

BOAT Name SetSail Sail Nr ROU 042	GPH 539.5	HULL Length Overall 12.960m Maximum Beam 3.910m Displacement 7,665kg Draft 2.745m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class Swan 42 Designer Builder Series 06/2006 Age Age Allowance 0.455% Offset File SWAN42CS.OFF - 19/02/2015 20:04:48 Measurement by - 17/06/2020		IMSL 11.857m VCGD -0.454m Sink 24.26kg/mm RL 11.344m VCGM -0.351m WS 32.98m² LSM0 11.564m Displacement/Length ratio 4.9566



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	525.2			589.2		
Time on Time	1.1424			1.1457		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	606.6	481.1	432.8	780.8	590.2	523.9
Time on Time	1.1127	1.4031	1.5597	0.8645	1.1436	1.2884

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	889.2	731.7	655.5	626.9	613.8	603.5	591.5
52°	585.2	492.7	459.1	447.6	442.1	439.1	430.9
60°	554.0	475.4	448.3	436.0	430.0	426.3	418.2
75°	529.9	464.6	439.5	423.4	411.0	403.7	396.8
90°	534.4	463.8	438.6	419.9	402.0	386.7	368.4
110°	534.5	454.8	425.1	408.5	394.6	380.4	355.5
120°	547.8	459.4	426.8	399.8	379.8	364.5	336.4
135°	608.6	490.7	443.4	415.8	387.5	359.2	306.3
150°	723.2	578.0	491.3	446.0	425.0	403.6	350.2
Run VMG	835.0	667.5	567.3	514.4	489.5	459.4	404.4

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VPP Ver. **2020 1.02**
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Crew Weight
Default **847kg**
Maximum **905kg**
Minimum* **679kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	577.4	1.0391
Non Spin OSN	563.3	1.0652

Selected Courses							
Windward / Leeward	862.1	699.6	611.4	570.7	551.7	531.5	497.9
Circular Random	733.1	595.8	523.9	483.1	457.9	440.1	413.1
Coastal / Long Distance	859.4	658.5	554.9	499.5	470.4	443.3	396.9
Non Spinnaker	802.7	645.1	559.9	509.7	478.0	456.5	427.2

Sails Limitations

Headsails	Spinnakers
7	5

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	42.4°	40.9°	39.2°	37.7°	37.3°	36.8°	36.4°
Beat VMG	4.05	4.92	5.49	5.74	5.87	5.97	6.09
52°	6.15	7.31	7.84	8.04	8.14	8.20	8.35
60°	6.50	7.57	8.03	8.26	8.37	8.44	8.61
75°	6.79	7.75	8.19	8.50	8.76	8.92	9.07
90°	6.74	7.76	8.21	8.57	8.95	9.31	9.77
110°	6.73	7.92	8.47	8.81	9.12	9.46	10.13
120°	6.57	7.84	8.43	9.00	9.48	9.88	10.70
135°	5.92	7.34	8.12	8.66	9.29	10.02	11.75
150°	4.98	6.23	7.33	8.07	8.47	8.92	10.28
Run VMG	4.31	5.39	6.35	7.00	7.35	7.84	8.90
Gybe Angles	143.0°	145.5°	149.0°	152.0°	151.5°	176.0°	143.4°

Class Division Length
CDL = **11.596**

Storm Sails Areas
Heavy Weather Jib **44.42**
Storm Jib (JL=11.79) **16.45**
Storm Trysail **17.51**

Owner

BOAT			
Name SetSail	Sail Nr ROU 042		
File ROU042	Data in meters/kilograms		
RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners/Checkstays 0		
Carbon Mast Yes	Jib Furler No		
Fiber Rigging Yes	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 17.250	E 5.800	MDT1 0.140	MW 0.263
IG 17.953	J 5.010	MDL1 0.263	GO 0.314
ISP 19.443	SFJ 0.335	MDT2 0.106	BD 0.200
BAS 1.943	SPL	MDL2 0.200	MWT
FSD	TPS 7.305	TL 1.000	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 17/12/2019		SG 1.0100	
FFM 1.433	FF 1.439	SFFP 0.474	
FAM 1.128	FA 1.132	SAFP 12.543	
W1 126.1	PD1 558.5	WD 12.340	
W2 126.1	PD2 558.4	GSA 1.0	
W3 126.1	PD3 560.5	RSA 1.0	
W4 126.1	PD4 559.2	PLM 9000.0	
LCF from stem on CL / on sheer		7.114 / 7.365	
Maximum beam station from stem		8.347	
RM Measured		219.2kg-m	
RM Default		214.4kg-m	
Limit of positive stability / Stab.Index		135.4° / 138.1	
Freeboard at mast at 5.345		1.231	



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MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation Strut	PRD 0.433		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0040		
ST1 0.065	ST3 0.180	ST5 0.280	
ST2 0.180	ST4 0.110	EDL 1.630	

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COMMENTS			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.16	1.48	2.46	3.80	4.86	61.17	62.59	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	21.52	17.66	19.59	11.27	11.37	184.31	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.13	0.83	1.53	2.74	3.96	5.27	17.92	48.80	Y	No	18/06/2020	Carbon	
0.10	0.80	1.49	2.82	4.04	5.20	17.72	48.48	Y	No	18/06/2020	Carbon	
0.13	0.83	1.52	2.70	3.89	5.31	17.92	48.44	Y	No	18/06/2020	Carbon	
0.10	0.73	1.35	2.60	3.84	5.33	18.20	47.88	Y	No		Carbon	
0.13	0.70	1.32	2.51	3.74	5.15	17.81	45.45	Y	No	18/06/2020	Carbon	
0.10	0.61	1.17	2.40	3.71	5.10	16.00	39.61	Y	No	18/06/2020	Carbon	

MEASUREMENT INVENTORY				
Measurer				
Date 18/06/2020				
Comment				
Internal Ballast total = 0.0				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	volvo Penta	D2-40 B	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

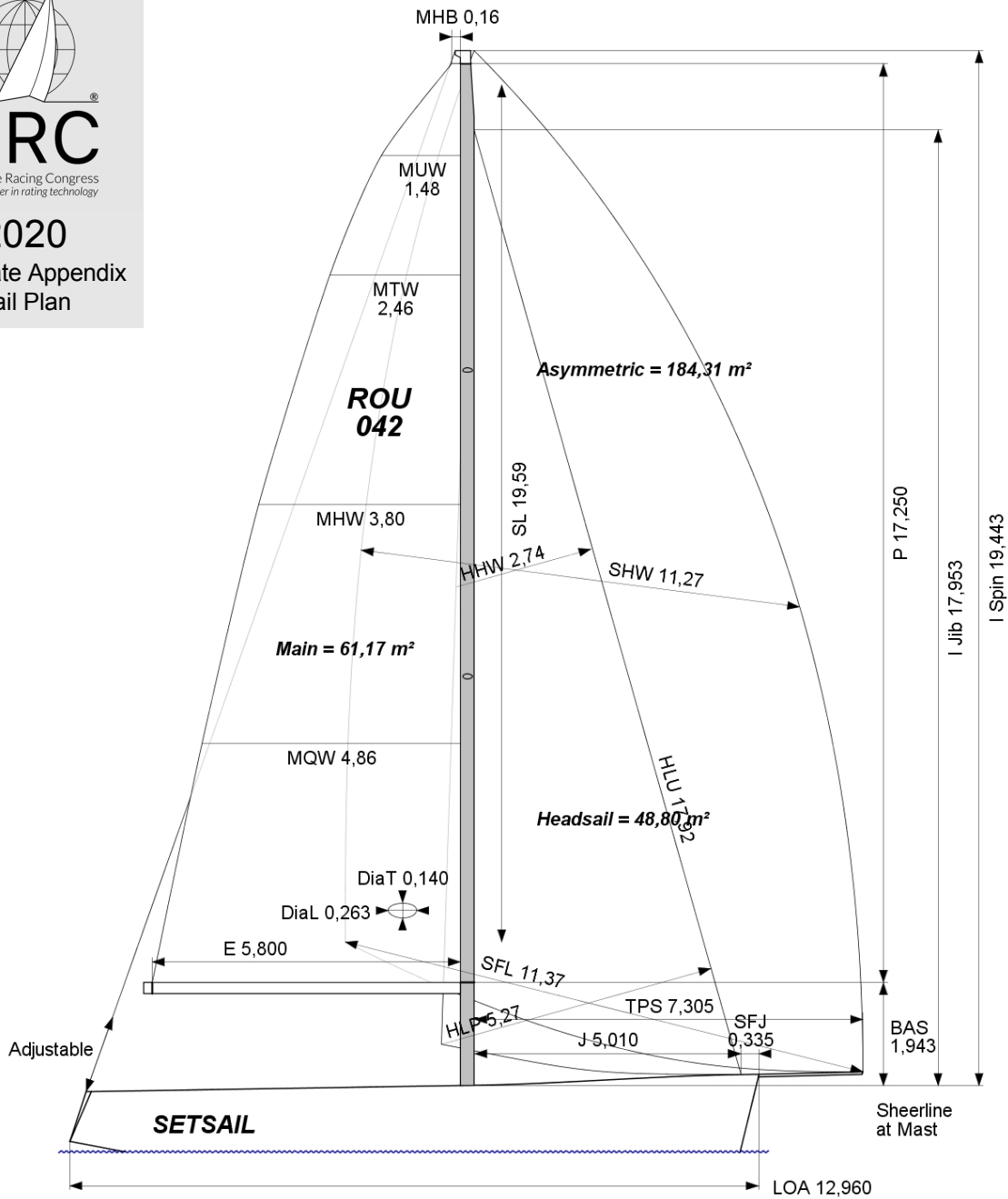
MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
w1	Tank water		plastic	159.0	6.90	
w2	Tank water		plastic	159.0	6.90	
d1	Tank diesel		plastic	74.0	5.90	
d2	Tank diesel		plastic	74.0	5.90	
wa	Tank waste		flexible	55.0	3.60	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
b1	Battery	38.0	6.10	140 ah		
b2	Battery	38.0	6.70	140 ah		



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SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ms1	0.16	1.48	2.46	3.80	4.86	61.18		18/06/2020	ONE	Carbon	2020					
HEADSAILS (6)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.13	0.83	1.53	2.74	3.96	5.27	17.92	105%	48.80	Y	No		18/06/2020	one	Carbon	
top	0.10	0.80	1.49	2.82	4.04	5.20	17.72	104%	48.48	Y	No		18/06/2020	one	Carbon	
J2	0.13	0.83	1.52	2.70	3.89	5.31	17.92	106%	48.44	Y	No		18/06/2020	one	Carbon	
J2Q	0.10	0.73	1.35	2.60	3.84	5.33	18.20	106%	47.88	Y	No			quantum	Carbon	
J3	0.13	0.70	1.32	2.51	3.74	5.15	17.81	103%	45.45	Y	No		18/06/2020	one	Carbon	
J4	0.10	0.61	1.17	2.40	3.71	5.10	16.00	102%	39.61	Y	No		18/06/2020	ONE	Carbon	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A1	21.52	17.66	19.59	11.27	11.37	184.31	asym		18/06/2020	one	Nylon					
A2	20.95	17.92	19.44	11.30	10.87	181.62	asym		18/06/2020	one	Nylon					
A4	21.80	17.92	19.86	10.79	11.05	179.44	asym		18/06/2020	one	Nylon					
A3	21.02	18.54	19.78	10.24	11.27	172.19	asym			sailloft	Nylon					