

BOAT Name ESTELLA Sail Nr GRE-6238	GPH 629.2	HULL Length Overall 12.688m Maximum Beam 4.128m Displacement 8,608kg Draft 1.792m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.342% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class FIRST 42 S7 Designer BRUCE FARR Builder BENETEAU Series 11/1993 Age 10/1994 Age Allowance 0.487% Offset File ANEMOESA.OFF - 13/03/1998 08:36:00 Measurement by - 15/09/2004		IMSLS 11.074m VCGD 0.236m Sink 24.98kg/mm RL 8.246m VCGM 0.216m WS 33.65m² LSM0 10.940m Displacement/Length ratio 6.5743



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	610.5			686.8		
Time on Time	0.9828			0.9829		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	737.0	553.0	487.5	962.4	693.2	591.3
Time on Time	0.9159	1.2206	1.3845	0.7014	0.9738	1.1416

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1111.5	911.3	799.0	735.4	709.3	698.2	699.2
52°	710.0	592.5	525.3	493.4	481.0	475.9	473.5
60°	659.9	557.5	501.8	477.3	465.6	460.6	457.4
75°	624.3	530.1	485.2	464.5	451.4	441.9	432.9
90°	630.5	530.5	482.5	460.1	445.7	432.6	411.1
110°	652.6	533.0	476.0	450.6	431.3	414.0	393.9
120°	672.9	548.1	482.7	454.2	433.7	413.8	380.0
135°	746.9	601.6	515.7	472.0	448.6	428.5	389.3
150°	886.6	695.5	585.4	514.2	473.3	450.9	413.1
Run VMG	1023.8	803.1	675.8	589.8	531.4	487.2	441.8

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Number **000394**
ORC Ref **GRE01015486**
Issued On **25/04/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight

Default **782kg**
Maximum **782kg**
Minimum* **587kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	656.6	0.9138
Non Spin OSN	636.6	0.9425

Selected Courses							
Windward / Leeward	1067.6	857.2	737.4	662.6	620.4	592.7	570.5
Circular Random	880.0	704.8	609.5	553.6	519.4	497.8	473.3
Coastal / Long Distance	1063.2	802.3	658.7	571.9	527.8	495.8	447.0
Non Spinnaker	929.8	739.8	635.4	573.5	535.2	510.8	482.6

Sails Limitations

Headsails	Spinnakers
5	3

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	45.0°	43.5°	43.0°	42.6°	41.8°	41.3°	41.8°
Beat VMG	3.24	3.95	4.51	4.90	5.08	5.16	5.15
52°	5.07	6.08	6.85	7.30	7.48	7.57	7.60
60°	5.46	6.46	7.17	7.54	7.73	7.82	7.87
75°	5.77	6.79	7.42	7.75	7.98	8.15	8.32
90°	5.71	6.79	7.46	7.82	8.08	8.32	8.76
110°	5.52	6.75	7.56	7.99	8.35	8.70	9.14
120°	5.35	6.57	7.46	7.93	8.30	8.70	9.47
135°	4.82	5.98	6.98	7.63	8.03	8.40	9.25
150°	4.06	5.18	6.15	7.00	7.61	7.98	8.71
Run VMG	3.52	4.48	5.33	6.10	6.77	7.39	8.15
Gybe Angles	144.9°	149.1°	151.2°	153.6°	163.2°	180.0°	180.0°

Class Division Length

CDL = **9.660**

Storm Sails Areas

Heavy Weather Jib **32.89**
Storm Jib (JL=10.15) **12.19**
Storm Trysail **13.24**

Owner

BOAT	
Name ESTELLA	Sail Nr GRE-6238
File GR6238	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast No	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 14.390	E 5.256 MDT1 0.120 MW 0.225
IG 15.535	J 4.272 MDL1 0.225 GO 0.245
ISP 15.665	SFJ 0.430 MDT2 0.115 BD 0.190
BAS 1.867	SPL 4.378 MDL2 0.180 MWT
FSP 0.073	TPS TL 0.700 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 18/04/2017	SG 1.0285	
FFM 1.423	FF 1.420	SFFP 0.720
FAM 1.123	FA 1.125	SAFP 10.920
W1 108.7	PD1 468.6	WD 10.700
W2 108.7	PD2 470.4	GSA 1.0
W3 108.7	PD3 473.0	RSA 1.0
W4 108.7	PD4 471.0	PLM 9000.0
LCF from stem on CL / on sheer		7.024 / 7.309
Maximum beam station from stem		7.306
RM Measured		194.6kg-m
RM Default		215.3kg-m
Limit of positive stability / Stab.Index		106.9° / 109.0
Freeboard at mast at 4.702		1.255



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.480
Type Feathering 3 blades	PBW 0.120
Twin Screw No	PIPA 0.0085
PSA 18.000	PHL 0.188 ST3 0.130 ESL 1.160
PSD 0.030	ST1 0.042 ST4 0.060
PHD 0.095	ST2 0.130 ST5 0.260

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COMMENTS	
ex "IASON".	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.170	1.14	1.95	3.27	4.35	44.33	45.24	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	15.58	15.58	15.58	7.85	7.77	101.71		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)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
	0.75	1.50	3.06	4.65	6.25	15.25	47.20			18/09/2008	Pentex	
0.03	0.73	1.47	3.02	4.60	6.19	15.25	46.55			06/03/2013	Unknow	

MEASUREMENT INVENTORY				
Measurer GRE-7				
Date 18/04/2017				
Comment				
<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>	
5	Engine	YANMAR	4JH5E 53HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

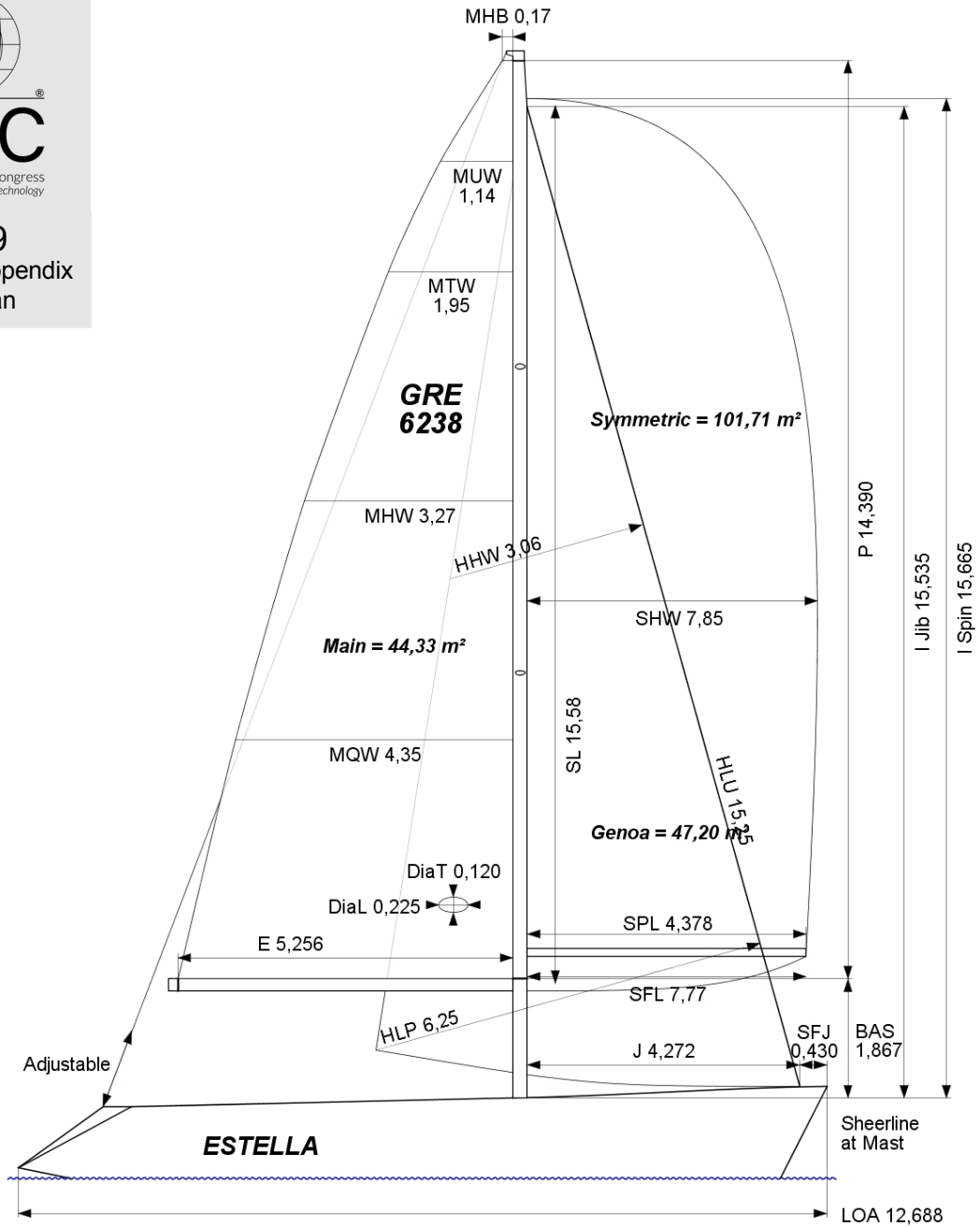
MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
6a	Tank	WATER	GRP	300.0	9.95	-0.07	0-0	
6b	Tank	WATER	GRP	300.0	3.50	-0.05	0-0	
6c	Tank	FUEL	INOX	150.0	10.20	-0.05	25-0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
3a	Battery	60.5	9.50	-0.09 2 X 120 Ah				
3b	Battery	37.2	8.25	-0.34 1 X 135 Ah				
3c	Battery	14.0	8.15	-0.26 1 X 45 Ah				
9a	Misc	18.0	1.40	1.32 WINDLASS 1000W				
9b	Misc	16.5	7.10	-0.20 WATER HEATER				
9c	Misc	7.8	11.20	0.78 SWIMMING LADER				



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.17	1.14	1.95	3.27	4.35	44.34		15/10/2010	KAKITSIS	Dacron						
ORC	0.15	1.09	1.92	3.26	4.33	44.04					* Copied from legacy					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1		0.75	1.50	3.06	4.65	6.25	15.25	146%	47.20				18/09/2008	KAKITSIS	Pentex	
2	0.03	0.73	1.47	3.02	4.60	6.19	15.25	145%	46.55				06/03/2013		Unknow	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	15.58	15.58	15.58	7.85	7.77	101.72		05/07/2013		Unknown						
S1	15.59	15.59	15.59	7.85	7.60	101.34		18/09/2008	KAKITSIS	Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				