

<b>BOAT</b> Name <b>Vencom</b> Sail Nr <b>SWE3939</b>	<b>GPH</b> <b>557.1</b>	<b>HULL</b> Length Overall <b>11.820m</b> Maximum Beam <b>3.590m</b> Displacement <b>6,778kg</b> Draft <b>2.663m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.050%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>Ker 39</b> Designer <b>J. Ker</b> Builder Series <b>06/2008</b> Age <b>06/2008</b> Age Allowance <b>0.228%</b> Offset File <b>Ker39.off - 11/06/2015 09:36:48</b> Measurement by <b>T.Andersson - 21/05/2015</b>		IMSL <b>10.922m</b> VCGD <b>-0.821m</b> Sink <b>21.29kg/mm</b> RL <b>11.363m</b> VCGM <b>-0.817m</b> WS <b>30.51m<sup>2</sup></b>



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**2015**  
ORC International  
Certificate

**Rating Office**

Offshore  
Racing  
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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>541.7</b>			<b>602.3</b>		
Time On Time	<b>1.1077</b>			<b>1.1206</b>		
Performance Line	<b>0.935</b>	<b>96.6</b>		<b>0.898</b>	<b>173.0</b>	
Triple Number	Low <b>1.0528</b>	Medium <b>1.3672</b>	High <b>1.5598</b>	Low <b>0.8048</b>	Medium <b>1.1131</b>	High <b>1.3091</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>952.7</b>	<b>781.9</b>	<b>679.2</b>	<b>626.4</b>	<b>602.7</b>	<b>589.9</b>	<b>579.5</b>
52°	<b>623.3</b>	<b>518.8</b>	<b>470.6</b>	<b>450.5</b>	<b>440.3</b>	<b>434.3</b>	<b>428.4</b>
60°	<b>586.5</b>	<b>495.2</b>	<b>459.1</b>	<b>440.3</b>	<b>427.2</b>	<b>419.8</b>	<b>412.4</b>
75°	<b>557.7</b>	<b>478.4</b>	<b>451.4</b>	<b>431.6</b>	<b>412.6</b>	<b>396.6</b>	<b>381.8</b>
90°	<b>534.9</b>	<b>460.3</b>	<b>439.5</b>	<b>429.2</b>	<b>412.7</b>	<b>395.9</b>	<b>359.4</b>
110°	<b>543.8</b>	<b>467.8</b>	<b>434.0</b>	<b>403.4</b>	<b>385.6</b>	<b>374.5</b>	<b>354.5</b>
120°	<b>571.9</b>	<b>475.3</b>	<b>441.7</b>	<b>416.7</b>	<b>388.5</b>	<b>364.4</b>	<b>340.1</b>
135°	<b>641.5</b>	<b>525.1</b>	<b>468.2</b>	<b>441.1</b>	<b>415.9</b>	<b>389.1</b>	<b>331.9</b>
150°	<b>779.4</b>	<b>623.7</b>	<b>526.5</b>	<b>471.5</b>	<b>443.9</b>	<b>420.1</b>	<b>369.5</b>
Run VMG	<b>899.9</b>	<b>720.1</b>	<b>607.9</b>	<b>535.1</b>	<b>483.3</b>	<b>451.8</b>	<b>404.8</b>

**Certificate**

Number **6252**  
ORC Ref **SSF00001301**  
Issued On **28/07/2015**  
VPP Ver. **2015 1.01**  
Valid until **31/12/2015**

**Crew Weight**

Declared **985kg**  
Default\* **744kg**  
Non Manual Pwr **Yes**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>598.5</b>	<b>1.0025</b>
Non Spin OSN	<b>579.0</b>	<b>1.0362</b>
N/S Perf. Line	<b>57.0</b>	<b>0.805</b>

Selected Courses							
Windward / Leeward	<b>926.3</b>	<b>751.0</b>	<b>643.5</b>	<b>580.7</b>	<b>543.0</b>	<b>520.8</b>	<b>492.2</b>
Circular Random	<b>769.4</b>	<b>620.9</b>	<b>540.7</b>	<b>493.2</b>	<b>463.0</b>	<b>442.0</b>	<b>412.6</b>
Ocean for PCS	<b>820.8</b>	<b>648.9</b>	<b>553.0</b>	<b>493.8</b>	<b>454.0</b>	<b>424.3</b>	<b>377.6</b>
Non Spinnaker	<b>845.7</b>	<b>674.0</b>	<b>579.6</b>	<b>523.0</b>	<b>486.9</b>	<b>462.3</b>	<b>429.7</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</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>42.8°</b>	<b>41.5°</b>	<b>40.3°</b>	<b>37.8°</b>	<b>36.1°</b>	<b>35.2°</b>	<b>34.7°</b>
Beat VMG	<b>3.78</b>	<b>4.60</b>	<b>5.30</b>	<b>5.75</b>	<b>5.97</b>	<b>6.10</b>	<b>6.21</b>
52°	<b>5.78</b>	<b>6.94</b>	<b>7.65</b>	<b>7.99</b>	<b>8.18</b>	<b>8.29</b>	<b>8.40</b>
60°	<b>6.14</b>	<b>7.27</b>	<b>7.84</b>	<b>8.18</b>	<b>8.43</b>	<b>8.58</b>	<b>8.73</b>
75°	<b>6.46</b>	<b>7.53</b>	<b>7.98</b>	<b>8.34</b>	<b>8.72</b>	<b>9.08</b>	<b>9.43</b>
90°	<b>6.73</b>	<b>7.82</b>	<b>8.19</b>	<b>8.39</b>	<b>8.72</b>	<b>9.09</b>	<b>10.02</b>
110°	<b>6.62</b>	<b>7.70</b>	<b>8.29</b>	<b>8.92</b>	<b>9.34</b>	<b>9.61</b>	<b>10.15</b>
120°	<b>6.29</b>	<b>7.57</b>	<b>8.15</b>	<b>8.64</b>	<b>9.27</b>	<b>9.88</b>	<b>10.59</b>
135°	<b>5.61</b>	<b>6.86</b>	<b>7.69</b>	<b>8.16</b>	<b>8.65</b>	<b>9.25</b>	<b>10.85</b>
150°	<b>4.62</b>	<b>5.77</b>	<b>6.84</b>	<b>7.64</b>	<b>8.11</b>	<b>8.57</b>	<b>9.74</b>
Run VMG	<b>4.00</b>	<b>5.00</b>	<b>5.92</b>	<b>6.73</b>	<b>7.45</b>	<b>7.97</b>	<b>8.89</b>
Gybe Angles	<b>141.5°</b>	<b>146.0°</b>	<b>149.5°</b>	<b>158.7°</b>	<b>174.1°</b>	<b>178.1°</b>	<b>177.0°</b>

**Class Division Length**  
CDL = **11.144**

**Storm Sails Areas**

Heavy Weather Jib	<b>36.27</b>
Storm Jib (JL=10.65)	<b>13.43</b>
Storm Trysail	<b>15.41</b>

**Owner**

<b>BOAT</b>	
Name <b>Vencom</b>	Sail Nr <b>SWE3939</b>
File <b>6252.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>21/05/2015</b>		SG <b>1.0010</b>	
FFM <b>1.401</b>	FF <b>1.412</b>	SFFP <b>0.031</b>	
FAM <b>1.097</b>	FA <b>1.102</b>	SAFP <b>11.697</b>	
W1 <b>26.000</b>	PD1 <b>61.0</b>	WD <b>13.991</b>	
W2 <b>53.750</b>	PD2 <b>138.0</b>	GSA <b>0.4</b>	
W3 <b>80.050</b>	PD3 <b>176.0</b>	RSA <b>63.6</b>	
W4 <b>108.60</b>	PD4 <b>236.0</b>	PLM <b>2032.0</b>	
LCF from stem on CL / on sheer		<b>6.295 / 6.512</b>	
Maximum beam station from stem		<b>7.894</b>	
RM Measured		<b>228.5kg·m</b>	
RM Default		<b>167.4kg·m</b>	
Limit of positive stability / Stab.Index		<b>154.4° / 158.1</b>	
Freeboard at mast at 4.826		<b>1.276</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	Jib Furler		
Fiber Rigging	Main Furler		
Lenticular Rigging	Without Backstay <b>Yes</b>		
Articulated Bowsprit <b>No</b>			
P <b>16.604</b>	E <b>5.304</b>	MDT1 <b>0.120</b>	MW <b>0.203</b>
IG <b>16.319</b>	J <b>4.762</b>	MDL1 <b>0.250</b>	GO <b>0.224</b>
ISP <b>18.360</b>	SFJ <b>0.064</b>	MDT2 <b>0.110</b>	BD <b>0.195</b>
BAS <b>1.755</b>	SPL <b>5.393</b>	MDL2 <b>0.155</b>	MWT <b>176.40</b>
FSP <b>0.070</b>	TPS <b>5.413</b>	TL <b>4.139</b>	MCG <b>5.650</b>



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## 2015 Measurements Datasheet

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.420</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.115</b>		
Twin Screw	PIPA <b>0.0037</b>		
ST1 <b>0.045</b>	ST3 <b>0.175</b>	ST5 <b>0.338</b>	
ST2 <b>0.180</b>	ST4 <b>0.114</b>	EDL <b>2.462</b>	

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.220	1.17	2.04	3.36	4.37	52.10	52.96	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric	SL	SMG	SF				144.27	SL · (SF + 4·SMG) / 6	
Asymmetric	SLU	SLE	ASL	AMG	ASF	144.73	ASL · (ASF + 4·AMG) / 6		

<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
0.16	0.76	1.37	2.59	3.77	4.97	15.98	40.98	Y		24/06/2015	Unknow	

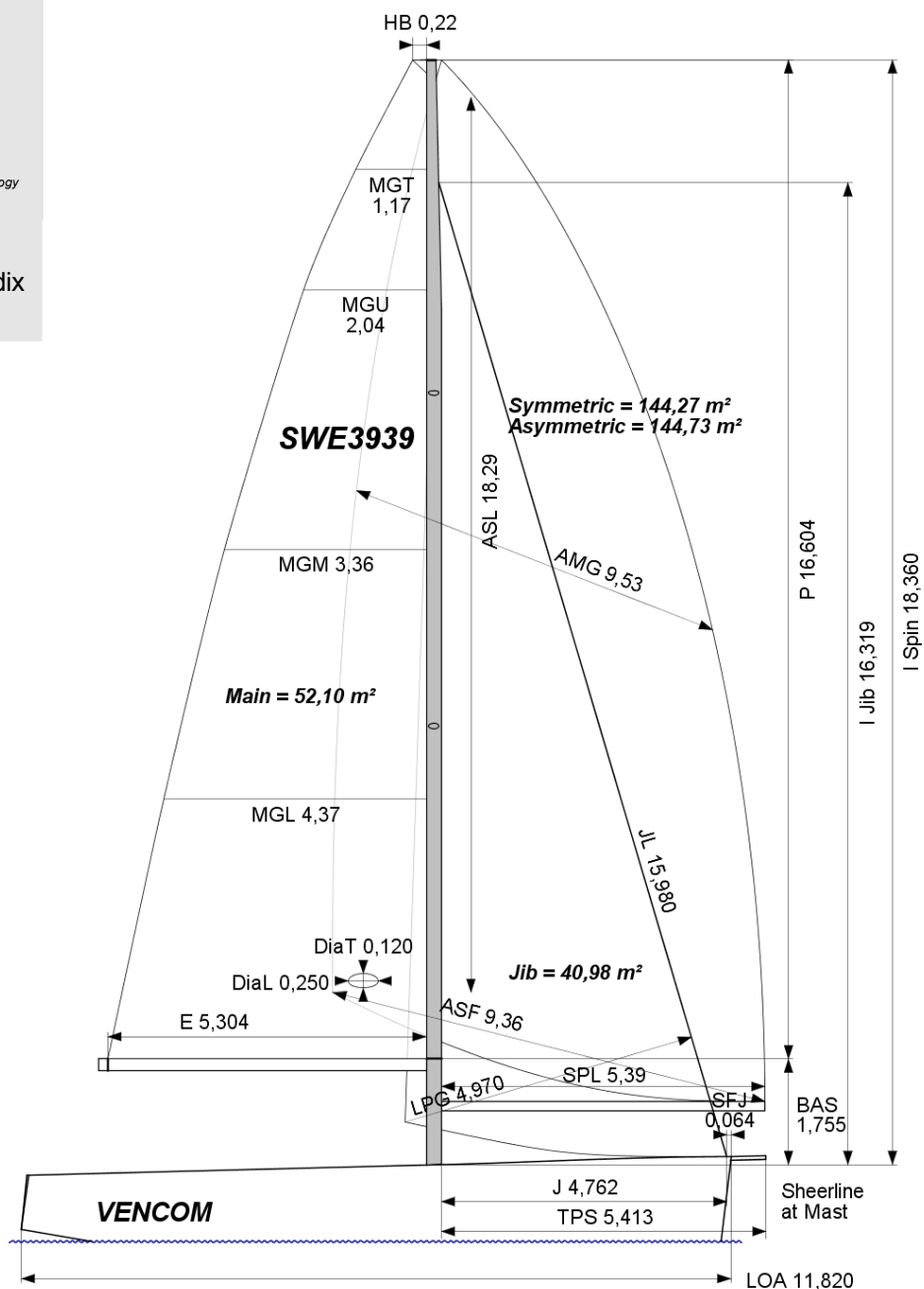
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>T.Andersson</b>				
Date <b>21/05/2015</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
+	Anchor	0.0	0.00	
+	Chain	0.0	0.00	
+	Tools	0.0	0.00	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo Penta	3 cyl 29 hk	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
+	Deck-Gear	0.0	0.0	
+	Fwd-Items	0.0		

<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 Condtm Description</i>
1	Tank Fuel		St.Steel	100.0	8.20	5.0
2	Tank Water		Rubber	100.0	5.70	0.0
3	Tank Waterr		Rubber	50.0	4.65	0.0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Ballast	0.0	0.00			
1	Battery	39.0	7.30	2 pc. 75 AH		
2	Battery	17.0	7.30	50 AH		
1	Misc	0.0	0.00			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M2	0.220	1.17	2.04	3.36	4.37	52.10		23/05/2015		Unknown	

**HEADSAILS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.16	0.76	1.37	2.59	3.77	4.97	15.98	104%	40.98	Y		C957	24/06/2015		Unknown	

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	18.25	9.53	9.31	144.27	C957	24/06/2015		Unknown	

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A1	19.58	17.00	18.29	9.53	9.36	144.73	asym	C957	24/06/2015		Unknown	