

<b>BOAT</b>
Name <b>4tyone</b> Sail Nr <b>SWE 33</b>

<b>GPH</b>
<b>572.7</b>

<b>HULL</b>	
Length Overall	<b>12.383 m</b>
Maximum Beam	<b>3.938 m</b>
Displacement	<b>8,307 kg</b>
Draft	<b>2.409 m</b>
IMS Reg. Division	<b>Cruiser/Racer</b>
Dynamic Allowance	<b>0.157%</b>
Fwd Accommodation	<b>Yes</b>
Hull Construction	<b>Cored</b>
Carbon Rudder	<b>No</b>
Crew Arm Extension	
IMS L	<b>11.860</b>
VCGD	<b>-0.070</b>
VCGM	<b>-0.119</b>
Sink	<b>27.49 kg/mm</b>
Wetted Area	<b>35.49 m<sup>2</sup></b>



World Leader in Rating Technology


**2013**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>DEHLER 41 DB</b>
Designer <b>JUDEL/VROLIJK</b>
Builder <b>DEHLER</b>
Series <b>12/2010</b>
Age <b>06/2011</b>
Age Allowance <b>0.098%</b>
Offset File <b>DEH41DSV.OFF - 20/8/2013 15:56:02</b>
Measurement by <b>BRINK,BROKER - 23/06/2011</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>551.9</b>			<b>625.2</b>		
Time On Time	<b>1.0871</b>			<b>1.0796</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.885</b>	<b>83.4</b>		<b>0.824</b>	<b>145.3</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>1.0128</b>	<b>1.3356</b>	<b>1.5287</b>	<b>0.7688</b>	<b>1.0680</b>	<b>1.2714</b>

**Rating Office**

Offshore  
Racing  
Congress



World Leader In Rating Technology

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>999.8</b>	<b>818.9</b>	<b>711.8</b>	<b>656.4</b>	<b>627.4</b>	<b>610.2</b>	<b>601.2</b>
52°	<b>645.4</b>	<b>537.2</b>	<b>475.8</b>	<b>452.8</b>	<b>443.5</b>	<b>437.9</b>	<b>432.1</b>
60°	<b>604.5</b>	<b>507.7</b>	<b>459.8</b>	<b>439.5</b>	<b>431.0</b>	<b>425.4</b>	<b>419.3</b>
75°	<b>572.7</b>	<b>485.1</b>	<b>449.3</b>	<b>429.6</b>	<b>413.4</b>	<b>403.8</b>	<b>393.8</b>
90°	<b>551.6</b>	<b>463.9</b>	<b>435.3</b>	<b>426.0</b>	<b>411.1</b>	<b>395.9</b>	<b>369.6</b>
110°	<b>566.2</b>	<b>474.2</b>	<b>435.9</b>	<b>409.0</b>	<b>384.7</b>	<b>371.5</b>	<b>353.0</b>
120°	<b>591.9</b>	<b>485.0</b>	<b>443.8</b>	<b>421.4</b>	<b>397.1</b>	<b>372.3</b>	<b>337.8</b>
135°	<b>675.1</b>	<b>548.4</b>	<b>478.2</b>	<b>444.3</b>	<b>421.6</b>	<b>398.2</b>	<b>350.1</b>
150°	<b>816.2</b>	<b>650.2</b>	<b>549.2</b>	<b>482.9</b>	<b>448.0</b>	<b>425.8</b>	<b>381.5</b>
Run VMG	<b>942.5</b>	<b>750.8</b>	<b>634.2</b>	<b>554.0</b>	<b>496.9</b>	<b>457.9</b>	<b>412.7</b>

<b>Certificate</b>
Number <b>6222</b>
ORC Ref <b>SSF00000804</b>
Issued On <b>23/6/2013</b>
VPP Ver. <b>2013 1.01</b>
Valid until <b>31/12/2013</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>971.2</b>	<b>784.8</b>	<b>673.0</b>	<b>605.2</b>	<b>562.2</b>	<b>534.1</b>	<b>507.0</b>
Circular Random	<b>797.6</b>	<b>640.6</b>	<b>555.3</b>	<b>504.8</b>	<b>472.8</b>	<b>451.3</b>	<b>423.6</b>
Ocean for PCS	<b>852.0</b>	<b>670.2</b>	<b>568.1</b>	<b>505.1</b>	<b>463.2</b>	<b>433.0</b>	<b>388.9</b>
Non Spinnaker	<b>868.0</b>	<b>690.2</b>	<b>591.9</b>	<b>532.9</b>	<b>495.4</b>	<b>470.5</b>	<b>439.6</b>

<b>Crew Weight</b>	
Declared	<b>912 kg</b>
Default*	<b>864 kg</b>
Non Manual Pwr	<b>No</b>

<b>Special Scoring</b>		
	ToD	ToT
D. Hand OSN	<b>555.8</b>	<b>1.0795</b>
Non Spin. OSN	<b>588.7</b>	<b>1.0191</b>
N/S Perf. Line	<b>47.7</b>	<b>0.773</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>44.2°</b>	<b>42.7°</b>	<b>42.3°</b>	<b>40.2°</b>	<b>38.5°</b>	<b>37.9°</b>	<b>37.9°</b>
Beat VMG	<b>3.60</b>	<b>4.40</b>	<b>5.06</b>	<b>5.48</b>	<b>5.74</b>	<b>5.90</b>	<b>5.99</b>
52°	<b>5.58</b>	<b>6.70</b>	<b>7.57</b>	<b>7.95</b>	<b>8.12</b>	<b>8.22</b>	<b>8.33</b>
60°	<b>5.96</b>	<b>7.09</b>	<b>7.83</b>	<b>8.19</b>	<b>8.35</b>	<b>8.46</b>	<b>8.59</b>
75°	<b>6.29</b>	<b>7.42</b>	<b>8.01</b>	<b>8.38</b>	<b>8.71</b>	<b>8.92</b>	<b>9.14</b>
90°	<b>6.53</b>	<b>7.76</b>	<b>8.27</b>	<b>8.45</b>	<b>8.76</b>	<b>9.09</b>	<b>9.74</b>
110°	<b>6.36</b>	<b>7.59</b>	<b>8.26</b>	<b>8.80</b>	<b>9.36</b>	<b>9.69</b>	<b>10.20</b>
120°	<b>6.08</b>	<b>7.42</b>	<b>8.11</b>	<b>8.54</b>	<b>9.07</b>	<b>9.67</b>	<b>10.66</b>
135°	<b>5.33</b>	<b>6.56</b>	<b>7.53</b>	<b>8.10</b>	<b>8.54</b>	<b>9.04</b>	<b>10.28</b>
150°	<b>4.41</b>	<b>5.54</b>	<b>6.56</b>	<b>7.46</b>	<b>8.04</b>	<b>8.46</b>	<b>9.44</b>
Run VMG	<b>3.82</b>	<b>4.79</b>	<b>5.68</b>	<b>6.50</b>	<b>7.25</b>	<b>7.86</b>	<b>8.72</b>
Gybe Angles	<b>138.3°</b>	<b>146.2°</b>	<b>149.7°</b>	<b>155.4°</b>	<b>170.3°</b>	<b>176.5°</b>	<b>177.7°</b>

<b>Sails Limitations</b>		
Genoas	Jibs	Spinnakers
<b>0</b>	<b>5</b>	<b>4</b>
Spinnaker configuration <b>Asymmetric-Pole</b>		

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>38.17</b>
Storm Jib (JL=10.93)	<b>14.14</b>
Storm Trysail	<b>16.30</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>4tyone</b>	Sail Nr <b>SWE 33</b>
File <b>6222.dxt</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 <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>Yes</b>	Main Furler <b>No</b>		
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>		
Articulated Bowsprit <b>No</b>			
P <b>16.400</b>	E <b>5.680</b>	MDT1 <b>0.132</b>	TL <b>1.150</b>
IG <b>16.765</b>	J <b>4.960</b>	MDL1 <b>0.254</b>	MWT <b>170.50</b>
ISP <b>18.155</b>	SFJ <b>0.000</b>	MDT2 <b>0.115</b>	MCG <b>6.140</b>
SPS <b>1.320</b>	SPL <b>5.180</b>	MDL2 <b>0.197</b>	CPW
BAS <b>1.695</b>	TPS <b>5.160</b>	MW <b>0.254</b>	BD <b>0.300</b>
BAL <b>0.152</b>	FSP <b>0.074</b>	GO <b>0.269</b>	BWT <b>29.30</b>

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


<b>COMMENTS</b>	
HULL #2	

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>24/06/2011</b>		SG <b>1.0000</b>	
FFM <b>1.386</b>	FF <b>1.401</b>	SFFP <b>0.139</b>	
FAM <b>1.073</b>	FA <b>1.079</b>	SAFP <b>12.252</b>	
W1 <b>40.600</b>	PD1 <b>63.0</b>	WD <b>12.330</b>	
W2 <b>81.400</b>	PD2 <b>127.0</b>	GSA <b>19.6</b>	
W3 <b>121.90</b>	PD3 <b>190.0</b>	RSA <b>5281.0</b>	
W4 <b>140.70</b>	PD4 <b>219.0</b>	PLM <b>1999.0</b>	
LCF from stem on CL / on sheer		<b>6.853 / 7.115</b>	
Maximum beam station from stem		<b>8.239</b>	
RM Measured / Default		<b>275.8 / 249.6</b>	
Limit of positive stability / Stab.Index		<b>124.7° / 128.4</b>	
Freeboard at mast at 4.960		<b>1.317</b>	

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.406</b>		
Type <b>Folding</b>	PBW <b>0.125</b>		
Twin Screw <b>No</b>	PIPA <b>0.0042</b>		
ST1 <b>0.066</b>	ST3 <b>0.178</b>	ST5 <b>0.330</b>	
ST2 <b>0.178</b>	ST4 <b>0.112</b>	EDL <b>2.600</b>	

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


<b>CENTERBOARD</b>	
N/A	



World Leader in Rating Technology

**2013**  
IMS Measurement  
Certificate

**Certificate**  
Number **6222**  
ORC Ref **SSF00000804**  
Issued On **23/6/2013**  
VPP Ver. **2013 1.01**  
Valid until **31/12/2013**

World Leader In Rating Technology

<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>HB</b>	<b>MGT</b>	<b>MGU</b>	<b>MGM</b>	<b>MGL</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.220	1.23	2.18	3.71	4.80	55.99	57.16	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
<b>Jib/Genoa</b>	<b>JH</b>	<b>JGT</b>	<b>JGU</b>	<b>JGM</b>	<b>JGL</b>	<b>JL</b>	<b>LPG</b>		
	0.09	0.74	1.46	2.79	4.07	16.80	5.31	46.05	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)
<b>Symmetric</b>	<b>SL</b>	<b>SMG</b>	<b>SF</b>						
	17.86	8.85	9.73					134.34	SL · (SF + 4·SMG) / 6
<b>Asymmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>ASL</b>	<b>AMG</b>	<b>ASF</b>				
	19.30	18.00	18.65	8.85	9.73				140.28
<b>Code Zero</b> Not Available									

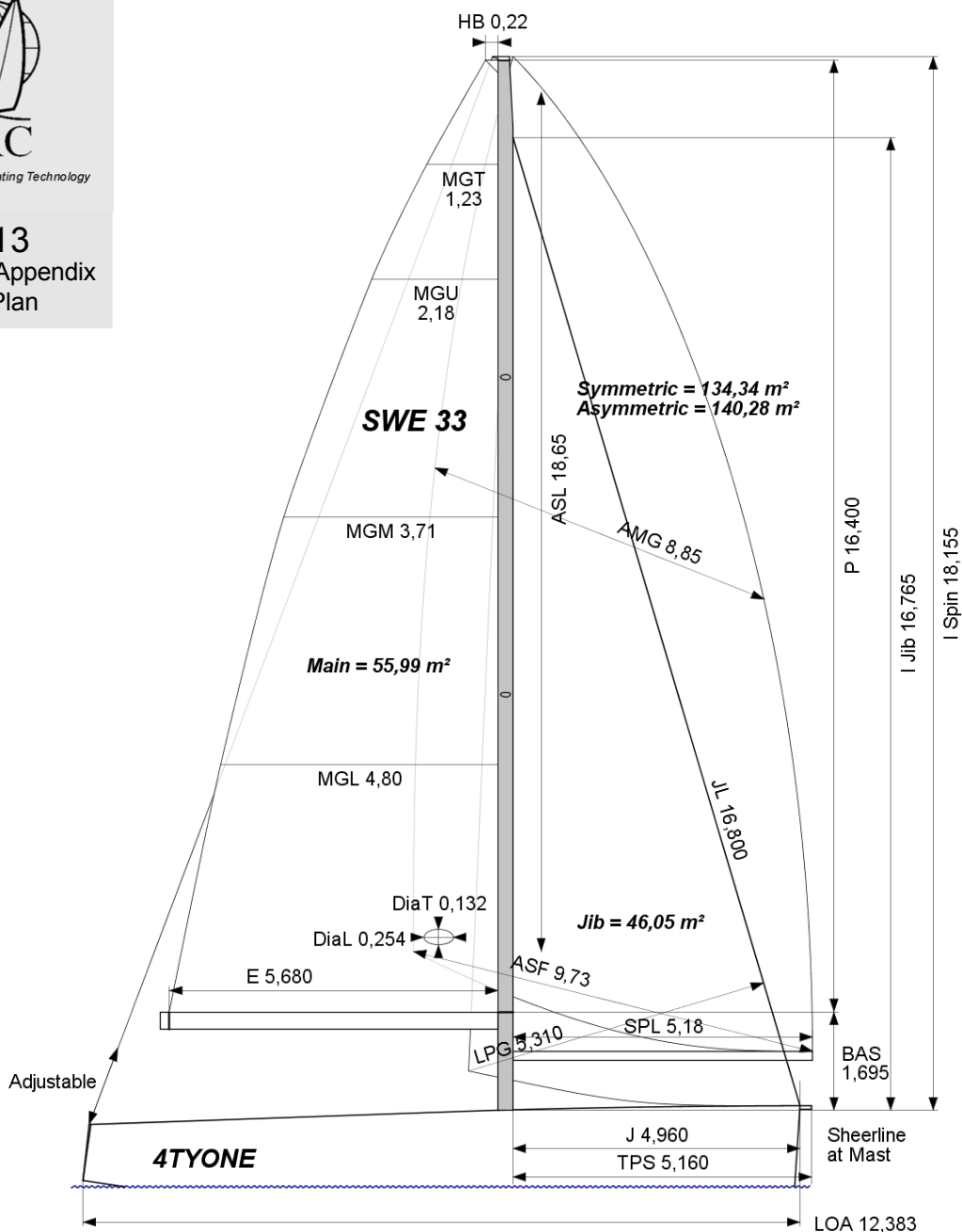
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>BROKER</b>				
Date <b>24/06/2011</b>				
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
1	Anchor	16.0	6.00	
1	Tools	13.0	6.00	
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	VOLVO PENTA	40PS	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Description</b>	
1	Deck Gear	15.0		

<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</b>	<b>Condtn</b>	<b>Description</b>	
1	Tank	WATER	PE	290.0	2.60		0.0		
2	Tank	FUEL	NIRO	60.0	4.65			20.0 Freeboards corrected	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG</b>	<b>Description</b>				
1	Battery	100.0	4.65		2 x 160Ah				
2	Battery	25.0	8.90		1 x 90Ah				



World Leader in Rating Technology

**2013**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	0.220	1.23	2.18	3.71	4.80	55.99	LEW	01/07/2011	NORTH	Carbon	M1-A

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	0.09	0.74	1.46	2.79	4.07	5.31	16.80	107%	46.06	LEW	01/07/2011	NORTH	Carbon	J1-A
3	0.10	0.79	1.53	2.87	4.14	5.36	16.40	108%	45.94	LEW	01/07/2011	NORTH	Spectra	JT-A
1	0.09	0.75	1.45	2.78	4.06	5.31	16.78	107%	45.92	LEW	01/07/2011	NORTH	Carbon	J2-A
2	0.10	0.57	1.10	2.16	3.33	4.67	16.52	94%	37.17	LEW	01/07/2011	NORTH	Carbon	J3.5-A

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	17.86	8.85	9.73	134.34	LEW	01/07/2011	NORTH	Nylon	S1-A

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
0	19.30	18.00	18.65	8.85	9.73	140.28	asym	LEW	01/07/2011	NORTH	Nylon	A3-A
1	16.90	16.59	16.74	7.30	9.72	108.62	asym	LEW	01/07/2011	NORTH	Poly ester	C2-A