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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **200260**
Issued On **12/08/2020**
ORC Ref **03390000ODO**
VPP Ver. **2020 1.01**
Valid until **31/03/2021**

Crew Weight

Default **1,108kg**
Maximum **700kg**
Minimum* **525kg**
**when applied by the NoR and SI*
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Non Spin GPH	565.9	1.0603
Non Spin OSN	551.7	1.0876

Sails Limitations

Headsails **7** Spinnakers **5**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 216.38**
Flying H/S: **No**
Spin. Pole: **No**

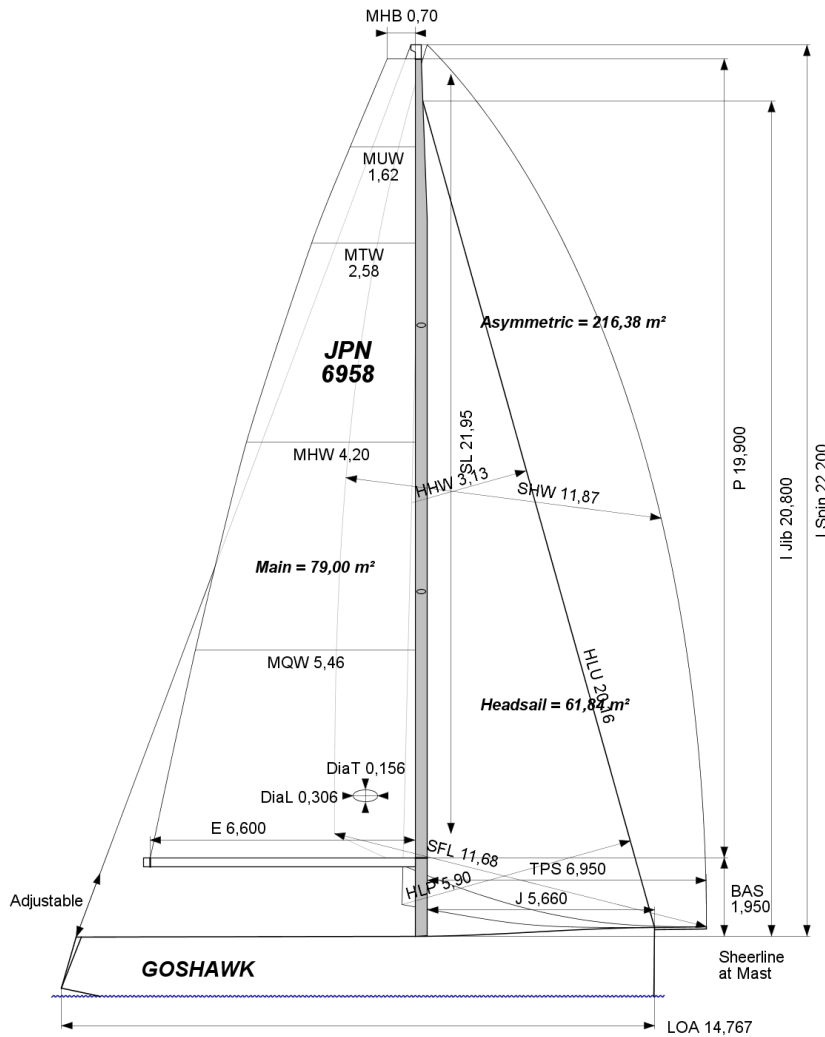
Class Division Length

CDL = 12.869

Stability (Estimated)

Limit Positive Stab.: **118.9°**
Stability Index: **126.5**

Owner



BOAT	GPH	HULL
Name Goshawk Sail Nr JPN 6958	530.5	Data File JC200260 LOA 14.767m Offset File SWAN48DK.off MB 4.564m Displacement 14,500kg Draft 3.014m
CLASS Class Swan48 Designer German Freas Builder Nautor Series 11/2019 Age Date 02/2020 Age Allowance 0.033%		IMS Division Cruiser/Racer Dynamic All. 0.154% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 14.008m VCGD 0.165m Sink 37.03kg/mm RL 11.728m VCGM 0.067m WS 48.00m² LSM0 13.958m Displacement/Length ratio 5.3321
PROPELLER Installation Strut PRD 0.508 Type Folding 3 blades PIPA 0.0010		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	516.5	582.5
Time on Time	1.1617	1.1588
Triple Number	Low Medium High	Low Medium High
Time on Distance	605.3 469.7 423.8	783.2 583.3 513.6
Time on Time	1.1151 1.4372 1.5927	0.8619 1.1573 1.3143

2020

ORC Club Certificate Appendix

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	892.3	734.0	652.0	616.6	600.9	593.3	576.3
52°	584.8	490.3	443.7	426.7	420.2	417.0	410.0
60°	552.9	467.7	429.3	414.3	408.3	405.0	400.2
75°	528.5	452.2	419.5	403.9	394.3	388.7	383.5
90°	533.1	450.4	419.6	402.1	389.1	377.7	361.7
110°	534.2	443.0	407.1	390.6	380.4	370.7	353.6
120°	548.2	451.3	411.1	390.0	371.2	358.2	338.5
135°	608.6	493.7	432.1	404.3	384.6	364.2	324.5
150°	724.4	580.1	492.2	437.6	412.1	395.9	365.1
Run VMG	836.5	669.9	568.4	505.3	474.3	450.3	402.4
Selected Courses							
Windward / Leeward	864.4	702.0	610.2	561.0	537.6	521.8	489.4
Circular Random	727.9	588.3	514.5	472.6	447.5	431.0	408.1
Coastal / Long Distance	861.6	659.0	549.2	487.3	456.4	432.4	391.4
Non Spinnaker	793.0	634.6	548.3	497.3	465.4	444.1	416.2

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°	39.4°	39.0°	38.6°	38.3°
Beat VMG	4.03	4.90	5.52	5.84	5.99	6.07	6.25
52°	6.16	7.34	8.11	8.44	8.57	8.63	8.78
60°	6.51	7.70	8.39	8.69	8.82	8.89	9.00
75°	6.81	7.96	8.58	8.91	9.13	9.26	9.39
90°	6.75	7.99	8.58	8.95	9.25	9.53	9.95
110°	6.74	8.13	8.84	9.22	9.46	9.71	10.18
120°	6.57	7.98	8.76	9.23	9.70	10.05	10.64
135°	5.92	7.29	8.33	8.90	9.36	9.88	11.09
150°	4.97	6.21	7.31	8.23	8.74	9.09	9.86
Run VMG	4.30	5.37	6.33	7.12	7.59	7.99	8.95
Gybe Angles	143.0°	146.0°	148.0°	150.5°	151.5°	174.0°	178.0°