

<b>BOAT</b> Name <b>Pro4u/Malin</b> Sail Nr <b>SWE 88</b>	<b>GPH</b> <b>614.0</b>	<b>HULL</b> Length Overall <b>10.640m</b> Maximum Beam <b>3.458m</b> Displacement <b>5,787kg</b> Draft <b>2.233m</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>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 36,7 MOD</b> Designer <b>FARR YACHT DESIGN</b> Builder <b>BENETEAU</b> Series <b>09/2001</b> Age <b>06/2002</b> Age Allowance <b>0.487%</b> Offset File <b>F196MOD_2010_RUD_verified.off -</b> Measurement by <b>T.ANDERSSON - 31/05/2011</b>		IMSL <b>9.631m</b> VCGD <b>0.052m</b> Sink <b>19.51kg/mm</b> RL <b>8.898m</b> VCGM <b>0.031m</b> WS <b>25.89m<sup>2</sup></b> LSM0 <b>9.584m</b> Displacement/Length ratio <b>6.5737</b>



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>598.6</b>			<b>665.9</b>		
Time On Time	<b>1.0023</b>			<b>1.0136</b>		
Performance Line	<b>0.712</b>	<b>58.2</b>		<b>0.905</b>	<b>235.8</b>	
Triple Number	Low <b>0.9672</b>	Medium <b>1.2367</b>	High <b>1.3815</b>	Low <b>0.7476</b>	Medium <b>1.0085</b>	High <b>1.1614</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1013.8</b>	<b>849.5</b>	<b>750.6</b>	<b>707.9</b>	<b>687.4</b>	<b>675.6</b>	<b>668.0</b>
52°	<b>662.6</b>	<b>560.1</b>	<b>513.0</b>	<b>497.0</b>	<b>490.1</b>	<b>486.3</b>	<b>482.5</b>
60°	<b>623.7</b>	<b>534.3</b>	<b>499.3</b>	<b>483.9</b>	<b>477.0</b>	<b>472.8</b>	<b>469.2</b>
75°	<b>590.7</b>	<b>516.9</b>	<b>488.8</b>	<b>470.4</b>	<b>456.9</b>	<b>449.7</b>	<b>443.3</b>
90°	<b>592.2</b>	<b>517.8</b>	<b>489.7</b>	<b>470.7</b>	<b>452.6</b>	<b>436.3</b>	<b>419.2</b>
110°	<b>629.4</b>	<b>525.3</b>	<b>487.5</b>	<b>462.1</b>	<b>441.8</b>	<b>430.3</b>	<b>411.0</b>
120°	<b>648.2</b>	<b>537.1</b>	<b>493.6</b>	<b>468.1</b>	<b>442.9</b>	<b>419.3</b>	<b>395.0</b>
135°	<b>715.1</b>	<b>583.6</b>	<b>515.6</b>	<b>485.4</b>	<b>462.0</b>	<b>438.0</b>	<b>392.9</b>
150°	<b>841.7</b>	<b>672.1</b>	<b>571.0</b>	<b>513.6</b>	<b>485.6</b>	<b>463.6</b>	<b>419.8</b>
Run VMG	<b>971.9</b>	<b>776.1</b>	<b>658.0</b>	<b>581.8</b>	<b>527.7</b>	<b>494.7</b>	<b>451.1</b>

**Certificate**

Number **5841**  
ORC Ref **SSF00001599**  
Issued On **29/06/2016**  
VPP Ver. **2016 1.01**  
Valid until **31/12/2016**

**Crew Weight**

Declared **734kg**  
Default\* **648kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>637.5</b>	<b>0.9412</b>
Non Spin OSN	<b>621.4</b>	<b>0.9656</b>
N/S Perf. Line	<b>32.7</b>	<b>0.645</b>

Selected Courses							
Windward / Leeward	<b>992.9</b>	<b>812.8</b>	<b>704.3</b>	<b>644.8</b>	<b>607.6</b>	<b>585.2</b>	<b>559.6</b>
Circular Random	<b>839.2</b>	<b>680.6</b>	<b>596.2</b>	<b>547.4</b>	<b>517.4</b>	<b>497.8</b>	<b>472.9</b>
Ocean for PCS	<b>1029.0</b>	<b>798.4</b>	<b>668.8</b>	<b>589.8</b>	<b>538.7</b>	<b>503.3</b>	<b>454.7</b>
Non Spinnaker	<b>880.7</b>	<b>710.3</b>	<b>618.5</b>	<b>564.8</b>	<b>531.5</b>	<b>509.6</b>	<b>481.5</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>3</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>43.2°</b>	<b>42.3°</b>	<b>41.4°</b>	<b>39.3°</b>	<b>38.6°</b>	<b>37.8°</b>	<b>37.7°</b>
Beat VMG	<b>3.55</b>	<b>4.24</b>	<b>4.80</b>	<b>5.09</b>	<b>5.24</b>	<b>5.33</b>	<b>5.39</b>
52°	<b>5.43</b>	<b>6.43</b>	<b>7.02</b>	<b>7.24</b>	<b>7.35</b>	<b>7.40</b>	<b>7.46</b>
60°	<b>5.77</b>	<b>6.74</b>	<b>7.21</b>	<b>7.44</b>	<b>7.55</b>	<b>7.61</b>	<b>7.67</b>
75°	<b>6.09</b>	<b>6.96</b>	<b>7.36</b>	<b>7.65</b>	<b>7.88</b>	<b>8.01</b>	<b>8.12</b>
90°	<b>6.08</b>	<b>6.95</b>	<b>7.35</b>	<b>7.65</b>	<b>7.95</b>	<b>8.25</b>	<b>8.59</b>
110°	<b>5.72</b>	<b>6.85</b>	<b>7.39</b>	<b>7.79</b>	<b>8.15</b>	<b>8.37</b>	<b>8.76</b>
120°	<b>5.55</b>	<b>6.70</b>	<b>7.29</b>	<b>7.69</b>	<b>8.13</b>	<b>8.59</b>	<b>9.11</b>
135°	<b>5.03</b>	<b>6.17</b>	<b>6.98</b>	<b>7.42</b>	<b>7.79</b>	<b>8.22</b>	<b>9.16</b>
150°	<b>4.28</b>	<b>5.36</b>	<b>6.30</b>	<b>7.01</b>	<b>7.41</b>	<b>7.76</b>	<b>8.58</b>
Run VMG	<b>3.70</b>	<b>4.64</b>	<b>5.47</b>	<b>6.19</b>	<b>6.82</b>	<b>7.28</b>	<b>7.98</b>
Gybe Angles	<b>145.3°</b>	<b>150.0°</b>	<b>151.8°</b>	<b>158.6°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **9.265**

**Storm Sails Areas**

Heavy Weather Jib **30.91**  
Storm Jib (JL=9.84) **11.45**  
Storm Trysail **12.42**

**Owner**

<b>BOAT</b>	
Name <b>Pro4u/Malin</b>	Sail Nr <b>SWE 88</b>
File <b>5841 2016-06-</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>12/05/2016</b>	SG	<b>1.0050</b>
FFM <b>1.335</b>	FF <b>1.342</b>	SFFP <b>0.367</b>
FAM <b>1.038</b>	FA <b>1.043</b>	SAFP <b>10.161</b>
W1 <b>91.9</b>	PD1 <b>573.3</b>	WD <b>11.120</b>
W2 <b>91.9</b>	PD2 <b>572.1</b>	GSA <b>1.0</b>
W3 <b>91.9</b>	PD3 <b>571.7</b>	RSA <b>1.0</b>
W4 <b>91.9</b>	PD4 <b>570.5</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.919 / 6.142</b>
Maximum beam station from stem		<b>6.980</b>
RM Measured		<b>140.7kg·m</b>
RM Default		<b>146.5kg·m</b>
Limit of positive stability / Stab.Index		<b>117.9° / 120.2</b>
Freeboard at mast at 3.989		<b>1.190</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>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>14.280</b>	E <b>4.970</b>	MDT1 <b>0.122</b>	MW	<b>0.179</b>
IG <b>15.132</b>	J <b>3.989</b>	MDL1 <b>0.181</b>	GO	<b>0.179</b>
ISP <b>15.527</b>	SFJ <b>0.000</b>	MDT2 <b>0.122</b>	BD	<b>0.252</b>
BAS <b>1.582</b>	SPL <b>4.255</b>	MDL2 <b>0.165</b>	MWT	<b>142.00</b>
FSP <b>0.068</b>	TPS <b>4.332</b>	TL <b>1.140</b>	MCG	<b>5.275</b>



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IMS Measurement Certificate

<b>Certificate</b>	
Number	<b>5841</b>
ORC Ref	<b>SSF00001599</b>
Issued On	<b>29/06/2016</b>
VPP Ver.	<b>2016 1.01</b>
Valid until	<b>31/12/2016</b>

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD	<b>0.406</b>
Type <b>Folding 2 blades</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>

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.215	1.15	1.99	3.26	4.17	42.97	43.93	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	97.91		SL · (SFL + 4·SHW) / 6	
	15.37	15.37	15.37	7.65	7.62				
Asymmetric Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
H HB	H UW	H TW	H HW	H QW	H LP	H LU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.71	1.41	2.89	4.38	5.92	14.94	43.64			23/06/2016	Unknow	G1.1 2016-06 3DIS
0.12	0.78	1.46	2.84	4.37	5.96	14.58	42.75	N		12/01/2015	Unknow	REACHER2013
0.10	0.67	1.32	2.71	4.22	5.86	14.86	41.84			26/06/2014	Unknow	G1.2 2014
0.09	0.61	1.18	2.22	3.24	4.22	14.93	32.66	Y		06/12/2012	Unknow	JIB3.1 2013
0.08	0.47	0.88	1.71	2.57	3.44	13.20	22.81	Y	Y	06/05/2015	Unknow	JIB REACHING 2015
0.06	0.48	0.86	1.49	2.05	2.73	13.03	18.80	Y	Y	12/01/2015	Unknow	STAYSAIL2012

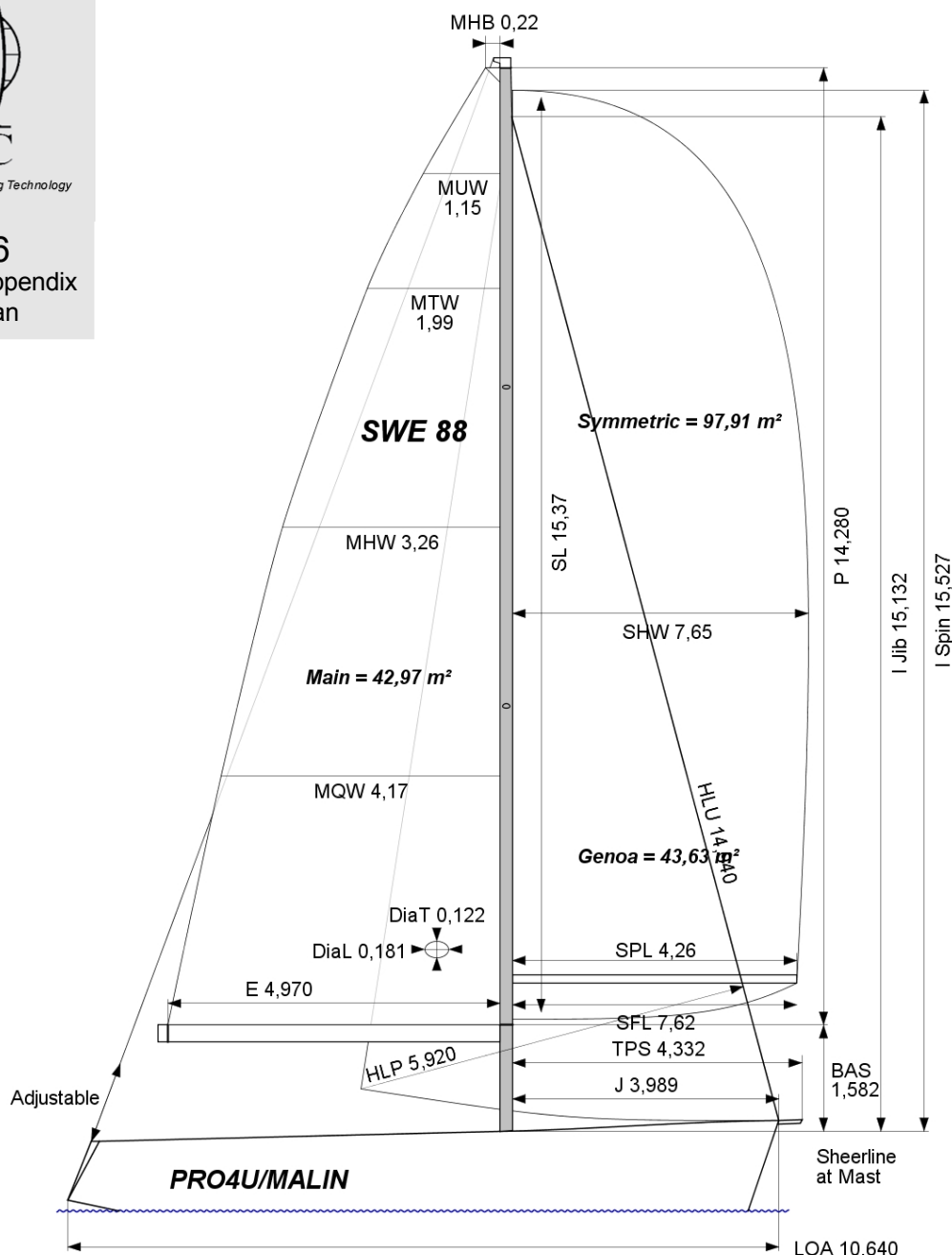
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>MIKAEL LINDQVIST 1129</b>				
Date <b>12/05/2016</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
E1	Engine	VOLVO PENTA	MD2030	
<i>Id</i>	<i>Item</i>	<i>Weight Description</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</i>	<i>Description</i>
BOI	Tank	WATER	S.S.	25.0	8.00	0.00	0-0	
F1	Tank	FUEL	GRP	70.0	8.70	0.00	0-0	
WA	Tank	WASTE	S.S.	50.0	5.25	0.00	0-0	
W2	Tank	WATER	GRP	150.0	4.80	0.00	0-0	
W1	Tank	WATER	GRP	42.0	4.45	0.00	0-0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
N1	Ballast			NONE				
B1	Battery	34.5	7.00	0.00 3 units				
DE	Misc		6.00	0.00				
AU	Misc		9.80	0.00				
HE	Misc		10.10	0.00				
CH	Misc		7.80	0.00				



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Sail Plan



**SAILS INVENTORY**

**MANSAIL**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3DI2014	0.215	1.15	1.99	3.26	4.17	42.97	SWE957	11/04/2016	NORTH	Unknown	3DI2014

**HEADSAILS**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1.1	0.09	0.71	1.41	2.89	4.38	5.92	14.94	148%	43.64			SWE957	23/06/2016	NORTH	Unknown	G1.1 2016-06 3DiS
REAC	0.12	0.78	1.46	2.84	4.37	5.96	14.58	149%	42.75		N	SWE957	12/01/2015	NORTH	Unknown	REACHER2013
G1.2	0.10	0.67	1.32	2.71	4.22	5.86	14.86	147%	41.84			SWE957	26/06/2014	NORTH	Unknown	G1.2 2014
JIB3.1	0.09	0.61	1.18	2.22	3.24	4.22	14.93	106%	32.66	Y		SWE957	06/12/2012	NORTH	Unknown	JIB3.1 2013
JIB	0.08	0.47	0.88	1.71	2.57	3.44	13.20	86%	22.81		Y	SWE957	06/05/2015	NORTH	Unknown	JIB REACHING 2015
STAY	0.06	0.48	0.86	1.49	2.05	2.73	13.03	68%	18.80		Y	SWE957	12/01/2015	NORTH	Unknown	STAYSAIL2012

**SYMMETRIC SPINNAKERS**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1.5-2015	15.37	15.37	15.37	7.65	7.62	97.91	SWE 957	11/04/2016	NORTH	Unknown	S1.5-2015
S2-2014	15.25	15.25	15.25	7.70	7.50	97.35	SWE957	01/01/2014	NORTH	Unknown	S2-2014
S3-2012	15.70	15.70	15.70	7.00	7.90	93.94	SWE957	04/04/2012	NORTH	Unknown	S3-2012

**ASYMMETRIC SPINNAKERS**

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