



World Leader in Rating Technology

**2016  
ORC Club  
Certificate**

**Rating Office**

**ORC  
Central Rating Office  
issuing certificates for  
CANADA**



**Certificate**

Number **001/16**  
Issued On **8.4.2016**.  
ORC Ref **CAN00062351**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016**.

**Crew Weight**

Declared **550kg**  
Default\* **1,073kg**  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **625.5 0.9592**  
Non Spin OSN **608.7 0.9857**  
N/S Perf. Line **-26.8 0.569**

**Sails Limitations**

Headsails **1** Spinnakers **4**

**Spinnaker configuration**

Symmetric: **No**  
Asymmetric: **Yes 158.04**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**

CDL = **11.267**

**Stability**

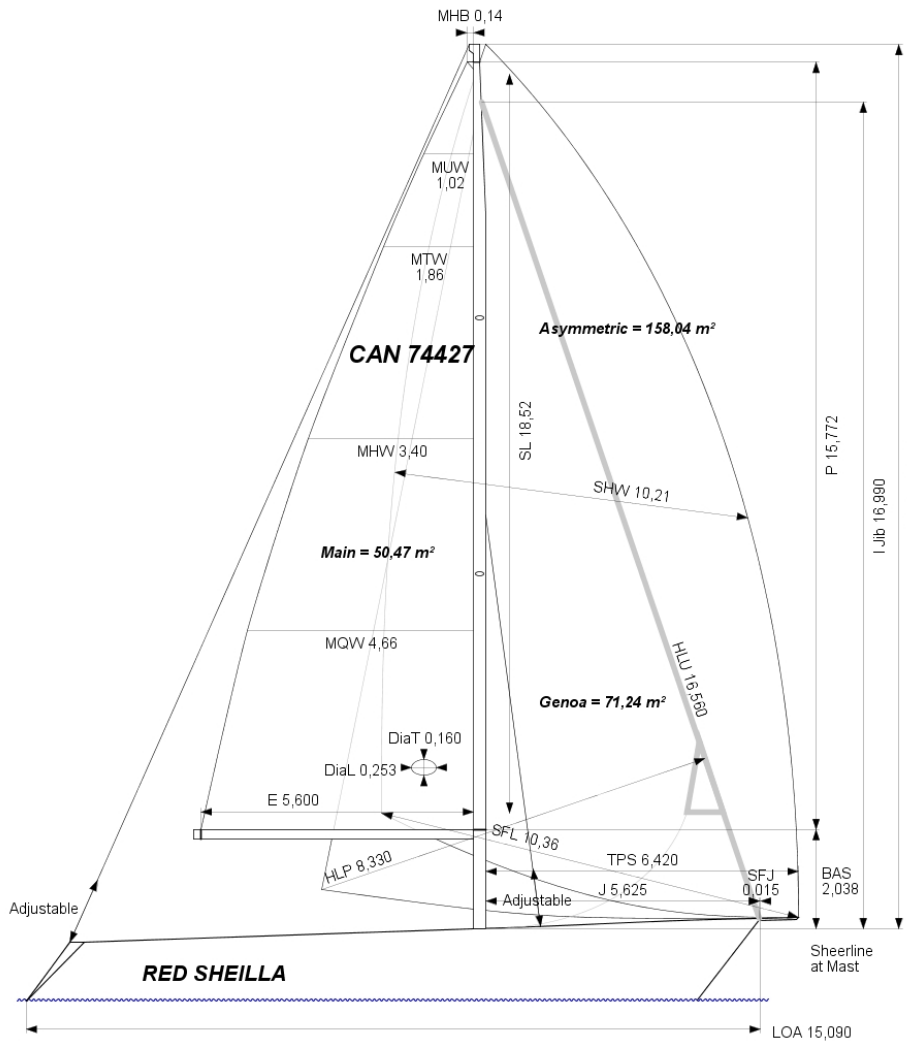
LPS (Estimated): **102.4°**  
Stability Index: **108.6**  
OSR Category: **N/A**

**Owner**

Jim Innes  
16441 26 Avenue  
V3Z9W 9 Surrey BC  
CANADA

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>			
Name <b>Red Sheilla</b> Sail Nr <b>CAN 74427</b>		<b>596.2</b>		Data File <b>CAN74427.dxt</b>	LOA <b>15.090m</b>		
				Offset File <b>BENETEAU49CL</b>	MB <b>4.476m</b>		
				Displacement <b>12,616kg</b>	Draft <b>2.057m</b>		
<b>CLASS</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.359%</b>		
Class <b>Beneteau 49</b>				Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>		
Designer <b>Berret Racoupeau</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>Beneteau</b>				Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>01.2005</b>					Light Stanchions <b>No</b>		
Age Date <b>01.2008</b>				IMSL <b>13.533m</b>	VCGD <b>0.013m</b>	Sink <b>36.23kg/mm</b>	
Age Allowance <b>0.357%</b>				RL <b>9.000m</b>	VCGM <b>0.320m</b>	WS <b>45.92m<sup>2</sup></b>	
<b>COMMENTS</b>				LSM0 <b>13.655m</b>	Displacement/Length ratio <b>4.9550</b>		
				Water Ballast <b>0</b>	Trim Tab <b>No</b>		
<b>PROPELLER</b>				<b>CENTERBOARD</b>			
Installation <b>Shaft non exposed</b>		PRD <b>0.533</b>		<b>N/A</b>			
Type <b>Feathering 3 blades</b>		PIPA <b>0.0013</b>					
<b>SCORING OPTIONS</b>							
	<b>OFFSHORE</b>			<b>INSHORE</b>			
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time On Distance	<b>579.4</b>			<b>660.3</b>			
Time On Time	<b>1.0355</b>			<b>1.0222</b>			
Performance Line	PLT	PLD		PLT	PLD		
	<b>0.640</b>	<b>-0.6</b>		<b>0.793</b>	<b>156.0</b>		
Triple Number	Low	Medium	High	Low	Medium	High	
	<b>0.9558</b>	<b>1.2924</b>	<b>1.4875</b>	<b>0.7245</b>	<b>1.0137</b>	<b>1.2062</b>	



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# 2016

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Red Sheilla</b>	Certificate Number <b>001/16</b>
Sail Nr <b>CAN 74427</b>	Issued On <b>8.4.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1089.3</b>	<b>884.4</b>	<b>773.6</b>	<b>703.9</b>	<b>663.1</b>	<b>640.7</b>	<b>621.3</b>
52°	<b>687.6</b>	<b>567.4</b>	<b>499.5</b>	<b>458.7</b>	<b>442.2</b>	<b>434.4</b>	<b>427.6</b>
60°	<b>633.4</b>	<b>529.2</b>	<b>468.4</b>	<b>438.4</b>	<b>425.7</b>	<b>419.7</b>	<b>413.9</b>
75°	<b>589.2</b>	<b>496.9</b>	<b>446.3</b>	<b>423.6</b>	<b>410.4</b>	<b>401.4</b>	<b>392.6</b>
90°	<b>587.6</b>	<b>496.2</b>	<b>446.2</b>	<b>423.4</b>	<b>409.0</b>	<b>396.5</b>	<b>375.8</b>
110°	<b>612.3</b>	<b>500.5</b>	<b>441.8</b>	<b>416.3</b>	<b>398.4</b>	<b>385.5</b>	<b>368.2</b>
120°	<b>631.5</b>	<b>515.8</b>	<b>451.1</b>	<b>421.4</b>	<b>402.2</b>	<b>382.8</b>	<b>352.9</b>
135°	<b>715.3</b>	<b>568.6</b>	<b>487.3</b>	<b>440.7</b>	<b>417.0</b>	<b>398.8</b>	<b>360.9</b>
150°	<b>852.2</b>	<b>666.0</b>	<b>559.2</b>	<b>492.7</b>	<b>453.2</b>	<b>431.7</b>	<b>402.0</b>
Run VMG	<b>984.0</b>	<b>769.0</b>	<b>645.7</b>	<b>568.9</b>	<b>523.3</b>	<b>497.1</b>	<b>434.6</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1036.6</b>	<b>826.7</b>	<b>709.6</b>	<b>636.4</b>	<b>593.2</b>	<b>568.9</b>	<b>528.0</b>
Circular Random	<b>841.2</b>	<b>670.7</b>	<b>577.2</b>	<b>521.7</b>	<b>487.0</b>	<b>464.2</b>	<b>435.2</b>
Ocean for PCS	<b>1045.3</b>	<b>795.6</b>	<b>653.1</b>	<b>565.1</b>	<b>507.6</b>	<b>467.6</b>	<b>413.2</b>
Non Spinnaker	<b>894.3</b>	<b>708.8</b>	<b>605.2</b>	<b>542.3</b>	<b>502.0</b>	<b>475.2</b>	<b>442.5</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>46.5°</b>	<b>44.9°</b>	<b>44.3°</b>	<b>44.2°</b>	<b>43.0°</b>	<b>41.9°</b>	<b>40.8°</b>
Beat VMG	<b>3.30</b>	<b>4.07</b>	<b>4.65</b>	<b>5.11</b>	<b>5.43</b>	<b>5.62</b>	<b>5.79</b>
52°	<b>5.24</b>	<b>6.34</b>	<b>7.21</b>	<b>7.85</b>	<b>8.14</b>	<b>8.29</b>	<b>8.42</b>
60°	<b>5.68</b>	<b>6.80</b>	<b>7.69</b>	<b>8.21</b>	<b>8.46</b>	<b>8.58</b>	<b>8.70</b>
75°	<b>6.11</b>	<b>7.25</b>	<b>8.07</b>	<b>8.50</b>	<b>8.77</b>	<b>8.97</b>	<b>9.17</b>
90°	<b>6.13</b>	<b>7.26</b>	<b>8.07</b>	<b>8.50</b>	<b>8.80</b>	<b>9.08</b>	<b>9.58</b>
110°	<b>5.88</b>	<b>7.19</b>	<b>8.15</b>	<b>8.65</b>	<b>9.04</b>	<b>9.34</b>	<b>9.78</b>
120°	<b>5.70</b>	<b>6.98</b>	<b>7.98</b>	<b>8.54</b>	<b>8.95</b>	<b>9.40</b>	<b>10.20</b>
135°	<b>5.03</b>	<b>6.33</b>	<b>7.39</b>	<b>8.17</b>	<b>8.63</b>	<b>9.03</b>	<b>9.98</b>
150°	<b>4.22</b>	<b>5.41</b>	<b>6.44</b>	<b>7.31</b>	<b>7.94</b>	<b>8.34</b>	<b>8.96</b>
Run VMG	<b>3.66</b>	<b>4.68</b>	<b>5.58</b>	<b>6.33</b>	<b>6.88</b>	<b>7.24</b>	<b>8.28</b>
Gybe Angles	<b>143.5°</b>	<b>147.0°</b>	<b>147.1°</b>	<b>147.5°</b>	<b>148.6°</b>	<b>151.0°</b>	<b>177.2°</b>