



ORC

Offshore Racing Congress
World leader in rating technology

2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress

COPY ONLY
Invalid for
Racing

World Leader In Rating Technology

Certificate

Number **US6140**
Issued On **11/01/2021**
ORC Ref **03410000TLW**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

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**

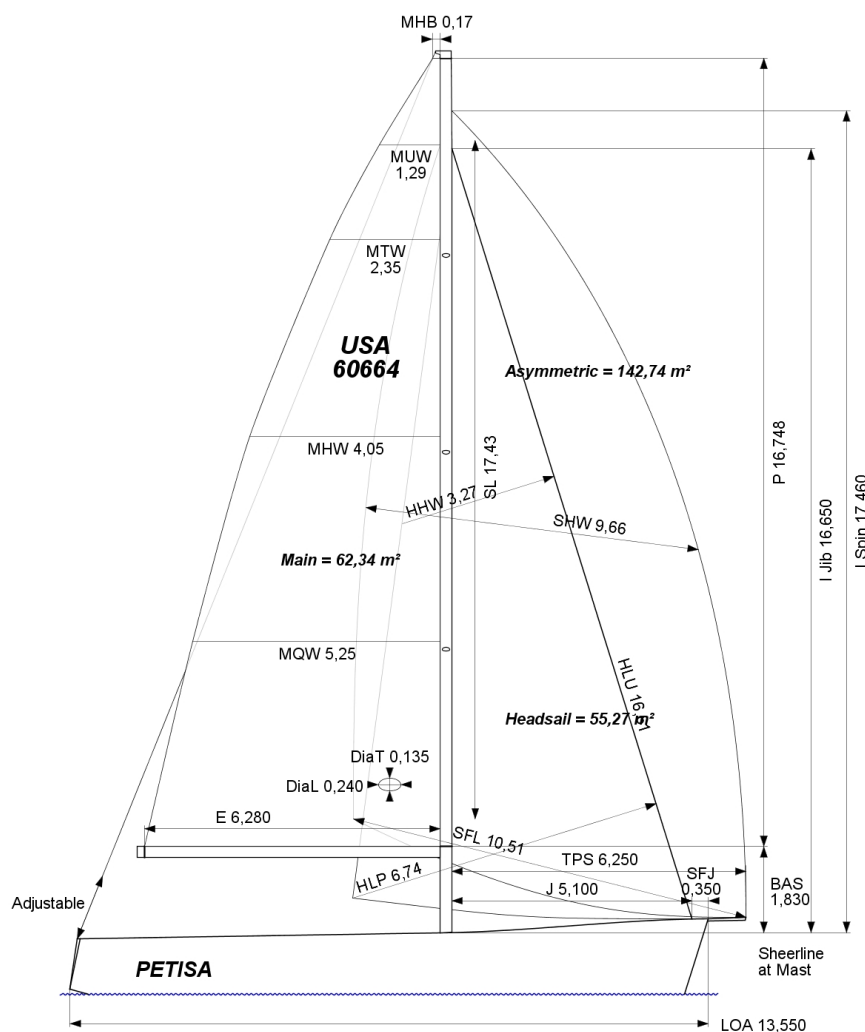
Class Division Length

CDL = 10.893

Stability (Measured)

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

Owner



BOAT		GPH		HULL	
Name PETISA		578.8		Data File	us6140 LOA 13.550m
Sail Nr USA 60664				Offset File	S44SD.off MB 4.176m
				Displacement	10,832kg Draft 1.865m
CLASS				IMS Division	Cruiser/Racer Dynamic All. 0.111%
Class SALONA 44				Plan Review	Construction Cored
Designer Jakopin				Fiber Rigging	No Aramid Core No
Builder AD Boats				Crew Arm Ex	Carbon Rudder No
Series 01/2011					Light Stanchions No
Age Date 01/2015				IMSL	12.648m VCGD 0.316m Sink 30.07kg/mm
Age Allowance 0.292%				RL	9.145m VCGM 0.261m WS 38.48m
COMMENTS				LSM0	12.620m Displacement/Length ratio 5.3893
re-issue certificate run 5 nov20				Water Ballast	0 Trim Tab No
				BLR Index	0.0000
PROPELLER				CENTERBOARD	
Installation Strut		PRD	0.462	N/A	
Type Feathering 2 blades		PIPA	0.0038		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	566.4			644.2		
Time on Time	1.0593			1.0479		
Triple Number	Low	Medium	High	Low	Medium	High
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

2020

ORC Club Certificate Appendix

BOAT			
Name	PETISA	Certificate Number	US6140
Sail Nr	USA 60664	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	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°