

BOAT Name Seanna Sail Nr FIN-11762	GPH 591.7	HULL Length Overall 13.578m Maximum Beam 4.240m Displacement 11,231kg Draft 2.330m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.280% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Grand Soleil 45 Designer Judel & Vrolijk Builder Cantiere del Pardo Series 01/2003 Age 05/2005 Age Allowance 0.487% Offset File gs45SK.off - 20/01/2015 12:40:32 Measurement by - 18/05/2020		IMSL 12.513m VCGD 0.329m Sink 30.73kg/mm RL 9.439m VCGM 0.243m WS 38.83m² LSM0 12.482m Displacement/Length ratio 5.7752



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	572.8			641.5		
Time on Time	1.0475			1.0522		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	694.2	520.0	456.7	901.0	648.1	549.2
Time on Time	0.9723	1.2981	1.4779	0.7492	1.0415	1.2291

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1057.0	863.1	754.9	687.3	655.6	642.8	637.5
52°	680.6	568.8	503.0	468.1	452.8	447.0	443.4
60°	637.8	538.7	481.5	453.8	440.5	434.1	429.8
75°	606.2	515.0	466.1	443.1	429.5	419.9	409.4
90°	614.1	511.9	457.5	439.0	426.8	414.5	393.3
110°	606.6	497.6	446.9	424.3	408.0	397.3	380.3
120°	621.1	508.2	451.9	426.5	407.2	388.6	364.4
135°	684.8	553.3	477.4	441.2	420.3	401.1	362.7
150°	812.7	645.3	544.0	478.6	443.6	423.5	387.3
Run VMG	938.4	745.1	628.2	549.6	499.6	460.8	417.7

Certificate
Number **11762**
ORC Ref **03290000NVN**
Issued On **04/08/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **944kg**
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring
ToD ToT
Non Spin GPH **630.8 0.9512**
Non Spin OSN **609.8 0.9839**

Selected Courses							
Windward / Leeward	997.7	804.1	691.5	618.5	577.6	551.8	527.6
Circular Random	828.2	663.2	573.2	520.2	487.5	466.6	442.3
Coastal / Long Distance	991.8	753.5	619.0	536.4	494.6	464.9	421.5
Non Spinnaker	898.8	713.1	610.2	548.4	509.6	484.5	454.9

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	43.9°	42.0°	41.3°	40.9°	40.3°	39.8°	39.8°
Beat VMG	3.41	4.17	4.77	5.24	5.49	5.60	5.65
52°	5.29	6.33	7.16	7.69	7.95	8.05	8.12
60°	5.64	6.68	7.48	7.93	8.17	8.29	8.38
75°	5.94	6.99	7.72	8.12	8.38	8.57	8.79
90°	5.86	7.03	7.87	8.20	8.44	8.69	9.15
110°	5.93	7.23	8.06	8.48	8.82	9.06	9.47
120°	5.80	7.08	7.97	8.44	8.84	9.26	9.88
135°	5.26	6.51	7.54	8.16	8.56	8.98	9.93
150°	4.43	5.58	6.62	7.52	8.12	8.50	9.30
Run VMG	3.84	4.83	5.73	6.55	7.21	7.81	8.62
Gybe Angles	141.0°	148.0°	149.0°	153.0°	160.0°	180.0°	180.0°

Class Division Length
CDL = **10.970**

Storm Sails Areas
Heavy Weather Jib **36.86**
Storm Jib (JL=10.74) **13.65**
Storm Trysail **16.03**

Owner

BOAT	
Name Seanna File L11762	Sail Nr FIN-11762 Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 15.790	E 5.800 MDT1 0.140 MW 0.255
IG 16.423	J 4.985 MDL1 0.255 GO 0.285
ISP 17.618	SFJ 0.380 MDT2 0.135 BD 0.230
BAS 1.798	SPL 5.500 MDL2 0.200 MWT 320.50
FSD 0.038	TPS TL 1.080 MCG 5.814

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 05/05/2018	SG 1.0050	
FFM 1.490	FF 1.494	SFFP 0.235
FAM 1.180	FA 1.196	SAFP 12.735
W1 141.8	PD1 480.1	WD 11.920
W2 141.8	PD2 464.3	GSA 1.0
W3 141.8	PD3 468.7	RSA 1.0
W4 141.8	PD4 467.1	PLM 9000.0
LCF from stem on CL / on sheer		7.507 / 7.783
Maximum beam station from stem		8.928
RM Measured		283.2kg-m
RM Default		301.5kg-m
Limit of positive stability / Stab.Index		104.3° / 110.3
Freeboard at mast at 5.365		1.277



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.455	
Type Folding 2 blades	PBW 0.140	
Twin Screw No	PIPA 0.0041	
ST1 0.065	ST3 0.180	ST5 0.310
ST2 0.180	ST4 0.110	EDL 3.380

Certificate	
Number 11762	
ORC Ref 03290000NVN	
Issued On 04/08/2020	
VPP Ver. 2020 1.02	
Valid until 31/12/2020	

COMMENTS	
Batteries changed to LiFePO4 after inclining test. Modified as weight removed.	

MOVABLE BALLAST	
N/A	



CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.15	1.16	2.09	3.65	4.85	53.63 54.71 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	Area Formula
	17.52	17.52	17.52	9.84	9.79	143.52 SL · (SFL + 4·SHW) / 6
Asymmetric	Not Available					

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	Flying	Meas.Date	Material	Comment
0.11	0.79	1.46	2.71	3.99	5.31	16.43	44.56	Y	No	28/02/2019	Kevlar	
0.08	0.77	1.46	2.71	3.98	5.31	16.32	44.16	Y	No	04/04/2018	Carbon	
0.08	0.67	1.26	2.41	3.60	4.83	14.87	36.13	N	No	18/05/2020	Unknow	
0.06	0.58	1.09	2.11	3.07	3.96	14.54	29.98	N	Inner	13/07/2016	Unknow	Stay sail

MEASUREMENT INVENTORY				
Measurer				
Date 05/05/2018				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Chain	98.0	10.40	-0.15 Weight saved-
Id	Item	Maker	Model	
1	Engine	Volvo Penta	D2-55C	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank Fuel		RST	230.0	11.20		0-0
2	Tank Water		Plastic	400.0	11.10		0-0 2*200 l
3	Tank Boiler		RST	23.0	9.87		0-0
4	Tank Waste			43.0	5.37		0-0 To be installed
Id	Item	Weight	Distance	VCG	Description		
1	Battery		10.40		LiFePO4		
2	Battery		10.40		LiFePO4		
1	Misc		12.30		Eber D4 heater		

