

<b>BOAT</b>
Name <b>MELISSA II</b> Sail Nr <b>GRE-820</b>

<b>GPH</b>
<b>627,1</b>

<b>HULL</b>
Length Overall <b>11,710 m</b>
Maximum Beam <b>3,944 m</b>
Displacement <b>7.810 kg</b>
Draft <b>2,437 m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0,283%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Crew Arm Extension
IMS L <b>10,591</b> VCGD <b>0,117</b> VCGM <b>0,086</b>
Sink <b>23,82 kg/mm</b> Wetted Area <b>32,06 m<sup>2</sup></b>

<b>GENERAL</b>
Class <b>SUN FAST 40</b>
Designer <b>Daniel ANDRIEU</b>
Builder <b>JEANNEAU SA</b>
Series <b>07/1999</b>
Age <b>11/1999</b>
Age Allowance <b>0,487%</b>
Offset File <b>F182.OFF - 6/5/2014 23:28:34</b>
Measurement by <b>TSALTAS/NAKIS - 20/05/2008</b>



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<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>608,2</b>			<b>677,4</b>		
Time On Time	<b>0,9865</b>			<b>0,9965</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,815</b>	<b>88,0</b>		<b>0,746</b>	<b>135,6</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9210</b>	<b>1,2222</b>	<b>1,3971</b>	<b>0,7065</b>	<b>0,9840</b>	<b>1,1759</b>

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<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1071,4</b>	<b>885,6</b>	<b>779,5</b>	<b>710,5</b>	<b>678,9</b>	<b>662,5</b>	<b>649,7</b>
52°	<b>694,4</b>	<b>582,5</b>	<b>518,2</b>	<b>488,2</b>	<b>475,8</b>	<b>470,1</b>	<b>465,3</b>
60°	<b>651,8</b>	<b>549,6</b>	<b>498,2</b>	<b>475,4</b>	<b>463,0</b>	<b>456,8</b>	<b>451,6</b>
75°	<b>618,2</b>	<b>525,0</b>	<b>485,1</b>	<b>465,3</b>	<b>450,6</b>	<b>438,6</b>	<b>426,2</b>
90°	<b>624,2</b>	<b>529,7</b>	<b>485,5</b>	<b>463,9</b>	<b>452,5</b>	<b>437,5</b>	<b>412,3</b>
110°	<b>654,5</b>	<b>537,4</b>	<b>484,5</b>	<b>459,9</b>	<b>439,1</b>	<b>419,9</b>	<b>402,1</b>
120°	<b>677,5</b>	<b>556,2</b>	<b>493,3</b>	<b>466,2</b>	<b>446,2</b>	<b>425,7</b>	<b>390,9</b>
135°	<b>758,8</b>	<b>615,5</b>	<b>529,6</b>	<b>485,8</b>	<b>462,9</b>	<b>443,6</b>	<b>404,8</b>
150°	<b>904,2</b>	<b>710,9</b>	<b>600,2</b>	<b>526,8</b>	<b>486,4</b>	<b>463,9</b>	<b>426,1</b>
Run VMG	<b>1044,1</b>	<b>820,8</b>	<b>690,5</b>	<b>599,7</b>	<b>533,3</b>	<b>491,9</b>	<b>449,3</b>

<b>Certificate</b>
Number <b>000113</b>
ORC Ref <b>GRE00056845</b>
Issued On <b>7/5/2014</b>
VPP Ver. <b>2014 1.01</b>
Valid until <b>1/3/2015</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1057,7</b>	<b>853,2</b>	<b>735,0</b>	<b>655,1</b>	<b>606,1</b>	<b>577,2</b>	<b>549,5</b>
Circular Random	<b>875,7</b>	<b>702,4</b>	<b>607,8</b>	<b>551,8</b>	<b>516,8</b>	<b>493,8</b>	<b>465,1</b>
Ocean for PCS	<b>933,2</b>	<b>733,5</b>	<b>621,3</b>	<b>552,4</b>	<b>507,4</b>	<b>475,9</b>	<b>432,2</b>
Non Spinnaker	<b>923,8</b>	<b>736,4</b>	<b>633,1</b>	<b>571,2</b>	<b>532,2</b>	<b>506,6</b>	<b>475,2</b>

<b>Crew Weight</b>	
Declared	<b>750 kg</b>
Default*	<b>739 kg</b>
Non Manual Pwr	<b>No</b>

<b>Special Scoring</b>		
	ToD	ToT
Double H.GPH	<b>628,9</b>	<b>0,9541</b>
Double H.OSN	<b>611,1</b>	<b>0,9818</b>
Non Spin GPH	<b>653,8</b>	<b>0,9177</b>
Non Spin OSN	<b>632,5</b>	<b>0,9487</b>
N/S Perf. Line	<b>62,5</b>	<b>0,744</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>43,9°</b>	<b>42,5°</b>	<b>42,2°</b>	<b>40,9°</b>	<b>39,3°</b>	<b>38,9°</b>	<b>38,3°</b>
Beat VMG	<b>3,36</b>	<b>4,07</b>	<b>4,62</b>	<b>5,07</b>	<b>5,30</b>	<b>5,43</b>	<b>5,54</b>
52°	<b>5,18</b>	<b>6,18</b>	<b>6,95</b>	<b>7,37</b>	<b>7,57</b>	<b>7,66</b>	<b>7,74</b>
60°	<b>5,52</b>	<b>6,55</b>	<b>7,23</b>	<b>7,57</b>	<b>7,78</b>	<b>7,88</b>	<b>7,97</b>
75°	<b>5,82</b>	<b>6,86</b>	<b>7,42</b>	<b>7,74</b>	<b>7,99</b>	<b>8,21</b>	<b>8,45</b>
90°	<b>5,77</b>	<b>6,80</b>	<b>7,41</b>	<b>7,76</b>	<b>7,96</b>	<b>8,23</b>	<b>8,73</b>
110°	<b>5,50</b>	<b>6,70</b>	<b>7,43</b>	<b>7,83</b>	<b>8,20</b>	<b>8,57</b>	<b>8,95</b>
120°	<b>5,31</b>	<b>6,47</b>	<b>7,30</b>	<b>7,72</b>	<b>8,07</b>	<b>8,46</b>	<b>9,21</b>
135°	<b>4,74</b>	<b>5,85</b>	<b>6,80</b>	<b>7,41</b>	<b>7,78</b>	<b>8,12</b>	<b>8,89</b>
150°	<b>3,98</b>	<b>5,06</b>	<b>6,00</b>	<b>6,83</b>	<b>7,40</b>	<b>7,76</b>	<b>8,45</b>
Run VMG	<b>3,45</b>	<b>4,39</b>	<b>5,21</b>	<b>6,00</b>	<b>6,75</b>	<b>7,32</b>	<b>8,01</b>
Gybe Angles	<b>144,6°</b>	<b>150,2°</b>	<b>156,1°</b>	<b>168,2°</b>	<b>173,2°</b>	<b>177,8°</b>	<b>179,0°</b>

<b>Sails Limitations</b>		
Genoas	Jibs	Spinnakers
<b>3</b>	<b>2</b>	<b>3</b>
Spinnaker configuration <b>Symmetric</b>		

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>35,22</b>
Storm Jib (JL=10,50)	<b>13,04</b>
Storm Try sail	<b>12,48</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>MELISSA II</b>	Sail Nr <b>GRE-820</b>
File <b>(0)</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>20/05/2008</b>	SG <b>1,0250</b>	
FFM <b>1,336</b>	FF <b>1,333</b>	SFFP <b>0,626</b>
FAM <b>1,079</b>	FA <b>1,086</b>	SAFP <b>10,840</b>
W1 <b>110,00</b>	PD1 <b>232,0</b>	WD <b>12,250</b>
W2 <b>110,00</b>	PD2 <b>232,0</b>	GSA <b>50,0</b>
W3 <b>110,00</b>	PD3 <b>232,0</b>	RSA <b>5675,0</b>
W4 <b>110,00</b>	PD4 <b>232,0</b>	PLM <b>2010,0</b>
LCF from stem on CL / on sheer		<b>6,462 / 6,745</b>
Maximum beam station from stem		<b>7,414</b>
RM Measured / Default		<b>202,5 / 201,7</b>
Limit of positive stability / Stab.Index		<b>112,5° / 114,9</b>
Freeboard at mast at 4,215		<b>1,214</b>




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<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>3</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>14,700</b>	E <b>4,850</b>	MDT1 <b>0,139</b>	MW <b>0,168</b>	
IG <b>15,976</b>	J <b>4,215</b>	MDL1 <b>0,206</b>	GO <b>0,214</b>	
ISP <b>16,076</b>	SFJ <b>0,000</b>	MDT2 <b>0,125</b>	BD <b>0,171</b>	
BAS <b>1,677</b>	SPL <b>4,229</b>	MDL2 <b>0,156</b>	MWT <b>213,20</b>	
FSP <b>0,078</b>	TPS	TL <b>2,255</b>	MCG <b>6,684</b>	

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

<b>PROPELLER</b>		
Installation <b>Shaft exposed</b>	PRD <b>0,457</b>	
Type <b>Feathering 3 blades</b>	PBW <b>0,153</b>	
Twin Screw <b>No</b>	PIPA <b>0,0052</b>	
PSA <b>20,300</b>	PHL <b>0,130</b>	ST3 <b>0,115</b> ESL <b>1,024</b>
PSD <b>0,030</b>	ST1 <b>0,024</b>	ST4 <b>0,058</b>
PHD <b>0,060</b>	ST2 <b>0,097</b>	ST5 <b>0,250</b>

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>							
Mainsail	HB	MGT	MGU	MGM	MGL		
	0,160	0,96	1,73	3,06	4,03		
	Area					Area (r)	Formula
	41,65					42,31	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric	SL	SMG	SF				
	15,98	7,94	7,58	104,78			
Asymmetric	Not Available						

<b>HEADSAILS</b>												
Area = $0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0,07	0,74	1,44	2,94	4,55	6,20	15,64	47,28			01/04/2009	Kevlar	
0,09	0,74	1,41	2,88	4,49	6,14	15,50	46,23			01/04/2009	Kevlar	
0,07	0,70	1,37	2,77	4,28	5,83	15,08	42,95			01/04/2009	Pentex	
0,00	0,54	1,03	2,13	3,25	4,24	15,54	33,35			05/09/2009	Kevlar	
0,00					3,96	13,10	27,11				Dacron	

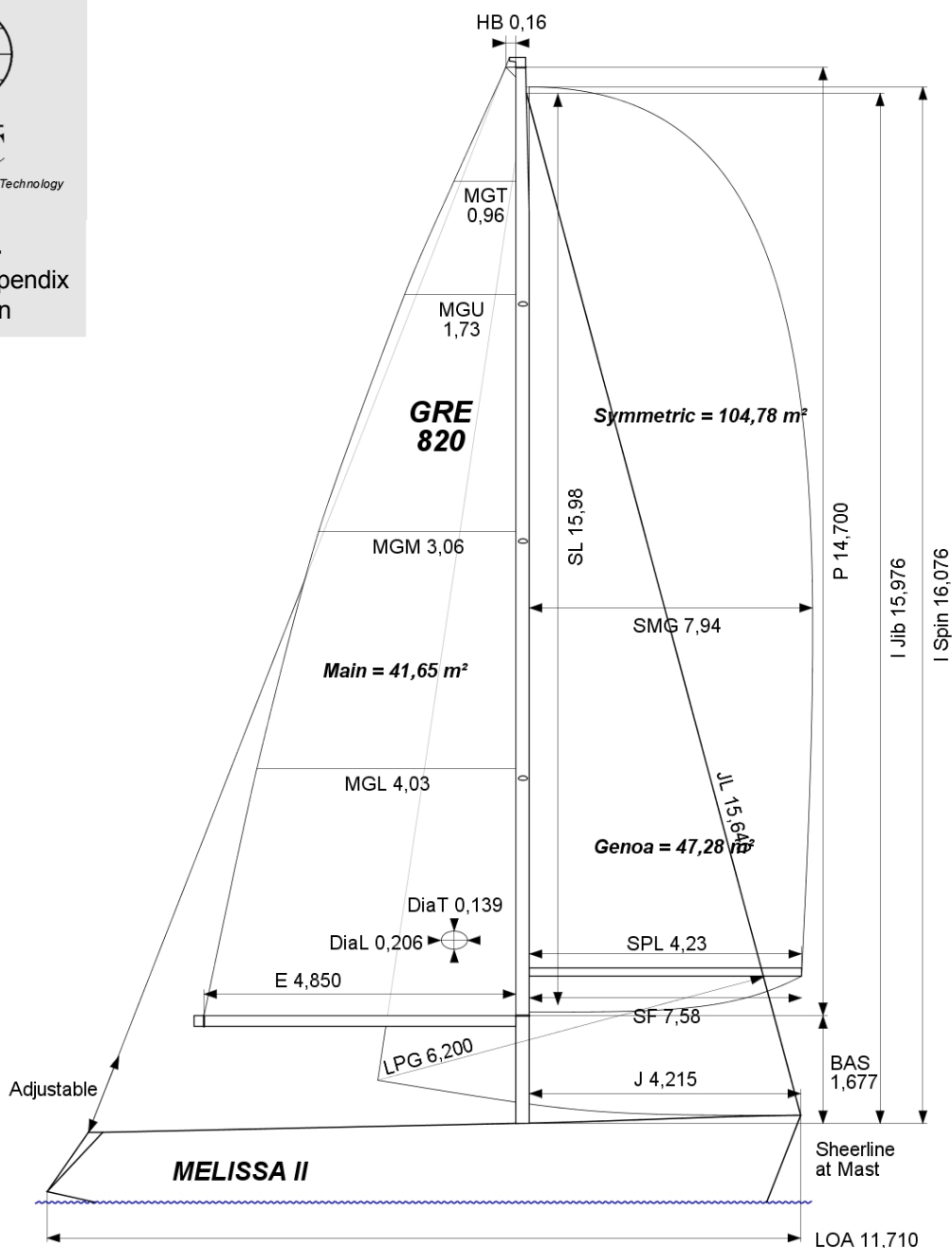
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>NAKIS GRE-20</b>				
Date <b>20/05/2008</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
2	Anchor	15,0	10,90	CQR
1	Anchor	15,0	0,70	DELTA
2	Chain	25,0	10,90	8 mm
1	Tools	10,0	9,85	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANMAR	4JH3E	
<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 Condtn Description</i>
4	Tank	WATER	INOX	150,0	2,75	0,0
3	Tank	WATER	INOX	150,0	2,15	0,0
2	Tank	WATER	INOX	150,0	9,50	0,0
1	Tank	FUEL	INOX	150,0	9,50	0,0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
3	Battery	28,0	8,70	150 Amh		
2	Battery	5,0	8,70	50 Amh		
1	Battery	28,0	8,70	150 Amh		
2	Misc	10,0	6,00	WATER HEATER		
1	Misc	15,0	1,30	ANCHOR WINDLASS		



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Sail Plan



**SAILS INVENTORY**

MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,160	0,96	1,73	3,06	4,03	41,65	NAKIS	05/09/2009	KAFETZIDA	Kevlar						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
LIGHT	0,07	0,74	1,44	2,94	4,55	6,20	15,64	147%	47,28			L.NAKIS	01/04/2009	KAFETZIDA	Kevlar	
MEDI	0,09	0,74	1,41	2,88	4,49	6,14	15,50	146%	46,23			NAKIS	01/04/2009	KAFETZIDA	Kevlar	
HEAV	0,07	0,70	1,37	2,77	4,28	5,83	15,08	138%	42,95			NAKIS	01/04/2009	KAFETZIDA	Pentex	
No 3	0,00	0,54	1,03	2,13	3,25	4,24	15,54	101%	33,35			NAKIS	05/09/2009	KAFETZIDA	Kevlar	
NO4	0,00					3,96	13,10	94%	27,11							Dacron
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
1	15,98	7,94	7,58	104,78	NAKIS	05/09/2009	KAFETZIDA	Polyester								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				