

BOAT Name CODE ZERO Sail Nr GRE-9442	GPH 564.2	HULL Length Overall 12.450m Maximum Beam 3.216m Displacement 6,453kg Draft 2.554m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class GRAND SOLEIL 42 R Designer BOTIN-CARKEEK Builder DEL PARDO Series 04/2003 Age 06/2003 Age Allowance 0.487% Offset File GS42R.OFF - 28/02/2008 17:15:06 Measurement by - 02/04/2010		IMSL 10.992m VCGD -0.174m Sink 23.20kg/mm RL 10.797m VCGM -0.210m WS 29.89m² LSM0 10.529m Displacement/Length ratio 5.5284



2019
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Certificate

Rating Office

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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	548.3			612.4		
Time on Time	1.0943			1.1022		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	645.9	499.8	445.4	836.3	615.0	534.4
Time on Time	1.0450	1.3506	1.5154	0.8071	1.0975	1.2630

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	926.1	756.4	670.1	642.6	630.7	620.9	611.2
52°	610.1	507.9	469.2	458.2	453.3	450.7	442.7
60°	577.7	489.7	458.1	446.4	440.9	437.9	428.6
75°	553.5	478.7	450.0	432.5	421.9	416.1	409.8
90°	559.2	481.8	449.9	429.6	410.9	396.5	382.7
110°	580.9	480.9	442.7	417.1	400.2	387.1	366.3
120°	600.1	492.0	449.0	421.2	394.2	371.6	345.9
135°	672.2	540.1	472.2	441.1	415.0	389.1	336.0
150°	802.2	637.9	535.6	474.1	444.2	419.7	371.9
Run VMG	926.3	736.6	618.4	542.2	494.3	458.0	410.4

Certificate
Number **00372P**
ORC Ref **GRE01016318**
Issued On **14/09/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight
Default **741kg**
Maximum **796kg**
Minimum* **597kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **592.6 1.0125**
Non Spin OSN **576.2 1.0413**

Selected Courses							
Windward / Leeward	926.2	746.5	644.3	592.4	562.5	539.4	510.8
Circular Random	776.9	627.0	547.3	501.3	472.9	453.8	427.9
Coastal / Long Distance	926.2	702.3	582.6	518.3	483.6	454.3	409.5
Non Spinnaker	828.2	663.2	574.1	522.0	489.6	467.9	439.4

Sails Limitations
Headsails **6** Spinnakers **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	42.4°	41.2°	39.1°	38.0°	37.3°	37.0°	37.1°
Beat VMG	3.89	4.76	5.37	5.60	5.71	5.80	5.89
52°	5.90	7.09	7.67	7.86	7.94	7.99	8.13
60°	6.23	7.35	7.86	8.06	8.16	8.22	8.40
75°	6.50	7.52	8.00	8.32	8.53	8.65	8.79
90°	6.44	7.47	8.00	8.38	8.76	9.08	9.41
110°	6.20	7.49	8.13	8.63	9.00	9.30	9.83
120°	6.00	7.32	8.02	8.55	9.13	9.69	10.41
135°	5.36	6.67	7.62	8.16	8.68	9.25	10.71
150°	4.49	5.64	6.72	7.59	8.11	8.58	9.68
Run VMG	3.89	4.89	5.82	6.64	7.28	7.86	8.77
Gybe Angles	141.4°	146.4°	148.4°	155.1°	167.3°	180.0°	180.0°

Class Division Length
CDL = **10.895**

Storm Sails Areas
Heavy Weather Jib **32.70**
Storm Jib (JL=10.12) **12.12**
Storm Trysail **16.18**

Owner

BOAT	
Name CODE ZERO	Sail Nr GRE-9442
File GR9442	Data in meters/kilograms

RIG	
Forestay Tension Aft	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 16.212	E 5.700 MDT1 0.124 MW 0.237
IG 15.467	J 4.540 MDL1 0.242 GO 0.265
ISP 15.600	SFJ 0.120 MDT2 0.084 BD 0.262
BAS 1.686	SPL 4.525 MDL2 0.180 MWT 205.00
FSP 0.068	TPS TL 2.610 MCG 5.405

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 09/07/2017		SG 1.0255	
FFM 1.390	FF 1.390	SFFP 0.100	
FAM 1.073	FA 1.074	SAFP 11.988	
W1 128.8	PD1 556.8	WD 11.435	
W2 128.8	PD2 555.7	GSA 1.0	
W3 128.8	PD3 557.3	RSA 1.0	
W4 128.8	PD4 556.0	PLM 9000.0	
LCF from stem on CL / on sheer		6.760 / 6.938	
Maximum beam station from stem		7.940	
RM Measured		208.4kg-m	
RM Default		190.5kg-m	
Limit of positive stability / Stab.Index		130.6° / 137.3	
Freeboard at mast at 4.660		1.221	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut		PRD
Type Folding 2 blades		PBW
Twin Screw No		PIPA 0.0035
ST1 0.041	ST3	ST5 0.275
ST2	ST4 0.112	EDL 0.980

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COMMENTS	
Solid Keel with Tunnels. ex "ARISTOFANI R", ex "BOOKER", ex "SAIOLA" FRA-9442	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.190	1.34	2.25	3.67	4.71	55.26	56.47	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	110.19		SL · (SFL + 4·SHW) / 6	
	15.30	15.30	15.30	8.74	8.25				
Asymmetric	Not Available								

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	Fly	Meas.Date	Material	Comment
0.08	0.73	1.38	2.57	3.70	4.85	15.81	39.82	Y		17/05/2019	Carbon	LIGHT 3Di
0.08	0.70	1.32	2.51	3.70	4.85	15.81	39.39	Y			Unknow	Medium 3Di
0.09	0.67	1.29	2.50	3.67	4.82	15.65	38.65	Y		21/05/2013	Kevlar	JIB TOP
0.09	0.66	1.27	2.46	3.63	4.80	15.62	38.18	Y			Unknow	
0.09	0.66	1.28	2.47	3.65	4.79	15.50	37.99	Y		10/05/2016	Carbon	3DL Light
0.09	0.67	1.28	2.45	3.62	4.74	15.47	37.63	Y		10/05/2016	Dyneem	3Di Medium
0.08	0.66	1.24	2.36	3.50	4.71	15.41	36.56			07/06/2016	Carbon	3DL
0.08	0.59	1.11	2.23	3.44	4.63	15.49	35.42	N		13/07/2011	Unknow	WINDSEEKER

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 09/07/2017				
Comment MATRESSES & FLOORBOARDS IN THEIR				
<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	YANMAR		
<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</i>	<i>Condtn Description</i>
1	Tank	FUEL	PVC hard	62.0	7.80		40-0
2	Tank	WATER	Soft bag	50.0	5.40		0-0
3	Tank	WATER	Soft bag	50.0	5.40		0-0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
1	Ballast	117.5	6.00	58.1 (p) + 59.4 (s)			
2	Ballast	688.8	6.60	345.8 (p) + 343.0 (s)			
3	Ballast	77.7	7.20	31.6 (p) + 46.1 (s)			
4	Ballast	565.9	7.70	283.0 (p) + 282.9 (s)			
1	Battery	34.0	7.10	2 x 75Ah			
2	Battery	14.4	7.10	1 x 58Ah			

