

BOAT Name SELENE Sail Nr NED-7842	GPH 539.1	HULL Length Overall 12.960m Maximum Beam 3.910m Displacement 7,638kg Draft 2.742m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class SWAN 42 Designer SWAN NY/CLUB FRERS Builder NAUTOR Series 01/2006 Age 01/2006 Age Allowance 0.422% Offset File SWAN42CS.OFF - 19/02/2015 20:04:48 Measurement by - 09/05/2019		IMSL 11.842m VCGD -0.462m Sink 24.36kg/mm RL 11.375m VCGM -0.357m WS 33.02m² LSM0 11.545m Displacement/Length ratio 4.9636



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	525.2			589.2		
Time on Time	1.1425			1.1455		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	605.5	481.0	433.1	779.5	590.4	524.7
Time on Time	1.1148	1.4033	1.5585	0.8659	1.1433	1.2864

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	881.1	726.6	653.2	626.1	613.4	603.5	591.6
52°	580.8	490.5	458.2	447.2	441.8	438.9	430.7
60°	550.6	474.1	447.7	435.7	429.7	426.0	418.2
75°	527.5	463.8	439.1	423.0	410.6	403.3	396.4
90°	532.3	463.2	438.1	419.4	401.5	386.2	367.8
110°	534.7	454.9	425.0	407.8	394.1	380.9	355.6
120°	548.2	459.8	427.2	400.2	379.3	364.5	336.8
135°	611.1	492.1	444.3	416.9	388.7	360.5	306.6
150°	727.0	581.1	493.2	447.3	426.3	405.3	352.3
Run VMG	839.5	671.0	569.6	515.9	490.9	460.3	406.8

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Number **78421**
ORC Ref **ITA00052729**
Issued On **23/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **845kg**
Maximum **924kg**
Minimum* **693kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	549.0	1.0930
Double H.OSN	536.6	1.1181
Non Spin GPH	576.2	1.0413
Non Spin OSN	562.4	1.0669

Selected Courses							
Windward / Leeward	860.3	698.8	611.4	571.0	552.2	531.9	499.2
Circular Random	731.8	595.2	523.6	483.1	458.0	440.4	413.6
Coastal / Long Distance	858.2	657.9	554.9	499.6	470.4	443.5	397.4
Non Spinnaker	799.9	643.4	558.8	509.1	477.8	456.6	428.3

Sails Limitations

Headsails	Spinnakers
6	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	42.5°	40.8°	39.1°	37.7°	37.3°	36.7°	36.6°
Beat VMG	4.09	4.95	5.51	5.75	5.87	5.97	6.09
52°	6.20	7.34	7.86	8.05	8.15	8.20	8.36
60°	6.54	7.59	8.04	8.26	8.38	8.45	8.61
75°	6.82	7.76	8.20	8.51	8.77	8.93	9.08
90°	6.76	7.77	8.22	8.58	8.97	9.32	9.79
110°	6.73	7.91	8.47	8.83	9.13	9.45	10.12
120°	6.57	7.83	8.43	9.00	9.49	9.88	10.69
135°	5.89	7.32	8.10	8.64	9.26	9.98	11.74
150°	4.95	6.20	7.30	8.05	8.44	8.88	10.22
Run VMG	4.29	5.37	6.32	6.98	7.33	7.82	8.85
Gybe Angles	143.0°	145.2°	148.9°	151.8°	151.7°	176.1°	143.3°

Class Division Length
CDL = **11.610**

Storm Sails Areas
Heavy Weather Jib **44.63**
Storm Jib (JL=11.82) **16.53**
Storm Trysail **17.27**

Owner

BOAT	
Name SELENE	Sail Nr NED-7842
File NED7842	Data in meters/kilograms

RIG	
Forestay Tension Aft & Forward	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 17.160	E 5.750 MDT1 0.138 MW 0.264
IG 18.000	J 5.000 MDL1 0.264 GO 0.314
ISP 19.470	SFJ 0.340 MDT2 0.106 BD 0.206
BAS 1.920	SPL 0.000 MDL2 0.200 MWT 229.00
FSP 0.068	TPS 7.040 TL 1.000 MCG 6.290

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 02/04/2019	SG 1.0060	
FFM 1.448	FF 1.457	SFFP 0.474
FAM 1.115	FA 1.120	SAFP 12.543
W1 97.4	PD1 515.2	WD 14.910
W2 97.4	PD2 524.6	GSA 1.0
W3 97.4	PD3 517.4	RSA 1.0
W4 97.4	PD4 510.7	PLM 9000.0
LCF from stem on CL / on sheer		7.159 / 7.406
Maximum beam station from stem		8.347
RM Measured		221.2kg-m
RM Default		215.0kg-m
Limit of positive stability / Stab.Index		135.5° / 138.1
Freeboard at mast at 5.340		1.237



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.440	
Type Folding 2 blades	PBW 0.110	
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	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.160	1.46	2.45	3.80	4.86	60.67	62.09	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		
	22.03	17.59	19.81	11.08	10.82	182.05	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	0.78	1.49	2.72	3.96	5.29	18.24	49.39	Y		09/05/2019	Unknow	
0.10	0.77	1.44	2.69	3.89	5.25	18.14	48.42			23/07/2018	Twaron	
0.11	0.74	1.42	2.65	3.85	5.25	17.84	47.19	Y	N	25/06/2017	Spectra	

MEASUREMENT INVENTORY				
Measurer 174				
Date 02/04/2019				
Comment Marina S. Andrea				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO PENTA	D2-40 29 KW	
Id	Item	Weight Description		

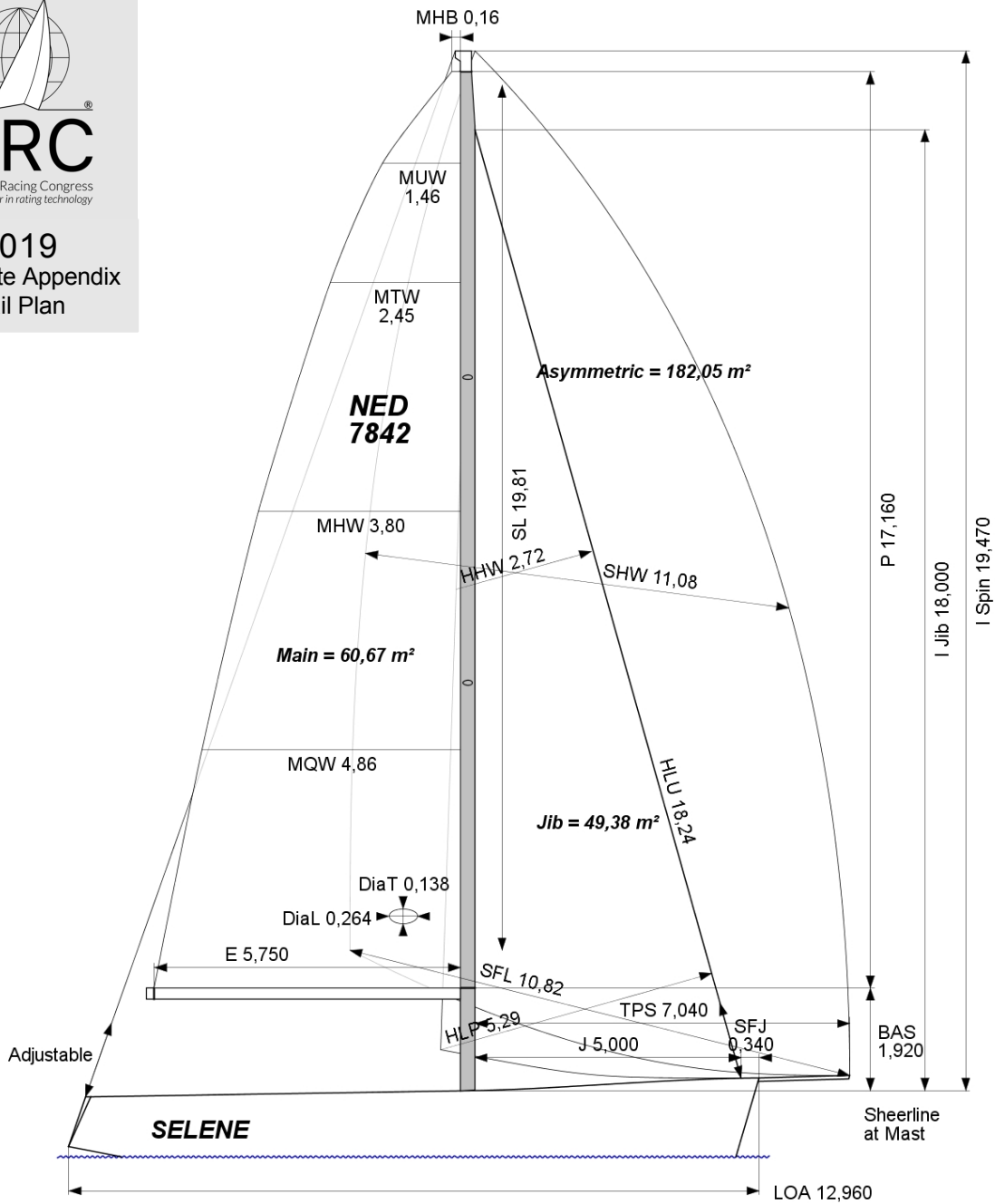
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	WATER	PVC	320.0	6.94	0.00	0-0 2 x 160 L
B	Tank	FUEL	PVC	140.0	5.64		8-0 L 2 x 70 L
Id	Item	Weight	Distance	VCG Description			
A	Battery	6.39		2 x SERVIZI			
B	Battery	9.45		50 Ah			
A	Misc	12.08		WEBASTO DX			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
G	0.16	1.46	2.45	3.80	4.86	60.68		09/05/2019	ONE	Unknown						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.10	0.78	1.49	2.72	3.96	5.29	18.24	106%	49.39	Y			09/05/2019	NORTH	Unknown	
G	0.10	0.77	1.44	2.69	3.89	5.25	18.14	105%	48.42				23/07/2018	ONE	Twaron	
C	0.11	0.74	1.42	2.65	3.85	5.25	17.84	105%	47.19	Y	N		25/06/2017	ONE SAIL	Spectra	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
F	22.03	17.59	19.81	11.08	10.82	182.06	asym		09/05/2019	ONE	Nylon					
E	21.50	17.70	19.60	11.07	11.15	181.08	asym		20/04/2016		Unknown					