




ORC
World Leader in Rating Technology

2018
ORC Club
Certificate

Rating Office
FSBF Rating Office
Joakim Majander
Matinlahdenkatu 3 E25
02230 Espoo



SUOMEN PURJEHDUS JA VEENILY
SEGLING OCH BÅTSPORT I FINLAND

Certificate
Number **11826b**
Issued On **03.07.2018**
ORC Ref **FIN00000180**
VPP Ver. **2018 1.00**
Valid until **31.12.2018**

Crew Weight

Default	893kg
Maximum	500kg
Minimum*	375kg

*when applied by the NoR and SI
Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	578.1	1.0378
Double H.OSN	563.0	1.0657
Non Spin GPH	613.6	0.9778
Non Spin OSN	595.3	1.0079

Sails Limitations

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

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 152.78**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = **11.056**

Stability (Estimated)
Limit Positive Stab.: **117.1°**
Stability Index: **121.8**

Owner
Jorma Nuutinen
TPS

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

BOAT Name SOPU DOS Sail Nr FIN-11826	GPH 574.7	HULL Data File L11826Cb LOA 12.503m Offset File CLAzuree41b.off MB 3.940m Displacement 9 053kg Draft 2.435m
CLASS Class Azuree 41 Designer Rob Humphries Builder Sirena Marine Series 01.2016 Age Date 08.2017 Age Allowance 0.065%	IMS Division Cruiser/Racer Dynamic All. 0.206% Fwd Accom. Yes Construction Cored Fiber Rigging Aramid Core Crew Arm Ex Carbon Rudder Light Stanchions	IMSL 12.142m VCGD 0.097m Sink 27.11kg/mm RL 9.969m VCGM 0.056m WS 36.00m² LSM0 12.002m Displacement/Length ratio 5.2364
COMMENTS	Water Ballast 0 Trim Tab BLR Index 0.0000	CENTERBOARD N/A
PROPELLER Installation Strut PRD 0.406 Type Folding 3 or 4 blades PIPA 0.0039	SCORING OPTIONS	
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	558.6	629.1
Time on Time	1.0741	1.0729
Triple Number	Low Medium High	Low Medium High
Time on Distance	657.8 508.2 457.2	850.8 631.0 553.8
Time on Time	1.0261 1.3281 1.4765	0.7934 1.0697 1.2188



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ORC Club Certificate Appendix

BOAT	
Name	SOPU DOS
Sail Nr	FIN-11826
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	977.3	801.4	711.3	668.8	650.4	642.2	623.9
52°	640.8	536.0	483.0	461.9	454.4	450.6	443.6
60°	606.8	511.2	467.1	449.0	441.4	437.6	432.8
75°	582.0	493.8	456.1	438.4	426.9	419.7	413.5
90°	582.9	486.0	453.9	436.7	422.2	409.2	389.5
110°	575.6	477.0	439.7	420.9	409.4	398.6	379.1
120°	590.6	486.4	444.0	420.9	399.2	383.8	361.5
135°	659.4	532.7	465.7	436.3	414.4	391.1	345.3
150°	783.2	623.5	527.6	471.2	445.9	428.4	391.7
Run VMG	904.3	720.0	609.2	544.0	513.1	480.1	431.9
Selected Courses							
Windward / Leeward	940.8	760.7	660.2	606.4	581.8	561.1	527.9
Circular Random	791.0	638.2	557.2	511.2	483.4	465.1	439.7
Coastal / Long Distance	937.1	713.9	594.4	527.1	493.5	466.4	421.2
Non Spinnaker	864.4	689.4	594.0	537.7	502.7	479.7	450.4

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°	39.9°	39.2°	38.9°	38.3°
Beat VMG	3.68	4.49	5.06	5.38	5.53	5.61	5.77
52°	5.62	6.72	7.45	7.79	7.92	7.99	8.12
60°	5.93	7.04	7.71	8.02	8.16	8.23	8.32
75°	6.19	7.29	7.89	8.21	8.43	8.58	8.71
90°	6.18	7.41	7.93	8.24	8.53	8.80	9.24
110°	6.25	7.55	8.19	8.55	8.79	9.03	9.50
120°	6.10	7.40	8.11	8.55	9.02	9.38	9.96
135°	5.46	6.76	7.73	8.25	8.69	9.21	10.43
150°	4.60	5.77	6.82	7.64	8.07	8.40	9.19
Run VMG	3.98	5.00	5.91	6.62	7.02	7.50	8.34
Gybe Angles	143.1°	147.1°	147.8°	149.9°	151.4°	175.2°	177.9°