

<b>BOAT</b>
Name <b>Malin</b> Sail Nr <b>Swe 88</b>

<b>GPH</b>
<b>620,4</b>

<b>HULL</b>
Length Overall <b>10,640 m</b>
Maximum Beam <b>3,458 m</b>
Displacement <b>6.017 kg</b>
Draft <b>2,237 m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0,000%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Crew Arm Extension
IMS L <b>9,692</b> VCGD <b>0,125</b> VCGM <b>0,093</b>
Sink <b>19,92 kg/mm</b> Wetted Area <b>26,17 m<sup>2</sup></b>



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Certificate

<b>GENERAL</b>
Class <b>First 36.7 mod</b>
Designer <b>Farr yacht design</b>
Builder <b>Benetau</b>
Series <b>09/2001</b>
Age <b>09/2001</b>
Age Allowance <b>0,422%</b>
Offset File <b>F196MOD.off - 16/7/2014 06:16:26</b>
Measurement by <b>T. Andersson - 31/05/2011</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>604,7</b>			<b>670,8</b>		
Time On Time	<b>0,9923</b>			<b>1,0062</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,902</b>	<b>137,3</b>		<b>0,871</b>	<b>217,2</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9567</b>	<b>1,2247</b>	<b>1,3638</b>	<b>0,7379</b>	<b>0,9998</b>	<b>1,1558</b>

**Rating Office**

Offshore  
Racing  
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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>1016,2</b>	<b>853,4</b>	<b>755,6</b>	<b>712,3</b>	<b>691,6</b>	<b>679,1</b>	<b>677,2</b>
52°	<b>665,1</b>	<b>563,2</b>	<b>515,5</b>	<b>499,6</b>	<b>492,7</b>	<b>488,9</b>	<b>485,5</b>
60°	<b>627,2</b>	<b>537,3</b>	<b>501,7</b>	<b>486,6</b>	<b>479,9</b>	<b>476,2</b>	<b>472,5</b>
75°	<b>595,7</b>	<b>520,5</b>	<b>491,9</b>	<b>474,3</b>	<b>461,5</b>	<b>454,5</b>	<b>449,1</b>
90°	<b>600,1</b>	<b>523,0</b>	<b>492,7</b>	<b>475,7</b>	<b>459,1</b>	<b>443,5</b>	<b>425,6</b>
110°	<b>632,7</b>	<b>528,5</b>	<b>490,3</b>	<b>466,1</b>	<b>445,2</b>	<b>434,0</b>	<b>417,7</b>
120°	<b>653,2</b>	<b>542,1</b>	<b>497,1</b>	<b>472,8</b>	<b>449,7</b>	<b>427,4</b>	<b>405,2</b>
135°	<b>725,9</b>	<b>595,2</b>	<b>523,3</b>	<b>491,2</b>	<b>469,0</b>	<b>446,7</b>	<b>403,8</b>
150°	<b>862,3</b>	<b>687,4</b>	<b>584,3</b>	<b>521,2</b>	<b>490,9</b>	<b>469,3</b>	<b>426,5</b>
Run VMG	<b>995,7</b>	<b>793,7</b>	<b>671,7</b>	<b>585,6</b>	<b>526,8</b>	<b>494,5</b>	<b>451,6</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1005,9</b>	<b>823,6</b>	<b>713,6</b>	<b>649,0</b>	<b>609,2</b>	<b>586,8</b>	<b>564,4</b>
Circular Random	<b>848,1</b>	<b>687,7</b>	<b>602,3</b>	<b>553,1</b>	<b>523,2</b>	<b>504,0</b>	<b>480,7</b>
Ocean for PCS	<b>902,9</b>	<b>717,9</b>	<b>615,5</b>	<b>553,6</b>	<b>513,4</b>	<b>484,9</b>	<b>444,5</b>
Non Spinnaker	<b>892,1</b>	<b>718,8</b>	<b>625,2</b>	<b>570,4</b>	<b>536,6</b>	<b>514,8</b>	<b>489,0</b>

<b>Certificate</b>
Number <b>5841</b>
ORC Ref <b>SSF00001063</b>
Issued On <b>16/7/2014</b>
VPP Ver. <b>2014 1.01</b>
Valid until <b>31/12/2014</b>

<b>Crew Weight</b>
Declared <b>658 kg</b>
Default* <b>651 kg</b>
Non Manual Pwr <b>No</b>

<b>Special Scoring</b>
ToD ToT
Double H.GPH <b>624,5 0,9607</b>
Double H.OSN <b>610,0 0,9836</b>
Non Spin GPH <b>644,6 0,9308</b>
Non Spin OSN <b>627,3 0,9565</b>
N/S Perf. Line <b>107,0 0,822</b>

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

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>30,91</b>
Storm Jib (JL=9,84) <b>11,45</b>
Storm Try sail <b>12,56</b>

<b>Owner</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>43,1°</b>	<b>42,5°</b>	<b>41,4°</b>	<b>39,4°</b>	<b>38,6°</b>	<b>37,9°</b>	<b>38,4°</b>
Beat VMG	<b>3,54</b>	<b>4,22</b>	<b>4,76</b>	<b>5,05</b>	<b>5,20</b>	<b>5,30</b>	<b>5,32</b>
52°	<b>5,41</b>	<b>6,39</b>	<b>6,98</b>	<b>7,21</b>	<b>7,31</b>	<b>7,36</b>	<b>7,41</b>
60°	<b>5,74</b>	<b>6,70</b>	<b>7,18</b>	<b>7,40</b>	<b>7,50</b>	<b>7,56</b>	<b>7,62</b>
75°	<b>6,04</b>	<b>6,92</b>	<b>7,32</b>	<b>7,59</b>	<b>7,80</b>	<b>7,92</b>	<b>8,02</b>
90°	<b>6,00</b>	<b>6,88</b>	<b>7,31</b>	<b>7,57</b>	<b>7,84</b>	<b>8,12</b>	<b>8,46</b>
110°	<b>5,69</b>	<b>6,81</b>	<b>7,34</b>	<b>7,72</b>	<b>8,09</b>	<b>8,29</b>	<b>8,62</b>
120°	<b>5,51</b>	<b>6,64</b>	<b>7,24</b>	<b>7,61</b>	<b>8,00</b>	<b>8,42</b>	<b>8,88</b>
135°	<b>4,96</b>	<b>6,05</b>	<b>6,88</b>	<b>7,33</b>	<b>7,68</b>	<b>8,06</b>	<b>8,92</b>
150°	<b>4,17</b>	<b>5,24</b>	<b>6,16</b>	<b>6,91</b>	<b>7,33</b>	<b>7,67</b>	<b>8,44</b>
Run VMG	<b>3,62</b>	<b>4,54</b>	<b>5,36</b>	<b>6,15</b>	<b>6,83</b>	<b>7,28</b>	<b>7,97</b>
Gybe Angles	<b>144,7°</b>	<b>150,7°</b>	<b>155,0°</b>	<b>168,1°</b>	<b>176,2°</b>	<b>179,0°</b>	<b>179,0°</b>

<b>BOAT</b>	
Name <b>Malin</b>	Sail Nr <b>Swe 88</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>31/05/2011</b>	SG <b>1,0020</b>	
FFM <b>1,365</b>	FF <b>1,371</b>	SFFP <b>0,367</b>
FAM <b>0,988</b>	FA <b>1,002</b>	SAFP <b>10,162</b>
W1 <b>78,500</b>	PD1 <b>230,0</b>	WD <b>11,850</b>
W2 <b>78,500</b>	PD2 <b>230,0</b>	GSA <b>1,0</b>
W3 <b>78,500</b>	PD3 <b>230,0</b>	RSA <b>1,0</b>
W4 <b>78,500</b>	PD4 <b>230,0</b>	PLM <b>4000,0</b>
LCF from stem on CL / on sheer		<b>6,006 / 6,236</b>
Maximum beam station from stem		<b>6,980</b>
RM Measured / Default		<b>141,6 / 150,7</b>
Limit of positive stability / Stab.Index		<b>113,6° / 116,4</b>
Freeboard at mast at 3,977		<b>1,192</b>



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<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>Yes</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>14,350</b>	E <b>5,000</b>	MDT1 <b>0,140</b>	MW <b>0,215</b>	
IG <b>15,037</b>	J <b>3,977</b>	MDL1 <b>0,215</b>	GO <b>0,240</b>	
ISP <b>15,687</b>	SFJ <b>0,000</b>	MDT2 <b>0,120</b>	BD <b>0,250</b>	
BAS <b>1,585</b>	SPL <b>4,250</b>	MDL2 <b>0,198</b>	MWT <b>153,50</b>	
FSP <b>0,068</b>	TPS <b>4,332</b>	TL <b>1,080</b>	MCG <b>5,650</b>	

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,406</b>	
Type <b>Folding</b>	PBW <b>0,120</b>	
Twin Screw <b>No</b>	PIPA <b>0,0031</b>	
ST1 <b>0,048</b>	ST3 <b>0,170</b>	ST5 <b>0,283</b>
ST2 <b>0,170</b>	ST4 <b>0,098</b>	EDL <b>2,481</b>

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

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

<b>COMMENTS</b>	
First 36.7 Malin	

<b>CENTERBOARD</b>		
N/A		



Invalid for racing

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<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0,200	1,13	1,96	3,25	4,16	43,03	43,95	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric	SL	SMG	SF				98,92	SL · (SF + 4·SMG) / 6	
	15,38	7,75	7,59						
Asymmetric Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0,08	0,71	1,41	2,87	4,36	5,90	14,89	43,30				Unknow	
0,12	0,79	1,47	2,84	4,38	5,98	14,60	42,93				Unknow	
0,10	0,67	1,32	2,71	4,22	5,86	14,86	41,84		Y		Unknow	
0,09	0,61	1,18	2,22	3,24	4,22	14,93	32,66		N		Unknow	
0,08	0,51	0,97	1,90	2,92	3,98	14,86	29,08				Unknow	
0,07	0,46	0,85	1,77	2,82	4,01	14,05	26,47				Unknow	
0,06			1,57		2,95	13,30	20,17		Y		Unknow	
0,10	0,35	0,63	1,28	2,03	2,84	8,00	10,86				Unknow	

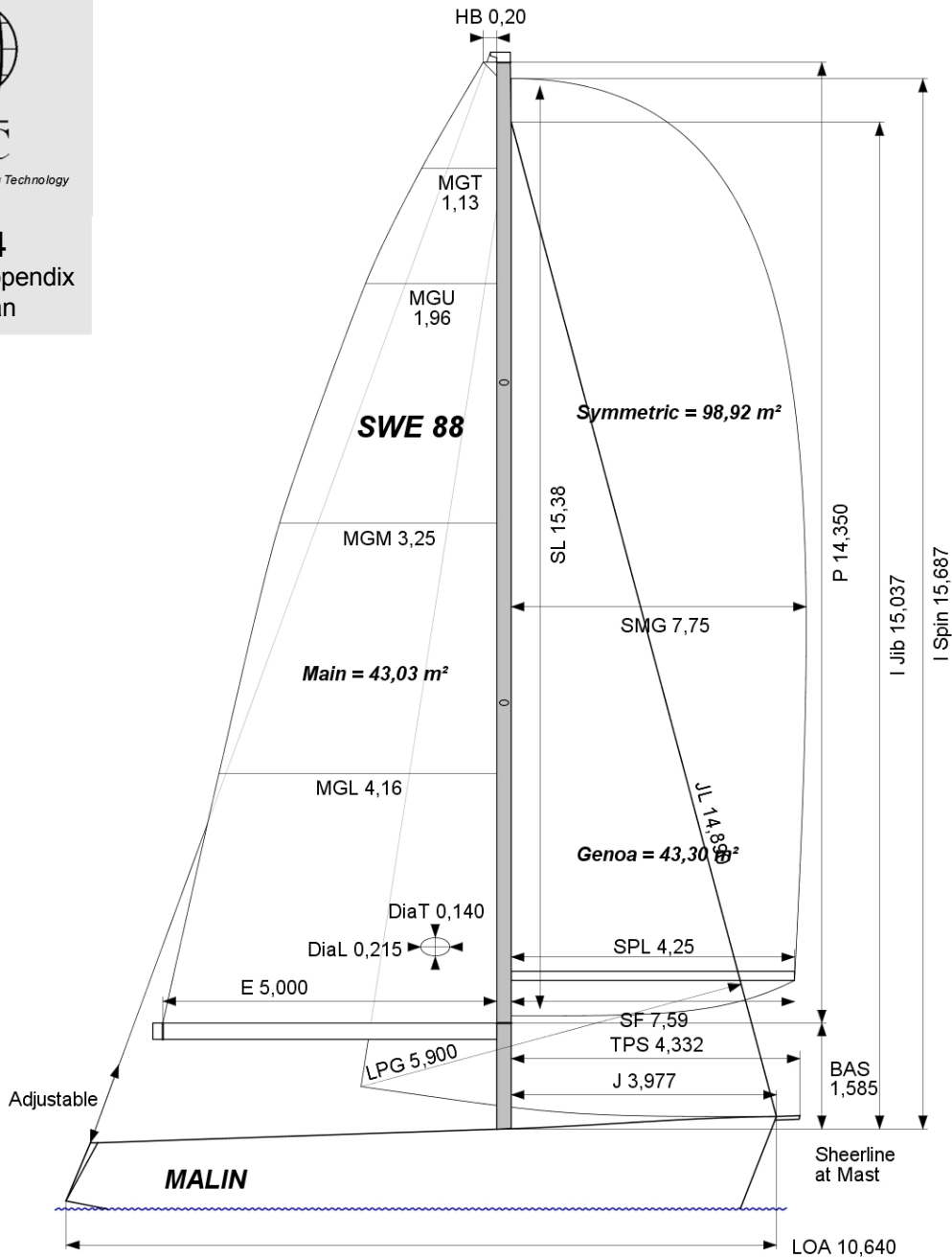
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Heinritz</b>				
Date <b>31/05/2011</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Anchor	22,6	9,00	Bruce+Chain+Ro
2	Anchor	7,4	9,00	Folding Anchor
1	Chain	25,0	6,40	Folding Anchor+
1	Tools	6,0	6,05	2 boxes
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo Penta	MD2030	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>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</i>	<i>Description</i>
1	Tank	Water	GRP	42,0	4,45			Empty
2	Tank	Water	GRP	150,0	4,80			Empty
3	Tank	Waste	S.S.	50,0	5,05			Empty
4	Tank	Fuel	GRP	70,0	8,70			Empty
5	Tank	Gasbottle	Steel	2,5	10,10			Empty
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
1	Battery	64,0	7,00	2x120Ah				
2	Battery	25,0	7,00	1x60Ah				
1	Misc		8,00	Boiler				
2	Misc		10,10	Heater				



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MANSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3DL 2014	0,200	1,13	1,96	3,25	4,16	43,03	957			Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1.1	0,08	0,71	1,41	2,87	4,36	5,90	14,89	148%	43,30						Unknown	
R	0,12	0,79	1,47	2,84	4,38	5,98	14,60	150%	42,93						Unknown	
G1.2	0,10	0,67	1,32	2,71	4,22	5,86	14,86	147%	41,84		Y				Unknown	
J3.1	0,09	0,61	1,18	2,22	3,24	4,22	14,93	106%	32,66		N				Unknown	
J3.2	0,08	0,51	0,97	1,90	2,92	3,98	14,86	100%	29,08						Unknown	
J3.3	0,07	0,46	0,85	1,77	2,82	4,01	14,05	101%	26,47						Unknown	
N2012	0,06		1,57		2,95	13,30	74%	20,17			Y				Unknown	
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
S-2 2014	15,38	7,75	7,59	98,92				Unknown								
S-1 2012	15,41	7,60	7,46	97,24				Unknown								
S-3 2012	15,70	7,00	7,90	93,94				Unknown								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				