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2020
International
Double Handed

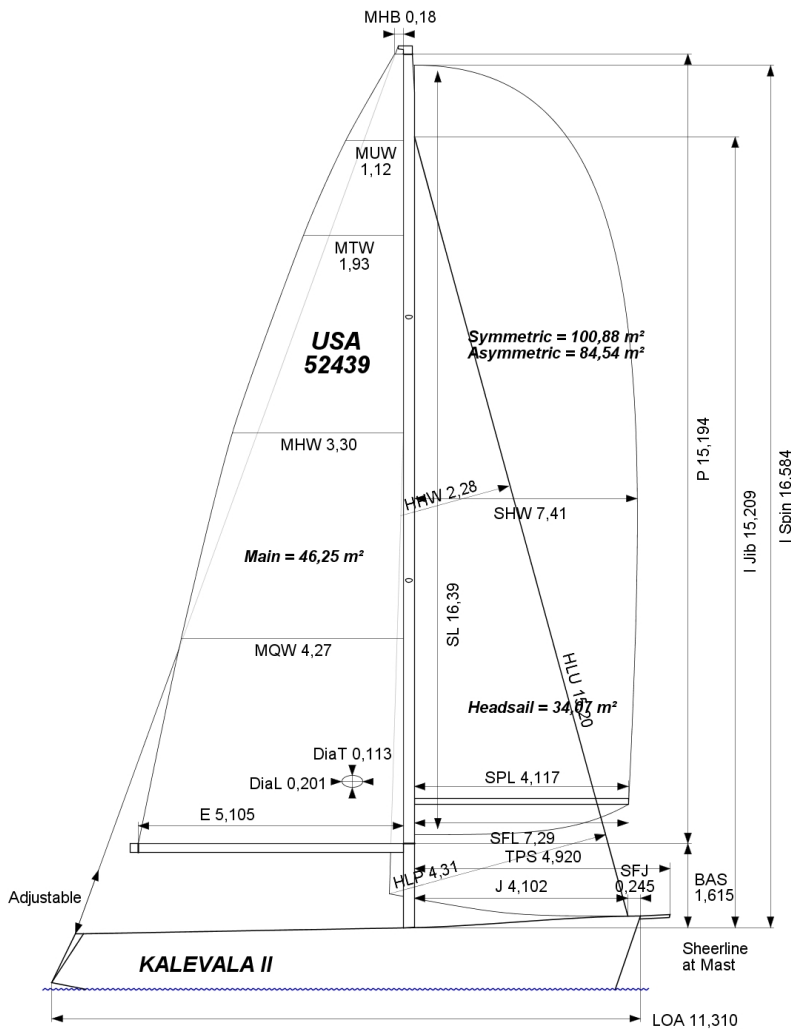
Rating Office

Offshore
Racing
Congress



Certificate

Number **US6129**
Issued On **11/09/2020**
ORC Ref **0341000Q8S**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT	
Name	KALEVALA II
Sail Nr	USA-52439

GPH	
	620.8

HULL	
Data File	US6129DH
Offset File	GS37BC.OFF
Displacement	7,383kg
LOA	11.310m
MB	3.672m
Draft	2.335m

Crew Weight	
Default	170kg
Maximum	170kg
Non Manual Pwr	No

CLASS	
Class	GRAND SOLEIL 37 BC
Designer	BOTIN/CARKEEK
Builder	DEL PARDO
Series	05/2005
Age Date	07/2005
Age Allowance	0.487%

IMS Division	Cruiser/Racer	Dynamic All.	0.217%
Fiber Rigging	No	Construction	Solid
Crew Arm Ex	0.00	Aramid Core	No
		Carbon Rudder	Yes
		Light Stanchions	No

Sails Limitations	
Headsails	5
Spinnakers	4

COMMENTS	
15L H2O, 145L FUEL DATA FROM ORR41529 UPDATED FULL MSMT 2017	

IMSL	10.420m	VCGD	0.214m	Sink	22.52kg/mm
RL	8.371m	VCGM	0.118m	WS	28.93m²
LSM0	10.237m	Displacement/Length ratio	6.8820		

Spinnaker configuration	
Symmetric	Yes 100.88
Asymmetric	Yes 85.17
Flying H/S	No
Spin. Pole	Yes

Water Ballast	0	Trim Tab	No
BLR Index	0.0000		

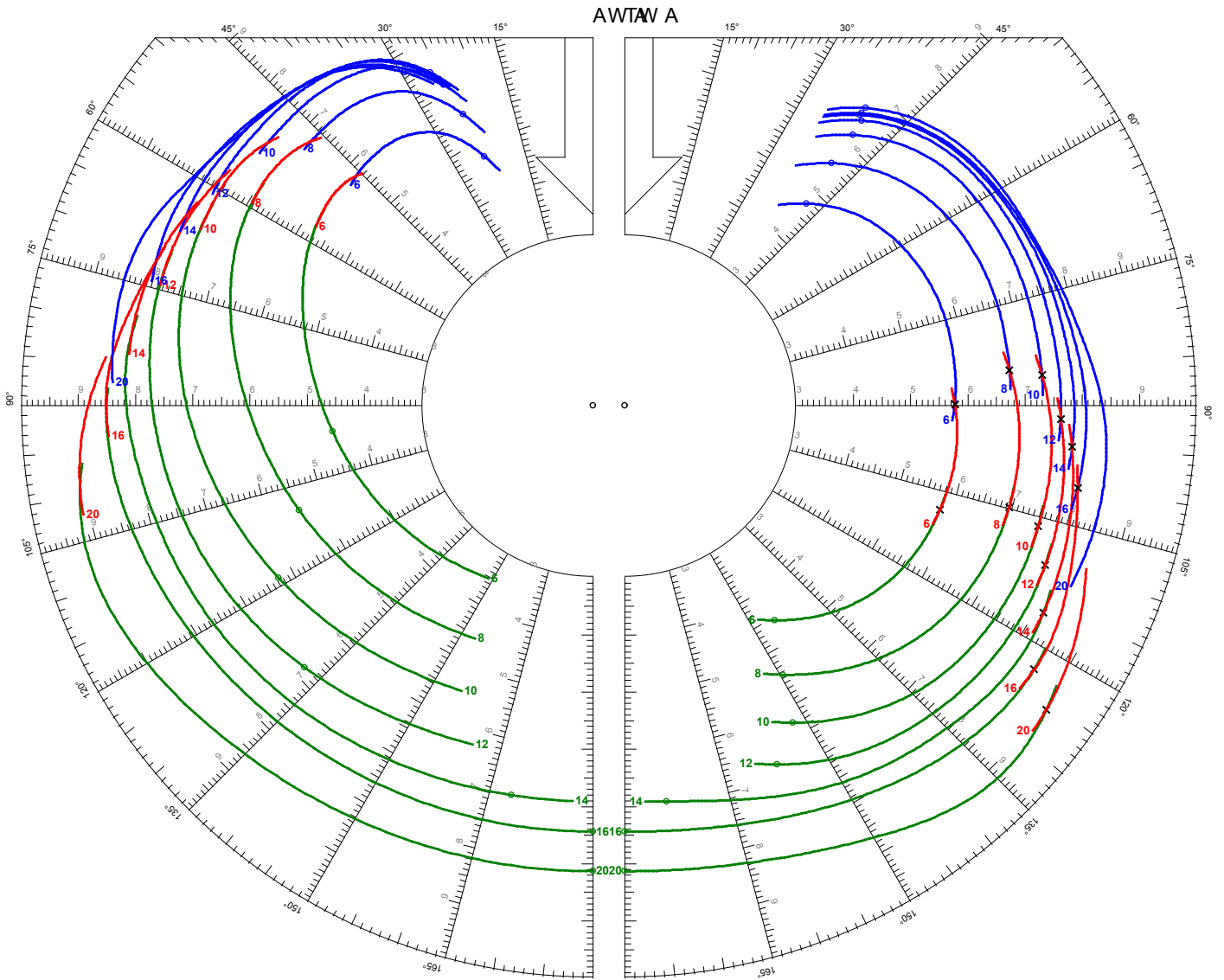
PROPELLER	
Installation	Strut
Type	Folding 2 blades
PRD	0.435
PBW	0.110
PIPA	0.0038

CENTERBOARD	
	N/A

Stability (Measured)	
Limit Positive Stab.:	111.2°
Stability Index:	115.2

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	604.2	0.9931
Circular Random	620.8	0.9665
Predominantly Upwind	603.1	0.9949
Predominantly Downwind	559.4	1.0726

Owner	



Polar Plot for Boat	
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Double Handed Certificate Appendix

BOAT			
Name	KALEVALA II	Certificate Number	US6129
Sail Nr	USA-52439	Issued On	11/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1032.3	859.6	769.4	729.8	715.4	710.4	696.6
52°	683.3	579.2	525.3	504.8	498.1	495.2	488.1
60°	649.4	554.1	508.2	490.4	483.7	480.6	475.8
75°	623.1	535.9	496.1	478.2	467.7	461.8	457.6
90°	626.4	526.9	486.5	474.3	460.3	448.8	433.1
110°	625.5	522.4	480.5	459.4	443.1	433.1	417.2
120°	642.4	533.8	485.2	461.4	441.5	422.7	399.0
135°	708.6	578.8	508.5	475.8	454.3	433.3	393.1
150°	836.2	667.0	567.1	506.8	476.3	455.7	415.6
Run VMG	965.5	770.2	653.9	577.7	523.7	486.7	445.3
Selected Courses							
Windward / Leeward	998.9	814.9	711.6	653.8	619.6	598.6	571.0
Circular Random	848.9	687.7	602.4	553.9	524.9	506.2	482.3
Coastal / Long Distance	995.6	766.0	641.6	571.8	535.2	507.1	461.1
Non Spinnaker	909.4	730.1	633.4	577.3	543.1	521.0	492.9

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	42.0°	40.5°	40.1°	39.8°	39.0°	39.0°	39.0°
Beat VMG	3.49	4.19	4.68	4.93	5.03	5.07	5.17
52°	5.27	6.22	6.85	7.13	7.23	7.27	7.38
60°	5.54	6.50	7.08	7.34	7.44	7.49	7.57
75°	5.78	6.72	7.26	7.53	7.70	7.80	7.87
90°	5.75	6.83	7.40	7.59	7.82	8.02	8.31
110°	5.76	6.89	7.49	7.84	8.12	8.31	8.63
120°	5.60	6.74	7.42	7.80	8.15	8.52	9.02
135°	5.08	6.22	7.08	7.57	7.92	8.31	9.16
150°	4.31	5.40	6.35	7.10	7.56	7.90	8.66
Run VMG	3.73	4.67	5.51	6.23	6.87	7.40	8.08
Gybe Angles	145.0°	149.5°	152.0°	157.0°	174.0°	180.0°	180.0°