

<b>BOAT</b> Name <b>VENTUS</b> Sail Nr <b>GRE-933</b>	<b>GPH</b> <b>652.8</b>	<b>HULL</b> Length Overall <b>10.944m</b> Maximum Beam <b>3.714m</b> Displacement <b>6,620kg</b> Draft <b>2.099m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.328%</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>SUN FAST 37</b> Designer <b>J. FAUROUX</b> Builder <b>JEANNEAU</b> Series <b>03/2000</b> Age <b>07/2001</b> Age Allowance <b>0.487%</b> Offset File <b>SFAST37.OFF - 29/04/2002 12:10:26</b> Measurement by - <b>05/03/2006</b>		IMSLS <b>9.833m</b> VCGD <b>0.133m</b> Sink <b>21.16kg/mm</b> RL <b>7.844m</b> VCGM <b>0.232m</b> WS <b>28.17m<sup>2</sup></b> LSM0 <b>9.763m</b> Displacement/Length ratio <b>7.1139</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>632.2</b>			<b>704.8</b>		
Time on Time	<b>0.9491</b>			<b>0.9577</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>758.9</b>	<b>575.6</b>	<b>508.2</b>	<b>980.0</b>	<b>712.0</b>	<b>606.1</b>
Time on Time	<b>0.8895</b>	<b>1.1727</b>	<b>1.3282</b>	<b>0.6888</b>	<b>0.9480</b>	<b>1.1137</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1132.3</b>	<b>937.2</b>	<b>826.6</b>	<b>753.9</b>	<b>720.0</b>	<b>709.0</b>	<b>705.2</b>
52°	<b>735.8</b>	<b>622.9</b>	<b>554.8</b>	<b>520.1</b>	<b>505.0</b>	<b>499.5</b>	<b>497.1</b>
60°	<b>694.5</b>	<b>591.7</b>	<b>533.8</b>	<b>506.6</b>	<b>492.8</b>	<b>485.8</b>	<b>482.2</b>
75°	<b>666.0</b>	<b>567.5</b>	<b>518.9</b>	<b>496.1</b>	<b>481.1</b>	<b>470.0</b>	<b>458.2</b>
90°	<b>673.2</b>	<b>560.3</b>	<b>506.2</b>	<b>483.8</b>	<b>474.3</b>	<b>463.0</b>	<b>438.6</b>
110°	<b>666.6</b>	<b>550.8</b>	<b>500.3</b>	<b>475.7</b>	<b>455.3</b>	<b>437.7</b>	<b>419.4</b>
120°	<b>687.1</b>	<b>565.4</b>	<b>506.8</b>	<b>479.9</b>	<b>458.6</b>	<b>437.6</b>	<b>403.9</b>
135°	<b>758.6</b>	<b>618.6</b>	<b>535.6</b>	<b>496.8</b>	<b>474.1</b>	<b>453.0</b>	<b>412.7</b>
150°	<b>894.2</b>	<b>708.4</b>	<b>601.4</b>	<b>532.2</b>	<b>497.3</b>	<b>475.7</b>	<b>436.3</b>
Run VMG	<b>1032.5</b>	<b>818.0</b>	<b>693.4</b>	<b>608.3</b>	<b>548.4</b>	<b>507.8</b>	<b>464.9</b>

**Certificate**  
Number **00654**  
ORC Ref **03420000EPU**  
Issued On **11/03/2020**  
VPP Ver. **2020 1.01**  
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**Crew Weight**  
Default **665kg**  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>687.0</b>	<b>0.8734</b>
Non Spin OSN	<b>663.3</b>	<b>0.9045</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1082.4</b>	<b>877.6</b>	<b>760.0</b>	<b>681.1</b>	<b>634.2</b>	<b>608.4</b>	<b>585.0</b>
Circular Random	<b>907.5</b>	<b>729.5</b>	<b>632.9</b>	<b>576.1</b>	<b>541.1</b>	<b>518.8</b>	<b>492.8</b>
Coastal / Long Distance	<b>1077.4</b>	<b>823.3</b>	<b>682.2</b>	<b>593.6</b>	<b>548.9</b>	<b>518.1</b>	<b>469.9</b>
Non Spinnaker	<b>969.3</b>	<b>773.1</b>	<b>665.2</b>	<b>600.8</b>	<b>560.7</b>	<b>535.0</b>	<b>505.0</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>4</b>

<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>43.5°</b>	<b>41.3°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>39.0°</b>
Beat VMG	<b>3.18</b>	<b>3.84</b>	<b>4.36</b>	<b>4.77</b>	<b>5.00</b>	<b>5.08</b>	<b>5.10</b>
52°	<b>4.89</b>	<b>5.78</b>	<b>6.49</b>	<b>6.92</b>	<b>7.13</b>	<b>7.21</b>	<b>7.24</b>
60°	<b>5.18</b>	<b>6.08</b>	<b>6.74</b>	<b>7.11</b>	<b>7.31</b>	<b>7.41</b>	<b>7.47</b>
75°	<b>5.41</b>	<b>6.34</b>	<b>6.94</b>	<b>7.26</b>	<b>7.48</b>	<b>7.66</b>	<b>7.86</b>
90°	<b>5.35</b>	<b>6.43</b>	<b>7.11</b>	<b>7.44</b>	<b>7.59</b>	<b>7.77</b>	<b>8.21</b>
110°	<b>5.40</b>	<b>6.54</b>	<b>7.20</b>	<b>7.57</b>	<b>7.91</b>	<b>8.22</b>	<b>8.58</b>
120°	<b>5.24</b>	<b>6.37</b>	<b>7.10</b>	<b>7.50</b>	<b>7.85</b>	<b>8.23</b>	<b>8.91</b>
135°	<b>4.75</b>	<b>5.82</b>	<b>6.72</b>	<b>7.25</b>	<b>7.59</b>	<b>7.95</b>	<b>8.72</b>
150°	<b>4.03</b>	<b>5.08</b>	<b>5.99</b>	<b>6.76</b>	<b>7.24</b>	<b>7.57</b>	<b>8.25</b>
Run VMG	<b>3.49</b>	<b>4.40</b>	<b>5.19</b>	<b>5.92</b>	<b>6.56</b>	<b>7.09</b>	<b>7.74</b>
Gybe Angles	<b>146.0°</b>	<b>150.0°</b>	<b>152.0°</b>	<b>156.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **8.836**

**Storm Sails Areas**

Heavy Weather Jib	<b>27.59</b>
Storm Jib (JL=9.30)	<b>10.22</b>
Storm Trysail	<b>10.84</b>

**Owner**

<b>BOAT</b>	
Name <b>VENTUS</b>	Sail Nr <b>GRE-933</b>
File <b>GR933</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>13.090</b>	E <b>4.730</b> MDT1 <b>0.124</b> MW <b>0.200</b>
IG <b>14.219</b>	J <b>3.790</b> MDL1 <b>0.200</b> GO <b>0.220</b>
ISP <b>14.379</b>	SFJ <b>0.000</b> MDT2 <b>0.124</b> BD <b>0.146</b>
BAS <b>1.599</b>	SPL <b>3.925</b> MDL2 <b>0.200</b> MWT <b>149.50</b>
FSD <b>0.041</b>	TPS TL <b>0.000</b> MCG <b>5.141</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>02/01/2013</b>		SG <b>1.0270</b>
FFM <b>1.271</b>	FF <b>1.275</b>	SFFP <b>0.385</b>
FAM <b>1.112</b>	FA <b>1.110</b>	SAFP <b>10.144</b>
W1 <b>99.8</b>	PD1 <b>561.3</b>	WD <b>10.790</b>
W2 <b>99.8</b>	PD2 <b>561.1</b>	GSA <b>1.0</b>
W3 <b>99.8</b>	PD3 <b>559.0</b>	RSA <b>1.0</b>
W4 <b>99.8</b>	PD4 <b>557.7</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>6.066 / 6.339</b>
Maximum beam station from stem		<b>7.170</b>
RM Measured		<b>151.5kg-m</b>
RM Default		<b>154.3kg-m</b>
Limit of positive stability / Stab.Index		<b>105.2° / 106.8</b>
Freeboard at mast at 3.790		<b>1.167</b>



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

<b>PROPELLER</b>		
Installation <b>Shaft exposed</b>	PRD <b>0.370</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.120</b>	
Twin Screw <b>No</b>	PIPA <b>0.0036</b>	
PSA <b>19.800</b>	PHL <b>0.116</b> ST3 <b>0.090</b> ESL <b>0.861</b>	
PSD <b>0.025</b>	ST1 <b>0.022</b> ST4 <b>0.052</b>	
PHD <b>0.050</b>	ST2 <b>0.076</b> ST5 <b>0.230</b>	

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>						
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	
	0.21	1.03	1.81	3.07	4.00	
	<b>Area</b>		<b>Area (r)</b>		<b>Formula</b>	
	37.18		38.01		P/8 · (E + 2 · MQW + 2 · MHW + 1.5 · MTW + MUW + 0.5 · MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>	
	13.95	13.95	13.95	7.33	6.77	
	<b>Area</b>		<b>Area (r)</b>		<b>Formula</b>	
	83.91				SL · (SFL + 4 · SHW) / 6	
<b>Asymmetric</b>						
Not Available						

<b>HEADSAILS</b>												
Area = 0.1125 · HLU · (1.445 · HLP + 2 · HQW + 2 · HHW + 1.5 · HTW + HUW + 0.5 · HHB)												
<b>HHB</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>
0.13	0.69	1.24	2.21	3.13	3.98	13.95	29.89	Y	No	09/03/2019	Pentex	3Light
0.09	0.58	1.10	2.12	3.12	4.13	14.00	29.49	Y	No	21/10/2017	Unknow	Jib Top
0.08	0.53	1.01	2.00	3.00	3.95	14.01	28.05	Y	No	14/09/2017	Carbon	No 3 New
0.07	0.52	0.99	1.97	2.94	3.92	13.93	27.46	Y	No	13/10/2013	Carbon	No 3 Old
					3.75	12.55	23.96	No	No	29/08/2016	Dacron	H.W.JIB
					2.54	8.20	10.61	Y	No	02/07/2011	Dacron	STORM JIB

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>GRE-21</b>				
Date <b>02/01/2013</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
4	Foels	46.0	1.00	1.15 Windlass
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	YANMAR	27HP	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

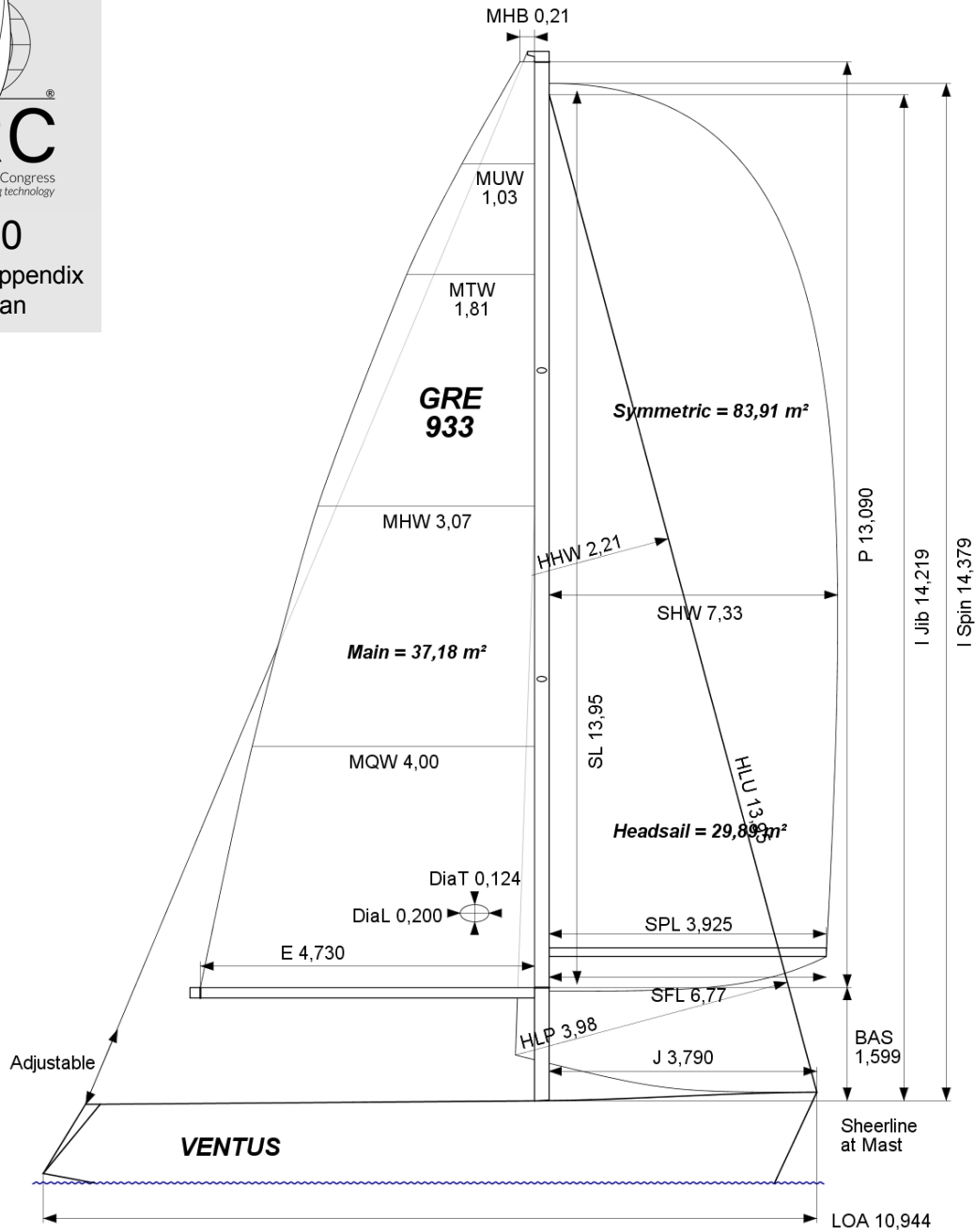
<b>MEASUREMENT INVENTORY</b>						
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG Condtm Description</b>
1	Tank Fuel		PVC	136.0	8.50	5-0
2	Tank Water		PVC	180.0	2.40	0-0
3	Tank Water		PVC	140.0	8.50	0-0
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>		
1	Battery	16.0	5.20	1 x 55Ah		
2	Battery	72.0	7.80	3 x 82Ah		
h	Misc	30.0	6.40	Boiler		



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (3)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.21	1.03	1.81	3.07	4.00	37.18		18/10/2016	QUANTUM	Carbon	
1	0.18	1.02	1.80	3.04	3.98	36.95		05/03/2020	QUANTUM	Carbon	

**HEADSAILS (6)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
3Light	0.13	0.69	1.24	2.21	3.13	3.98	13.95	105%	29.89	Y	No		09/03/2019	QUANTUM	Pentex	3Light
J.Top	0.09	0.58	1.10	2.12	3.12	4.13	14.00	109%	29.49	Y	No		21/10/2017		Unknow	Jib Top
3new	0.08	0.53	1.01	2.00	3.00	3.95	14.01	104%	28.05	Y	No		14/09/2017	QUANTUM	Carbon	No 3 New
3old	0.07	0.52	0.99	1.97	2.94	3.92	13.93	103%	27.46	Y	No		13/10/2013	QUANTUM	Carbon	No 3 Old
4						3.75	12.55	99%	23.96		No		29/08/2016	QUANTUM	Dacron	H.W.JIB
5						2.54	8.20	67%	10.61	Y	No		02/07/2011	QUANTUM	Dacron	STORM JIB

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	13.95	13.95	13.95	7.33	6.77	83.91		09/03/2019	QUANTUM	Nylon	RUNNER
2	13.81	13.81	13.81	7.29	6.88	82.96		09/03/2019	QUANTUM	Nylon	VMG LIGHT
5	14.09	14.09	14.09	7.04	6.67	81.80		09/03/2019	QUANTUM	Nylon	REACHER
3	13.91	13.91	13.91	6.56	6.47	75.84		28/04/2012	QUANTUM	Nylon	HEAVY

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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