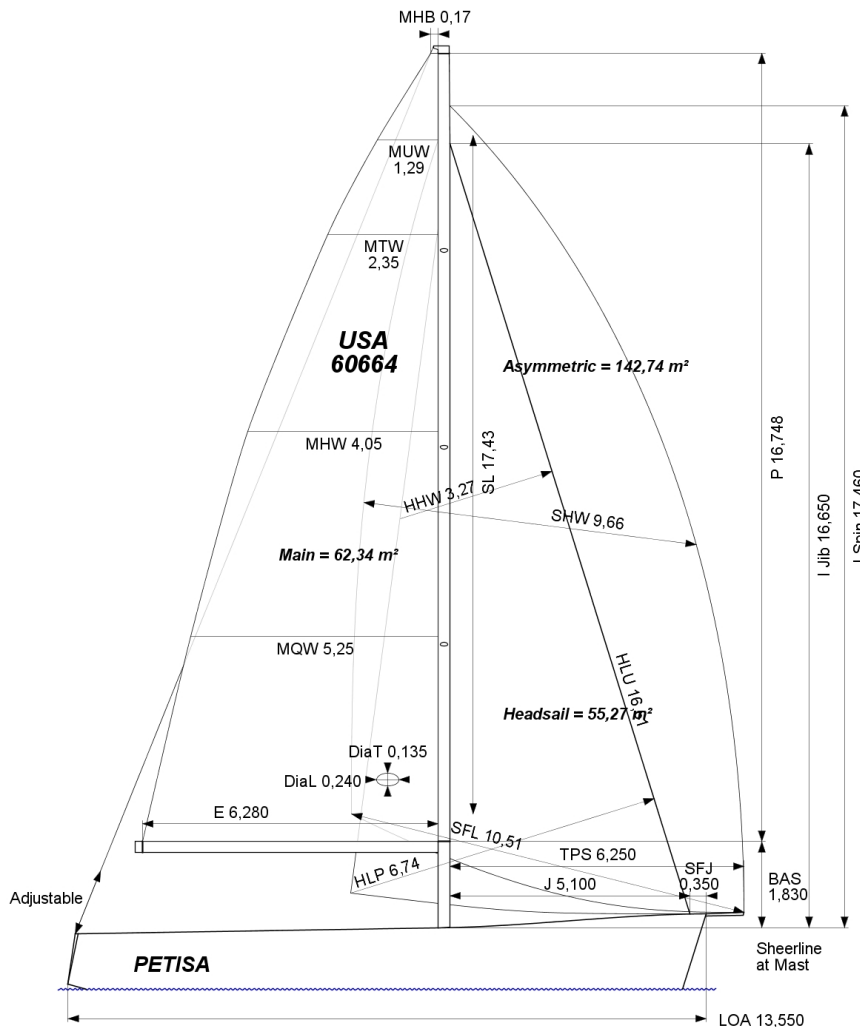
Class Division Length

CDL = 10.893

Stability (Measured)

Limit Positive Stab.: **103.8°**
Stability Index: **109.7**

Owner



BOAT		GPH	HULL			
Name PETISA	Sail Nr USA 60664	578.8	Data File us6140	LOA 13.550m		
CLASS			Offset File S44SD.off	MB 4.176m		
Class SALONA 44	Designer Jakopin		Displacement 10,832kg	Draft 1.865m		
Builder AD Boats	Series 01/2011		IMS Division Cruiser/Racer	Dynamic All. 0.111%		
Age Date 01/2015	Age Allowance 0.292%		Plan Review	Construction Cored		
COMMENTS			Fiber Rigging No	Aramid Core No		
re-issue certificate run 5 nov20			Crew Arm Ex	Carbon Rudder No		
PROPELLER				Light Stanchions No		
Installation Strut	PRD 0.462		IMSL 12.648m	VCGD 0.316m		
Type Feathering 2 blades	PIPA 0.0038		RL 9.145m	VCGM 0.261m		
SCORING OPTIONS			LSM0 12.620m	Displacement/Length ratio 5.3893		
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	566.4			644.2		
Time on Time	1.0593			1.0479		
	Triple Number	Low	Medium	High	Low	Medium
Time on Distance	661.6	512.5	461.6	870.5	646.3	567.9
Time on Time	1.0203	1.3171	1.4622	0.7754	1.0444	1.1886
CENTERBOARD			N/A			

2020

ORC Club Certificate Appendix

BOAT	
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1015.2	836.4	740.1	698.3	678.6	669.7	661.6
52°	648.3	541.9	485.9	465.0	456.3	452.3	448.6
60°	601.4	509.7	465.0	447.5	440.4	436.7	434.3
75°	564.0	483.3	450.2	433.9	423.9	418.0	412.5
90°	542.3	464.4	435.1	420.1	410.1	402.4	388.4
110°	556.2	469.7	435.7	416.0	397.7	381.0	356.5
120°	585.0	486.6	443.4	420.6	400.6	380.8	352.1
135°	662.6	537.7	467.0	435.1	414.8	394.3	353.5
150°	786.2	625.8	530.8	471.9	443.8	425.9	394.9
Run VMG	907.8	722.6	612.9	544.9	510.5	476.8	427.8
Selected Courses							
Windward / Leeward	961.5	779.5	676.5	621.6	594.6	573.3	544.7
Circular Random	794.8	642.4	561.4	515.3	487.6	469.7	446.6
Coastal / Long Distance	956.1	727.9	604.1	534.2	498.5	469.4	422.7
Non Spinnaker	853.5	683.6	591.3	537.0	503.6	482.1	456.1

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	45.4°	44.3°	43.5°	42.8°	42.4°	42.0°	42.0°
Beat VMG	3.55	4.30	4.86	5.16	5.30	5.38	5.44
52°	5.55	6.64	7.41	7.74	7.89	7.96	8.02
60°	5.99	7.06	7.74	8.05	8.18	8.24	8.29
75°	6.38	7.45	8.00	8.30	8.49	8.61	8.73
90°	6.64	7.75	8.27	8.57	8.78	8.95	9.27
110°	6.47	7.66	8.26	8.65	9.05	9.45	10.10
120°	6.15	7.40	8.12	8.56	8.99	9.45	10.22
135°	5.43	6.69	7.71	8.27	8.68	9.13	10.18
150°	4.58	5.75	6.78	7.63	8.11	8.45	9.12
Run VMG	3.97	4.98	5.87	6.61	7.05	7.55	8.41
Gybe Angles	143.0°	147.5°	148.5°	149.8°	151.5°	175.5°	178.0°