

<b>BOAT</b> Name <b>ESTELLA</b> Sail Nr <b>GRE-6238</b>	<b>GPH</b> <b>626.0</b>	<b>HULL</b> Length Overall <b>12.688m</b> Maximum Beam <b>4.128m</b> Displacement <b>8,608kg</b> Draft <b>1.792m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.302%</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension IMSL <b>11.074m</b> VCGD <b>0.236m</b> Sink <b>24.98kg/mm</b> RL <b>8.229m</b> VCGM <b>0.216m</b> WS <b>33.65m<sup>2</sup></b> LSM0 <b>10.940m</b> Displacement/Length ratio <b>6.5743</b>
<b>GENERAL</b> Class <b>FIRST 42 S7</b> Designer <b>BRUCE FARR</b> Builder <b>BENETEAU</b> Series <b>11/1993</b> Age <b>10/1994</b> Age Allowance <b>0.487%</b> Offset File <b>ANEMOESA.OFF - 13/03/1998 08:36:00</b> Measurement by - <b>15/09/2004</b>		



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>607.4</b>			<b>683.1</b>		
Time on Time	<b>0.9878</b>			<b>0.9881</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>732.5</b>	<b>550.3</b>	<b>486.1</b>	<b>956.9</b>	<b>688.8</b>	<b>589.5</b>
Time on Time	<b>0.9215</b>	<b>1.2267</b>	<b>1.3886</b>	<b>0.7054</b>	<b>0.9799</b>	<b>1.1451</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1113.6</b>	<b>912.3</b>	<b>799.8</b>	<b>736.1</b>	<b>710.3</b>	<b>699.3</b>	<b>700.0</b>
52°	<b>711.3</b>	<b>592.8</b>	<b>525.5</b>	<b>493.6</b>	<b>481.3</b>	<b>476.1</b>	<b>473.7</b>
60°	<b>660.6</b>	<b>557.8</b>	<b>501.9</b>	<b>477.4</b>	<b>465.8</b>	<b>460.8</b>	<b>457.6</b>
75°	<b>624.5</b>	<b>530.1</b>	<b>485.3</b>	<b>464.5</b>	<b>451.4</b>	<b>441.9</b>	<b>433.0</b>
90°	<b>630.6</b>	<b>530.6</b>	<b>482.5</b>	<b>460.0</b>	<b>445.7</b>	<b>432.5</b>	<b>411.1</b>
110°	<b>643.7</b>	<b>526.2</b>	<b>472.6</b>	<b>448.1</b>	<b>429.0</b>	<b>412.7</b>	<b>394.6</b>
120°	<b>661.5</b>	<b>538.9</b>	<b>478.0</b>	<b>450.9</b>	<b>429.9</b>	<b>409.6</b>	<b>378.1</b>
135°	<b>731.4</b>	<b>589.6</b>	<b>506.0</b>	<b>466.6</b>	<b>444.0</b>	<b>423.3</b>	<b>383.8</b>
150°	<b>873.6</b>	<b>686.7</b>	<b>576.1</b>	<b>505.7</b>	<b>468.2</b>	<b>446.7</b>	<b>408.0</b>
Run VMG	<b>1008.7</b>	<b>793.0</b>	<b>665.2</b>	<b>579.5</b>	<b>524.7</b>	<b>482.7</b>	<b>438.5</b>

**Certificate**  
Number **00394**  
ORC Ref **0342000MMP**  
Issued On **16/07/2020**  
VPP Ver. **2020 1.02**  
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**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 **656.7 0.9137**  
Non Spin OSN **636.7 0.9423**

<b>Selected Courses</b>							
Windward / Leeward	<b>1061.2</b>	<b>852.6</b>	<b>732.5</b>	<b>657.8</b>	<b>617.5</b>	<b>591.0</b>	<b>569.3</b>
Circular Random	<b>874.8</b>	<b>700.8</b>	<b>606.4</b>	<b>551.1</b>	<b>517.4</b>	<b>496.1</b>	<b>472.1</b>
Coastal / Long Distance	<b>1055.9</b>	<b>797.8</b>	<b>654.6</b>	<b>568.9</b>	<b>525.9</b>	<b>494.1</b>	<b>445.8</b>
Non Spinnaker	<b>930.0</b>	<b>739.9</b>	<b>635.5</b>	<b>573.6</b>	<b>535.3</b>	<b>510.9</b>	<b>482.7</b>

**Sails Limitations**  
Headsails **5** Spinnakers **4**

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>45.0°</b>	<b>43.5°</b>	<b>42.8°</b>	<b>42.6°</b>	<b>41.8°</b>	<b>41.3°</b>	<b>41.8°</b>
Beat VMG	<b>3.23</b>	<b>3.95</b>	<b>4.50</b>	<b>4.89</b>	<b>5.07</b>	<b>5.15</b>	<b>5.14</b>
52°	<b>5.06</b>	<b>6.07</b>	<b>6.85</b>	<b>7.29</b>	<b>7.48</b>	<b>7.56</b>	<b>7.60</b>
60°	<b>5.45</b>	<b>6.45</b>	<b>7.17</b>	<b>7.54</b>	<b>7.73</b>	<b>7.81</b>	<b>7.87</b>
75°	<b>5.76</b>	<b>6.79</b>	<b>7.42</b>	<b>7.75</b>	<b>7.98</b>	<b>8.15</b>	<b>8.31</b>
90°	<b>5.71</b>	<b>6.78</b>	<b>7.46</b>	<b>7.83</b>	<b>8.08</b>	<b>8.32</b>	<b>8.76</b>
110°	<b>5.59</b>	<b>6.84</b>	<b>7.62</b>	<b>8.03</b>	<b>8.39</b>	<b>8.72</b>	<b>9.12</b>
120°	<b>5.44</b>	<b>6.68</b>	<b>7.53</b>	<b>7.98</b>	<b>8.37</b>	<b>8.79</b>	<b>9.52</b>
135°	<b>4.92</b>	<b>6.11</b>	<b>7.11</b>	<b>7.72</b>	<b>8.11</b>	<b>8.50</b>	<b>9.38</b>
150°	<b>4.12</b>	<b>5.24</b>	<b>6.25</b>	<b>7.12</b>	<b>7.69</b>	<b>8.06</b>	<b>8.82</b>
Run VMG	<b>3.57</b>	<b>4.54</b>	<b>5.41</b>	<b>6.21</b>	<b>6.86</b>	<b>7.46</b>	<b>8.21</b>
Gybe Angles	<b>145.0°</b>	<b>149.0°</b>	<b>150.0°</b>	<b>154.0°</b>	<b>163.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **9.645**

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

**Owner**

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

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>14.390</b>	E <b>5.256</b> MDT1 <b>0.120</b> MW <b>0.225</b>
IG <b>15.535</b>	J <b>4.272</b> MDL1 <b>0.225</b> GO <b>0.245</b>
ISP <b>15.665</b>	SFJ <b>0.430</b> MDT2 <b>0.115</b> BD <b>0.190</b>
BAS <b>1.867</b>	SPL <b>4.378</b> MDL2 <b>0.180</b> MWT
FSD <b>0.036</b>	TPS TL <b>0.700</b> MCG

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



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<b>MIZZEN RIG AND SAILS</b>	
N/A	

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

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<b>COMMENTS</b>	
ex "IASON".	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.17	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	Area Area (r) Formula
	15.96	15.96	15.96	8.53	8.44	113.21 SL · (SFL + 4·SHW) / 6
Asymmetric	Not Available					

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HBB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
	0.75	1.50	3.06	4.65	6.25	15.25	47.20		No	18/09/2008	Pentex	
	0.03	0.73	1.47	3.02	4.60	6.19	15.25	46.55	No	06/03/2013	Unknow	

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>GRE-7</b>				
Date <b>18/04/2017</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
<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>		

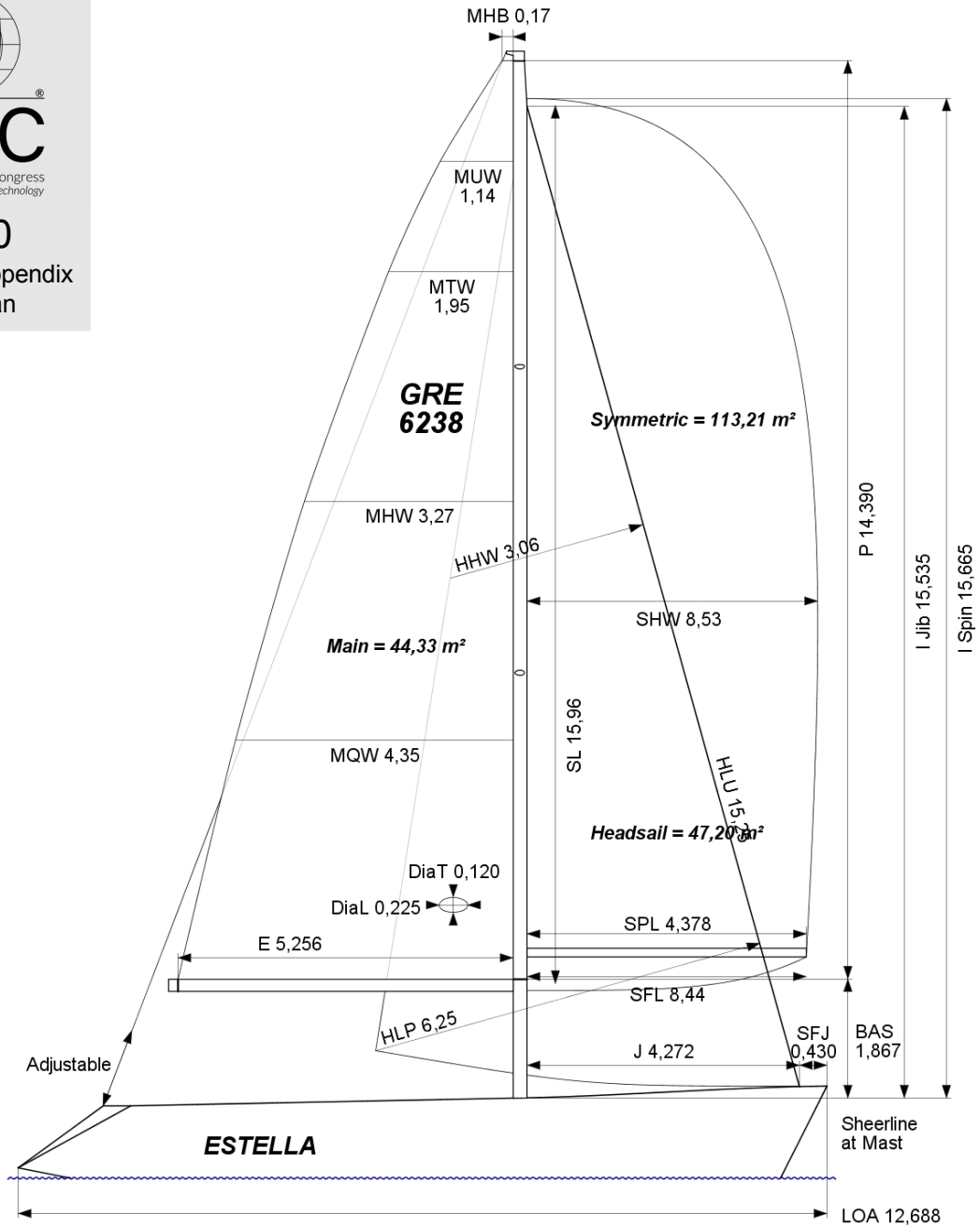
<b>MEASUREMENT INVENTORY</b>							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
6a	Tank	WATER	GRP	300.0	9.95	-0.07	0-0
6b	Tank	WATER	GRP	300.0	3.50	-0.05	0-0
6c	Tank	FUEL	INOX	150.0	10.20	-0.05	25-0
<i>Id</i>	<i>Item</i>	<i>Weight</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	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1		0.75	1.50	3.06	4.65	6.25	15.25	146%	47.20	No			18/09/2008	KAKITSIS	Pentex	
2	0.03	0.73	1.47	3.02	4.60	6.19	15.25	145%	46.55	No			06/03/2013		Unknw	

**SYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	15.96	15.96	15.96	8.53	8.44	113.21		11/07/2020	KAKITSIS	Nylon	
2	15.58	15.58	15.58	7.85	7.77	101.72		05/07/2013		Unknown	
1	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
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