



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

FSBF Rating Office
Joakim Majander
Matinlahdenkatu 3 E25
02230 Espoo



SUOMEN PURJEHDUS JA VENEILY
SEGLING OCH BÅTSPORT I FINLAND

Certificate

Number **11826b**
Issued On **15.03.2018**
ORC Ref **FIN00000021**
VPP Ver. **2018 1.00**
Valid until **31.12.2018**

Crew Weight

Default 893kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	575.5	1.0426
Double H.OSN	560.3	1.0708
Non Spin GPH	612.2	0.9801
Non Spin OSN	594.1	1.0100

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** 116.97
Asymmetric: **Yes** 152.78
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **11.007**

Stability (Estimated)

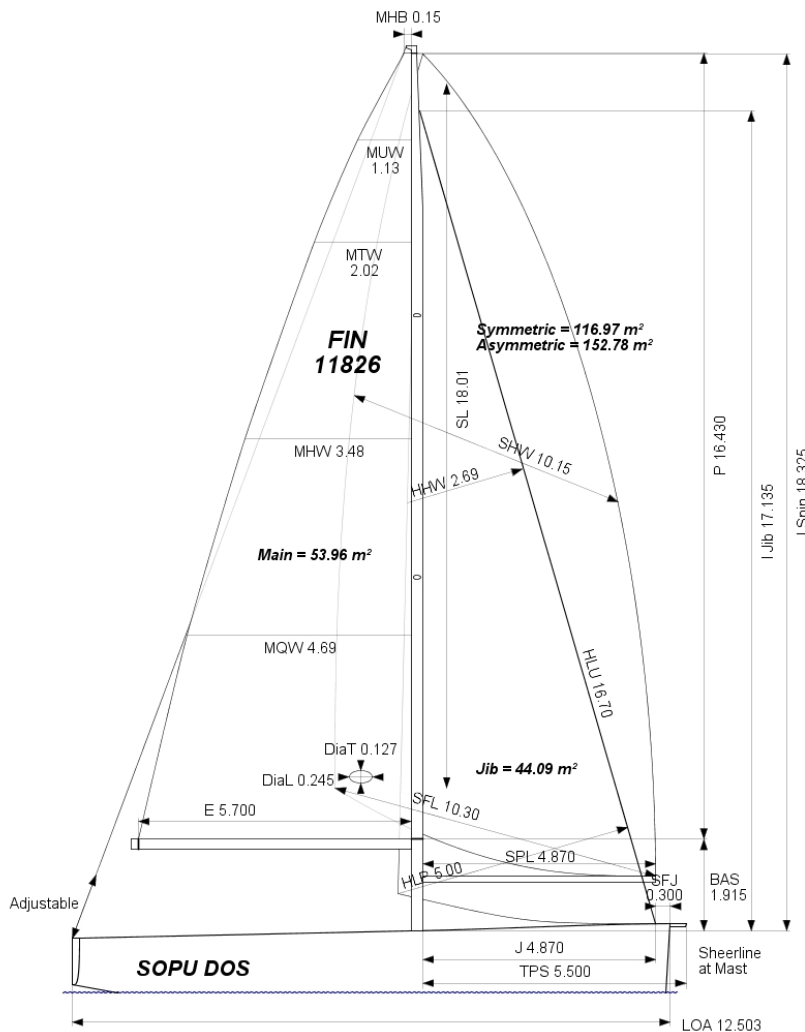
Limit Positive Stab.: **117.1°**
Stability Index: **121.8**

Owner

Jorma Nuutinen
TPS

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

Signature



BOAT		GPH		HULL		
Name	SOPU DOS			Data File	L11826Cb	
Sail Nr	FIN-11826			Offset File	CLAzuree41b.off	
		572.9		Displacement	9 053kg	
				LOA	12.503m	
				MB	3.940m	
				Draft	2.435m	
CLASS				IMS Division	Cruiser/Racer	
Class	Azuree 41			Dynamic All.	0.206%	
Designer	Rob Humphries			Fwd Accom.	Yes	
Builder	Sirena Marine			Construction	Cored	
Series	01.2016			Fiber Rigging	Aramid Core	
Age Date	08.2017			Crew Arm Ex	Carbon Rudder	
Age Allowance	0.065%				Light Stanchions	
COMMENTS				IMSL	12.142m	
				VCGD	0.097m	
				Sink	27.11kg/mm	
				RL	9.870m	
				VCGM	0.056m	
				WS	36.00m²	
				LSM0	12.002m	
				Displacement/Length ratio	5.2364	
PROPELLER				Water Ballast	0	
Installation	Strut	PRD	0.406	Trim Tab		
Type	Folding 3 or 4 blades	PIPA	0.0039	BLR Index	0.0000	
CENTERBOARD						
				N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	557.0			623.1		
Time on Time	1.0772			1.0833		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	655.5	507.4	453.6	846.8	626.8	543.4
Time on Time	1.0298	1.3304	1.4882	0.7971	1.0769	1.2422



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ORC Club Certificate Appendix

BOAT			
Name	SOPU DOS	Certificate Number	11826b
Sail Nr	FIN-11826	Issued On	15.03.2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	974.7	800.5	712.8	672.1	654.1	645.7	627.0
52°	639.4	536.3	483.9	463.3	455.8	452.1	444.8
60°	605.8	511.6	467.7	449.8	442.6	438.9	433.9
75°	581.4	494.1	456.5	438.8	427.7	421.0	415.2
90°	580.9	486.7	455.9	437.0	422.7	410.0	391.2
110°	573.1	476.6	440.1	422.7	411.4	400.8	381.5
120°	587.8	485.3	443.7	421.1	400.5	386.2	364.2
135°	652.4	530.0	464.6	435.4	413.4	390.1	344.8
150°	774.5	621.5	524.7	466.6	437.7	417.0	373.5
Run VMG	894.3	717.6	605.9	533.3	488.6	453.0	410.7
Selected Courses							
Windward / Leeward	934.5	759.1	659.4	602.7	571.3	549.4	518.8
Circular Random	788.0	636.4	555.7	509.3	480.9	461.9	436.1
Coastal / Long Distance	930.5	712.5	593.9	526.0	490.6	463.5	418.9
Non Spinnaker	860.7	687.2	592.8	537.2	502.7	480.0	450.9

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°	40.9°	40.3°	39.9°	39.3°	39.0°	38.4°
Beat VMG	3.69	4.50	5.05	5.36	5.50	5.58	5.74
52°	5.63	6.71	7.44	7.77	7.90	7.96	8.09
60°	5.94	7.04	7.70	8.00	8.13	8.20	8.30
75°	6.19	7.29	7.89	8.20	8.42	8.55	8.67
90°	6.20	7.40	7.90	8.24	8.52	8.78	9.20
110°	6.28	7.55	8.18	8.52	8.75	8.98	9.44
120°	6.13	7.42	8.11	8.55	8.99	9.32	9.89
135°	5.52	6.79	7.75	8.27	8.71	9.23	10.44
150°	4.65	5.79	6.86	7.72	8.22	8.63	9.64
Run VMG	4.03	5.02	5.94	6.75	7.37	7.95	8.77
Gybe Angles	141.8°	147.5°	148.8°	154.7°	163.6°	180.0°	180.0°