

<b>BOAT</b> Name <b>ALLEGRA</b> Sail Nr <b>GBR-3116</b>	<b>GPH</b> <b>607,0</b>	<b>HULL</b> Length Overall <b>11,924m</b> Maximum Beam <b>3,770m</b> Displacement <b>7.550kg</b> Draft <b>2,436m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,151%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 40.7</b> Designer <b>FARR</b> Builder <b>Bennetau</b> Series <b>12/1997</b> Age <b>08/2007</b> Age Allowance <b>0,487%</b> Offset File <b>EFRST407.OFF - 22/11/2000 18:10:00</b> Measurement by <b>Grubiša, Marinov - 31/07/2012</b>		IMSL <b>10,713m</b> VCGD <b>-0,119m</b> Sink <b>22,58kg/mm</b> RL <b>9,044m</b> VCGM <b>0,102m</b> WS <b>30,26m<sup>2</sup></b> LSMO <b>10,653m</b> Displacement/Length ratio <b>6,2450</b>



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ORC International  
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**Rating Office**  
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	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	<b>589,9</b>			<b>659,0</b>		
Time On Time	<b>1,0171</b>			<b>1,0243</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>701,1</b>	<b>536,3</b>	<b>475,9</b>	<b>909,9</b>	<b>664,0</b>	<b>567,8</b>
Time on Time	<b>0,9628</b>	<b>1,2587</b>	<b>1,4183</b>	<b>0,7418</b>	<b>1,0166</b>	<b>1,1887</b>

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1038,0</b>	<b>861,0</b>	<b>755,9</b>	<b>702,2</b>	<b>678,6</b>	<b>666,6</b>	<b>647,5</b>
52°	<b>677,7</b>	<b>568,6</b>	<b>507,8</b>	<b>484,5</b>	<b>476,1</b>	<b>471,8</b>	<b>464,8</b>
60°	<b>637,6</b>	<b>537,3</b>	<b>490,1</b>	<b>471,0</b>	<b>462,8</b>	<b>458,4</b>	<b>453,2</b>
75°	<b>604,6</b>	<b>514,6</b>	<b>478,0</b>	<b>459,2</b>	<b>446,1</b>	<b>437,7</b>	<b>430,8</b>
90°	<b>605,1</b>	<b>513,7</b>	<b>473,6</b>	<b>457,0</b>	<b>441,1</b>	<b>426,2</b>	<b>405,9</b>
110°	<b>621,2</b>	<b>511,5</b>	<b>468,3</b>	<b>445,0</b>	<b>430,4</b>	<b>419,8</b>	<b>401,4</b>
120°	<b>639,6</b>	<b>524,8</b>	<b>474,7</b>	<b>449,9</b>	<b>427,3</b>	<b>407,1</b>	<b>386,8</b>
135°	<b>707,6</b>	<b>574,8</b>	<b>499,5</b>	<b>466,2</b>	<b>444,4</b>	<b>422,6</b>	<b>380,0</b>
150°	<b>840,5</b>	<b>667,3</b>	<b>563,4</b>	<b>498,6</b>	<b>467,5</b>	<b>446,8</b>	<b>406,4</b>
Run VMG	<b>970,5</b>	<b>770,5</b>	<b>650,5</b>	<b>570,3</b>	<b>517,6</b>	<b>479,4</b>	<b>437,3</b>

**Certificate**  
Number **311603**  
ORC Ref **ESP00024171**  
Issued On **11/10/2017**  
VPP Ver. **2017 1.00**  
Valid until **31/12/2017**

**Crew Weight**  
Declared **625kg**  
Default\* **753kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>609,5</b>	<b>0,9845</b>
Double H.OSN	<b>593,4</b>	<b>1,0112</b>
Non Spin GPH	<b>637,1</b>	<b>0,9418</b>
Non Spin OSN	<b>618,7</b>	<b>0,9697</b>

Selected Courses							
Windward / Leeward	<b>1004,2</b>	<b>815,7</b>	<b>703,2</b>	<b>636,2</b>	<b>598,1</b>	<b>573,0</b>	<b>542,4</b>
Circular Random	<b>839,8</b>	<b>676,6</b>	<b>588,7</b>	<b>537,5</b>	<b>506,0</b>	<b>485,3</b>	<b>458,7</b>
Ocean for PCS	<b>1030,7</b>	<b>794,7</b>	<b>661,2</b>	<b>579,6</b>	<b>526,9</b>	<b>490,6</b>	<b>441,1</b>
Non Spinnaker	<b>893,7</b>	<b>714,8</b>	<b>617,1</b>	<b>559,3</b>	<b>523,3</b>	<b>499,7</b>	<b>469,8</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</b>

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	<b>43,1°</b>	<b>41,7°</b>	<b>41,6°</b>	<b>40,2°</b>	<b>39,0°</b>	<b>38,3°</b>	<b>38,3°</b>
Beat VMG	<b>3,47</b>	<b>4,18</b>	<b>4,76</b>	<b>5,13</b>	<b>5,30</b>	<b>5,40</b>	<b>5,56</b>
52°	<b>5,31</b>	<b>6,33</b>	<b>7,09</b>	<b>7,43</b>	<b>7,56</b>	<b>7,63</b>	<b>7,75</b>
60°	<b>5,65</b>	<b>6,70</b>	<b>7,35</b>	<b>7,64</b>	<b>7,78</b>	<b>7,85</b>	<b>7,94</b>
75°	<b>5,95</b>	<b>7,00</b>	<b>7,53</b>	<b>7,84</b>	<b>8,07</b>	<b>8,22</b>	<b>8,36</b>
90°	<b>5,95</b>	<b>7,01</b>	<b>7,60</b>	<b>7,88</b>	<b>8,16</b>	<b>8,45</b>	<b>8,87</b>
110°	<b>5,80</b>	<b>7,04</b>	<b>7,69</b>	<b>8,09</b>	<b>8,36</b>	<b>8,57</b>	<b>8,97</b>
120°	<b>5,63</b>	<b>6,86</b>	<b>7,58</b>	<b>8,00</b>	<b>8,43</b>	<b>8,84</b>	<b>9,31</b>
135°	<b>5,09</b>	<b>6,26</b>	<b>7,21</b>	<b>7,72</b>	<b>8,10</b>	<b>8,52</b>	<b>9,47</b>
150°	<b>4,28</b>	<b>5,40</b>	<b>6,39</b>	<b>7,22</b>	<b>7,70</b>	<b>8,06</b>	<b>8,86</b>
Run VMG	<b>3,71</b>	<b>4,67</b>	<b>5,53</b>	<b>6,31</b>	<b>6,96</b>	<b>7,51</b>	<b>8,23</b>
Gybe Angles	<b>144,7°</b>	<b>149,2°</b>	<b>150,3°</b>	<b>155,5°</b>	<b>170,5°</b>	<b>180,0°</b>	<b>180,0°</b>

**Class Division Length**  
CDL = **9,879**

**Storm Sails Areas**


Heavy Weather Jib	<b>33,06</b>
Storm Jib (JL=10,17)	<b>12,25</b>
Storm Triesail	<b>14,03</b>

**Owner**

<b>BOAT</b>	
Name <b>ALLEGRA</b> File <b>GBR3116</b>	Sail Nr <b>GBR-3116</b> Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>31/07/2012</b>	SG <b>1,0250</b>	
FFM <b>1,323</b>	FF <b>1,318</b>	SFFP <b>0,292</b>
FAM <b>1,095</b>	FA <b>1,115</b>	SAFP <b>11,313</b>
W1 <b>100,0</b>	PD1 <b>543,9</b>	WD <b>11,790</b>
W2 <b>100,0</b>	PD2 <b>537,7</b>	GSA <b>1,0</b>
W3 <b>100,0</b>	PD3 <b>538,0</b>	RSA <b>1,0</b>
W4 <b>100,0</b>	PD4 <b>537,8</b>	PLM <b>9000,0</b>
LCF from stem on CL / on sheer		<b>6,482 / 6,720</b>
Maximum beam station from stem		<b>7,502</b>
RM Measured		<b>172,1kg·m</b>
RM Default		<b>182,3kg·m</b>
Limit of positive stability / Stab.Index		<b>113,9° / 117,4</b>
Freeboard at mast at 4,405		<b>1,192</b>

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Stay <b>None Fitted</b>	Runners <b>0</b>		
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>		
Taper Hollows <b>No</b>	Jib Furler <b>No</b>		
Fiber Rigging <b>No</b>	Main Furler <b>No</b>		
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>		
Articulated Bowsprit <b>No</b>			
P <b>14,850</b>	E <b>5,400</b>	MDT1 <b>0,135</b>	MW <b>0,240</b>
IG <b>15,536</b>	J <b>4,405</b>	MDL1 <b>0,240</b>	GO <b>0,272</b>
ISP <b>15,836</b>	SFJ <b>0,000</b>	MDT2 <b>0,130</b>	BD <b>0,190</b>
BAS <b>1,724</b>	SPL <b>4,480</b>	MDL2 <b>0,186</b>	MWT
FSP <b>0,072</b>	TPS	TL <b>1,040</b>	MCG



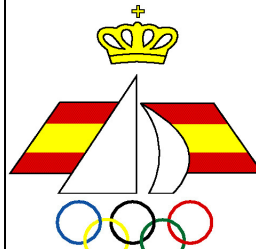
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**IMS Measurement Certificate**

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,437</b>	
Type <b>Folding 2 blades</b>	PBW <b>0,112</b>	
Twin Screw <b>No</b>	PIPA <b>0,0035</b>	
ST1 <b>0,042</b>	ST3 <b>0,180</b>	ST5 <b>0,295</b>
ST2 <b>0,180</b>	ST4 <b>0,112</b>	EDL <b>2,265</b>

<b>COMMENTS</b>	

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,180	1,16	2,01	3,48	4,50	47,57	48,60	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	112,58		SL · (SFL + 4·SHW) / 6	
	16,03	16,03	16,03	8,47	8,26				
Asymmetric Not Available									

<b>HEADSAILS</b>												
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	0,82	1,54	2,69	3,74	4,68	15,47	39,68	Y			Unknow	
0,00	0,00	0,00	0,00	0,00	4,18	15,30	32,56	Y		03/10/2007	Dacron	G-3

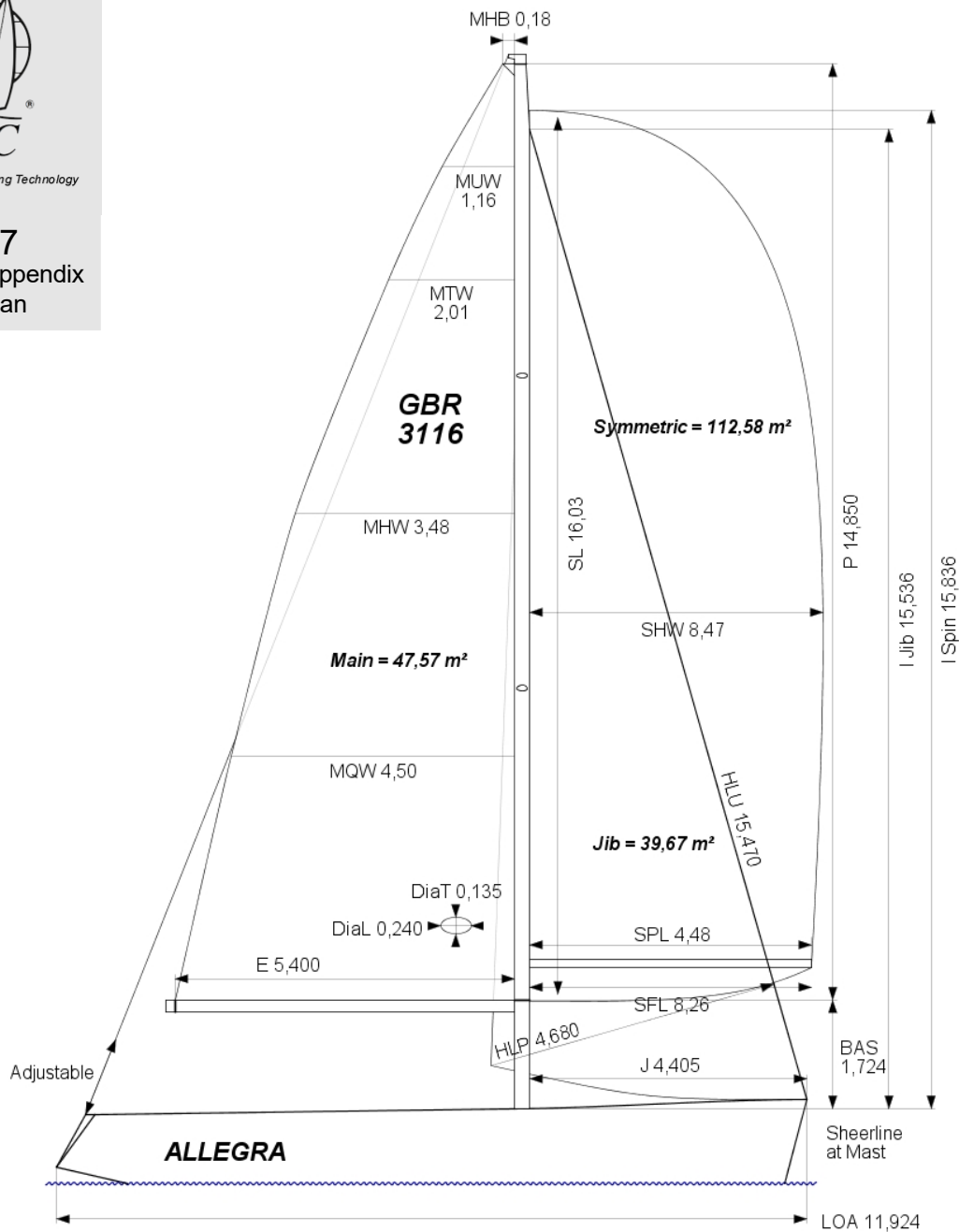
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Marinov CRO 5</b>				
Date <b>31/07/2012</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
+	Anchor	12,0	4,70	
+	Chain	10,0	4,70	rope 50 m x 10-
+	Tools	20,0	6,10	tool-box, spare-
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANMAR	3JH4E	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
+	Deck-Gear	14,0	sheets, blocks	
+	Fwd Items	5,0	life-jacket, harness	

<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</i>	<i>Description</i>	
4	Tank Boiler		INOX - FIX	25,0	8,90			25,0	starboard side
4	Tank Holding		PVC - FIX	80,0	2,80			0,0	center line
3	Tank Diesel		PVC - FIX	138,0	9,30			130,0	center
2	Tank Water		PVC - FIX	140,0	5,70			0,0	starbord side
1	Tank Water		PVC - FIX	140,0	5,70			0,0	port side
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
1	Battery		7,40	2x 108 Ah, 1 x 75 Ah					
1	Misc	4,0	11,00	gas bottle					



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,180	1,16	2,01	3,48	4,50	47,57	Marinov	09/06/2009	North sails	Kevlar	

**HEADSAILS (2)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
4	0,09	0,82	1,54	2,69	3,74	4,68	15,47	106%	39,68	Y						Unknow
2	0,00	0,00	0,00	0,00	0,00	4,18	15,30	95%	32,56	Y		Grubisa	03/10/2007	Grego	Dacron	G-3

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	16,03	16,03	16,03	8,47	8,26	112,58	D - 206	30/10/2003	North sails	Nylon	S 1,5

**ASYMMETRIC SPINNAKERS (0)**

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