



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

ORC  
Central Rating Office  
issuing certificates for  
CANADA



### Certificate

Number **037/16**  
Issued On **29.3.2016**.  
ORC Ref **CAN00062169**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016**.

### Crew Weight

Declared **749kg**  
Default\* **749kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>616.9</b>	<b>0.9726</b>
Non Spin OSN	<b>601.8</b>	<b>0.9970</b>
N/S Perf. Line	<b>19.8</b>	<b>0.646</b>

### Sails Limitations

Headsails **7** Spinnakers **4**

### Spinnaker configuration

Symmetric: **Yes** **101.06**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **10.090**

### Stability

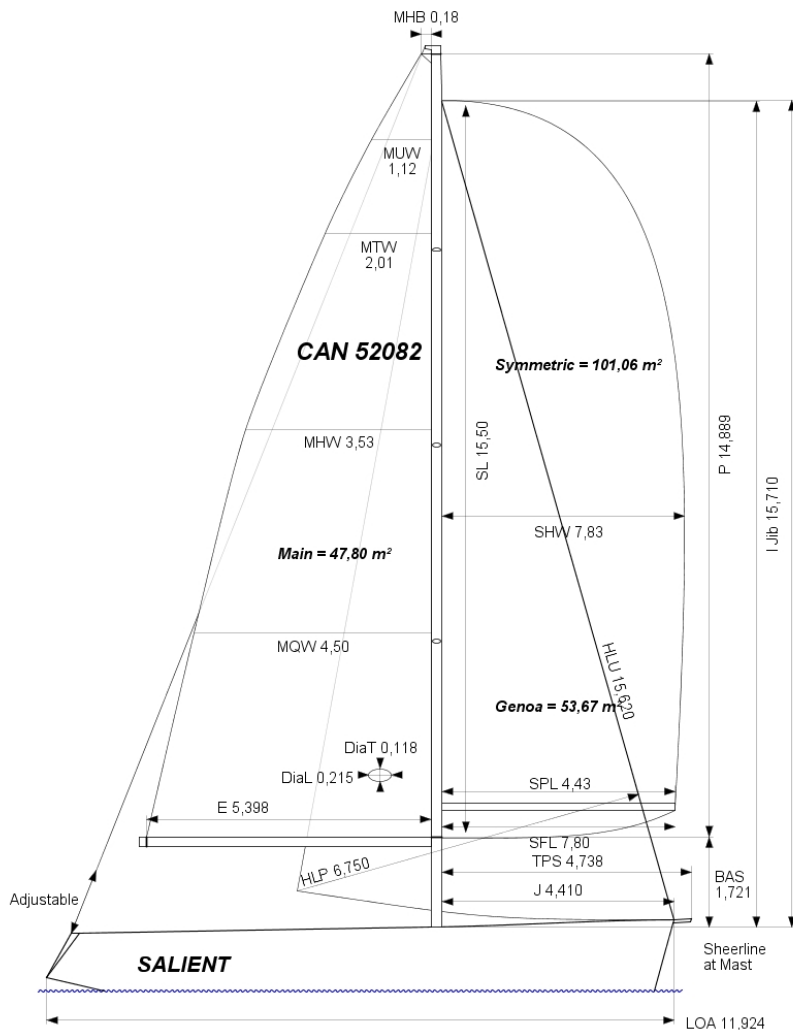
LPS (Estimated): **118.1°**  
Stability Index: **121.4**  
OSR Category: **N/A**

### Owner

Brad Marchant  
1633 Columbia Street  
North Vancouver BC  
CANADA V7J 1A5

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

Signature



BOAT		GPH		HULL			
Name	<b>Salient</b>			Data File	<b>CAN52082.dxt</b>	LOA	<b>11.924m</b>
Sail Nr	<b>CAN 52082</b>			Offset File	<b>EFRST407.OFF</b>	MB	<b>3.770m</b>
			<b>598.5</b>	Displacement	<b>7,419kg</b>	Draft	<b>2.430m</b>
CLASS				IMS Division	<b>Cruiser/Racer</b>	Dynamic All.	<b>0.024%</b>
Class	<b>First 40.7</b>	Fwd Accom.	<b>Yes</b>	Construction	<b>Solid</b>		
Designer	<b>Farr</b>	Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>		
Builder	<b>Benetau</b>	Crew Arm Ex		Carbon Rudder	<b>Yes</b>		
Series	<b>12.1997</b>	Light Stanchions	<b>No</b>				
Age Date	<b>03.2002</b>	IMSL	<b>10.700m</b>	VCGD	<b>-0.205m</b>	Sink	<b>22.59kg/mm</b>
Age Allowance	<b>0.487%</b>	RL	<b>9.478m</b>	VCGM	<b>0.023m</b>	WS	<b>30.08m2</b>
COMMENTS				LSM0	<b>10.615m</b>	Displacement/Length ratio	<b>6.2028</b>
PROPELLER				Water Ballast	<b>0</b>	Trim Tab	<b>No</b>
Installation	<b>Strut</b>	PRD	<b>0.435</b>	CENTERBOARD			
Type	<b>Folding 2 blades</b>	PBW	<b>0.110</b>	<b>N/A</b>			
		PIPA	<b>0.0032</b>				
SCORING OPTIONS							
Time On Distance	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD			
	<b>583.0</b>			<b>651.1</b>			
Time On Time	<b>1.0291</b>			<b>1.0366</b>			
Performance Line	PLT	PLD		PLT	PLD		
	<b>0.700</b>	<b>39.3</b>		<b>0.865</b>	<b>195.0</b>		
Triple Number	Low	Medium	High	Low	Medium	High	
	<b>0.9813</b>	<b>1.2736</b>	<b>1.4350</b>	<b>0.7535</b>	<b>1.0279</b>	<b>1.2007</b>	



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# 2016

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Salient</b>	Certificate Number <b>037/16</b>
Sail Nr <b>CAN 52082</b>	Issued On <b>29.3.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>993.8</b>	<b>828.6</b>	<b>731.0</b>	<b>685.9</b>	<b>663.4</b>	<b>649.3</b>	<b>638.7</b>
52°	<b>645.7</b>	<b>543.0</b>	<b>492.3</b>	<b>475.3</b>	<b>467.7</b>	<b>463.5</b>	<b>459.4</b>
60°	<b>606.3</b>	<b>514.7</b>	<b>477.1</b>	<b>461.9</b>	<b>454.8</b>	<b>450.5</b>	<b>446.1</b>
75°	<b>572.2</b>	<b>495.1</b>	<b>465.8</b>	<b>448.5</b>	<b>436.0</b>	<b>428.9</b>	<b>421.9</b>
90°	<b>572.8</b>	<b>495.4</b>	<b>466.4</b>	<b>448.0</b>	<b>431.3</b>	<b>416.3</b>	<b>399.6</b>
110°	<b>627.0</b>	<b>515.5</b>	<b>470.4</b>	<b>446.3</b>	<b>424.7</b>	<b>412.2</b>	<b>393.7</b>
120°	<b>646.9</b>	<b>530.1</b>	<b>477.3</b>	<b>452.0</b>	<b>429.8</b>	<b>407.4</b>	<b>378.5</b>
135°	<b>717.2</b>	<b>582.9</b>	<b>505.3</b>	<b>469.7</b>	<b>447.6</b>	<b>426.1</b>	<b>383.8</b>
150°	<b>851.2</b>	<b>673.8</b>	<b>569.7</b>	<b>503.5</b>	<b>470.5</b>	<b>449.5</b>	<b>409.3</b>
Run VMG	<b>982.9</b>	<b>778.1</b>	<b>657.3</b>	<b>576.1</b>	<b>520.9</b>	<b>481.6</b>	<b>439.1</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>988.3</b>	<b>803.3</b>	<b>694.2</b>	<b>631.0</b>	<b>592.1</b>	<b>565.5</b>	<b>538.9</b>
Circular Random	<b>825.2</b>	<b>666.1</b>	<b>580.7</b>	<b>530.8</b>	<b>500.0</b>	<b>479.7</b>	<b>454.7</b>
Ocean for PCS	<b>1017.8</b>	<b>784.9</b>	<b>653.4</b>	<b>573.0</b>	<b>520.9</b>	<b>484.8</b>	<b>435.8</b>
Non Spinnaker	<b>857.4</b>	<b>689.4</b>	<b>598.2</b>	<b>544.5</b>	<b>510.9</b>	<b>488.7</b>	<b>460.4</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>43.7°</b>	<b>42.7°</b>	<b>42.1°</b>	<b>40.1°</b>	<b>39.2°</b>	<b>38.4°</b>	<b>38.0°</b>
Beat VMG	<b>3.62</b>	<b>4.34</b>	<b>4.92</b>	<b>5.25</b>	<b>5.43</b>	<b>5.54</b>	<b>5.64</b>
52°	<b>5.58</b>	<b>6.63</b>	<b>7.31</b>	<b>7.57</b>	<b>7.70</b>	<b>7.77</b>	<b>7.84</b>
60°	<b>5.94</b>	<b>6.99</b>	<b>7.55</b>	<b>7.79</b>	<b>7.92</b>	<b>7.99</b>	<b>8.07</b>
75°	<b>6.29</b>	<b>7.27</b>	<b>7.73</b>	<b>8.03</b>	<b>8.26</b>	<b>8.39</b>	<b>8.53</b>
90°	<b>6.28</b>	<b>7.27</b>	<b>7.72</b>	<b>8.04</b>	<b>8.35</b>	<b>8.65</b>	<b>9.01</b>
110°	<b>5.74</b>	<b>6.98</b>	<b>7.65</b>	<b>8.07</b>	<b>8.48</b>	<b>8.73</b>	<b>9.14</b>
120°	<b>5.57</b>	<b>6.79</b>	<b>7.54</b>	<b>7.96</b>	<b>8.38</b>	<b>8.84</b>	<b>9.51</b>
135°	<b>5.02</b>	<b>6.18</b>	<b>7.12</b>	<b>7.67</b>	<b>8.04</b>	<b>8.45</b>	<b>9.38</b>
150°	<b>4.23</b>	<b>5.34</b>	<b>6.32</b>	<b>7.15</b>	<b>7.65</b>	<b>8.01</b>	<b>8.80</b>
Run VMG	<b>3.66</b>	<b>4.63</b>	<b>5.48</b>	<b>6.25</b>	<b>6.91</b>	<b>7.48</b>	<b>8.20</b>
Gybe Angles	<b>144.8°</b>	<b>149.5°</b>	<b>151.5°</b>	<b>155.6°</b>	<b>171.3°</b>	<b>180.0°</b>	<b>180.0°</b>