

BOAT Name PETE Sail Nr GRE-7575	GPH 555.2	HULL Length Overall 12.690m Maximum Beam 3.698m Displacement 6,490kg Draft 2.548m 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 42R Designer Botin/Carkeek Builder Del Pardo Series 04/2005 Age 05/2005 Age Allowance 0.455% Offset File GS42R05.OFF - 14/04/2005 22:13:24 Measurement by - 18/04/2014		IMSL 11.018m VCGD 0.022m Sink 23.63kg/mm RL 10.808m VCGM -0.022m WS 30.34m² LSM0 10.554m Displacement/Length ratio 5.5207



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	540.0			604.3		
Time on Time	1.1112			1.1169		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	633.0	492.7	439.3	818.9	607.7	529.7
Time on Time	1.0663	1.3700	1.5364	0.8243	1.1107	1.2743

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	912.7	745.3	667.7	642.3	630.8	617.7	611.1
52°	600.8	499.5	464.5	454.8	450.1	446.2	438.9
60°	568.3	481.5	452.6	442.3	437.0	434.0	424.0
75°	543.5	470.7	442.8	426.0	416.8	411.2	402.9
90°	548.8	472.3	441.6	421.3	402.9	390.1	378.6
110°	568.6	472.1	434.9	408.1	390.5	377.5	358.9
120°	587.8	482.0	440.3	411.1	384.8	363.0	337.5
135°	655.4	526.6	462.6	432.3	404.7	378.4	323.8
150°	780.3	620.4	521.7	464.9	435.5	409.7	361.0
Run VMG	901.0	716.3	602.4	531.2	485.6	450.6	401.5

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Valid until **28/02/2020**

Crew Weight
Default **743kg**
Maximum **780kg**
Minimum* **585kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **585.1** **1.0255**
Non Spin OSN **569.7** **1.0533**

Selected Courses							
Windward / Leeward	906.8	730.8	635.1	586.8	558.2	534.1	506.3
Circular Random	762.8	616.4	538.7	494.0	466.3	447.5	422.3
Coastal / Long Distance	906.3	687.5	574.0	512.2	477.9	448.0	403.5
Non Spinnaker	816.1	654.3	567.0	515.9	484.0	462.6	434.9

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	42.7°	41.3°	39.1°	38.5°	37.9°	37.3°	37.6°
Beat VMG	3.94	4.83	5.39	5.60	5.71	5.83	5.89
52°	5.99	7.21	7.75	7.91	8.00	8.07	8.20
60°	6.34	7.48	7.95	8.14	8.24	8.30	8.49
75°	6.62	7.65	8.13	8.45	8.64	8.75	8.93
90°	6.56	7.62	8.15	8.54	8.93	9.23	9.51
110°	6.33	7.63	8.28	8.82	9.22	9.54	10.03
120°	6.12	7.47	8.18	8.76	9.36	9.92	10.67
135°	5.49	6.84	7.78	8.33	8.90	9.51	11.12
150°	4.61	5.80	6.90	7.74	8.27	8.79	9.97
Run VMG	4.00	5.03	5.98	6.78	7.41	7.99	8.97
Gybe Angles	142.0°	146.1°	149.3°	155.2°	166.2°	180.0°	180.0°

Class Division Length
CDL = **10.914**

Storm Sails Areas
Heavy Weather Jib **33.98**
Storm Jib (JL=10.32) **12.59**
Storm Trysail **17.17**

Owner

BOAT	
Name PETE	Sail Nr GRE-7575
File CRO7575	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 15/03/2015				SG 1.0250	
FFM	1.426	FF	1.426	SFFP	0.150
FAM	1.112	FA	1.112	SAFP	12.063
W1	100.9	PD1	527.9	WD	13.050
W2	100.9	PD2	527.7	GSA	1.0
W3	100.9	PD3	528.0	RSA	1.0
W4	100.9	PD4	528.6	PLM	9000.0
LCF from stem on CL / on sheer				6.706 / 6.930	
Maximum beam station from stem				7.950	
RM Measured				196.4kg-m	
RM Default				199.1kg-m	
Limit of positive stability / Stab.Index				119.9° / 122.0	
Freeboard at mast at 4.740				1.223	



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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	16.400	E	5.980	MDT1	0.133
IG	15.831	J	4.740	MDL1	0.250
ISP	16.800	SFJ		MDT2	0.080
BAS	1.702	SPL	5.045	MDL2	0.123
FSP	0.080	TPS		MWT	216.00
				TL	2.500
				MW	0.250
				GO	0.260
				BD	0.265
				MCG	5.380

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.475
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0037
ST1	0.049	ST3	0.177
ST2	0.177	ST4	0.113
		ST5	0.300
		EDL	0.915

COMMENTS	
ex "Yellowpad", ex "NINURIATA XIV".	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.280	1.39	2.38	3.84	4.97	58.84	60.22	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16.25	16.25	16.25	9.02	8.41	120.49		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	15.40	14.76	15.08	6.65	8.79	88.95 100.39		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
0.09	0.84	1.54	2.78	3.94	4.99	15.82	42.44	Y		22/05/2019	Carbon	J1
0.09	0.83	1.54	2.74	3.88	4.97	15.80	41.96	Y		22/05/2019	Carbon	J2
0.09	0.61	1.21	2.41	3.63	4.91	15.52	37.79	Y		01/10/2017	Carbon	J3

MEASUREMENT INVENTORY				
Measurer CRO				
Date 18/04/2014				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	40 HP	
Id	Item	Weight Description		

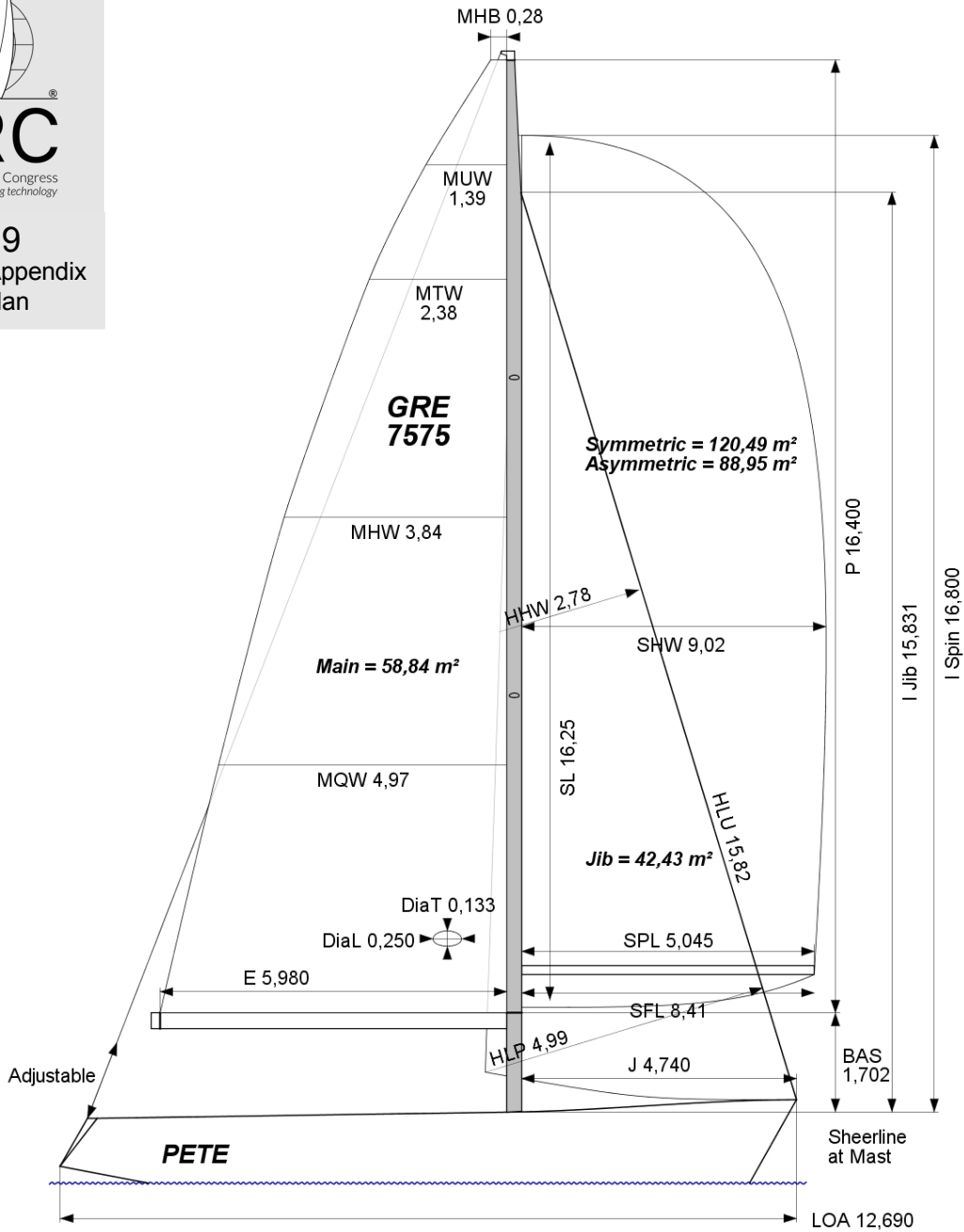
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
1	Tank	Fuel		100.0	8.64		0-0	Empty	
2	Tank	Water			5.34		0-0	Empty	
Id	Item	Weight	Distance	VCG Description					
1	Ballast	425.0	6.84	Lead bars epoxied					
2	Ballast	190.0	7.84	8 lead bars under engine					
3	Ballast	250.0	7.83	Lead bars epoxied					
4	Ballast	250.0	7.83	Lead bars epoxied					
5	Ballast	90.0	7.04	2 lead bars under batteries					
1	Battery		7.21	3*75 Ah					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.28	1.39	2.38	3.84	4.97	58.84		27/10/2018	Dustom sails	Carbon						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.09	0.84	1.54	2.78	3.94	4.99	15.82	105%	42.44	Y			22/05/2019	Dustom sails	Carbon	J1
1	0.09	0.83	1.54	2.74	3.88	4.97	15.80	105%	41.96	Y			22/05/2019	Dustom sails	Carbon	J2
2	0.09	0.61	1.21	2.41	3.63	4.91	15.52	104%	37.79	Y			01/10/2017	North sails	Carbon	J3
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	16.25	16.25	16.25	9.02	8.41	120.50		01/10/2017	North sails	Nylon	S 1.5					
1	15.62	15.62	15.62	8.14	7.96	105.49		29/05/2009	Quantum	Nylon	S1					
2	15.93	15.93	15.93	7.13	8.98	99.57		01/10/2017	North sails	Nylon	S0					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	15.40	14.76	15.08	6.65	8.79	88.95	asym		02/05/2019	Quantum	Unknown	C0				