



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

ORC  
Central Rating Office  
issuing certificates for  
CANADA



### Certificate

Number **015/16**  
Issued On **12.4.2016**.  
ORC Ref **CAN00062396**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016**.

### Crew Weight

Declared **1,400lbs**  
Default\* **1,683lbs**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>618.6</b>	<b>0.9699</b>
Non Spin OSN	<b>603.1</b>	<b>0.9949</b>
N/S Perf. Line	<b>21.4</b>	<b>0.647</b>

### Sails Limitations

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

### Spinnaker configuration

Symmetric: **Yes 1116.91**  
Asymmetric: **Yes 1189.50**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **10.191**

### Stability

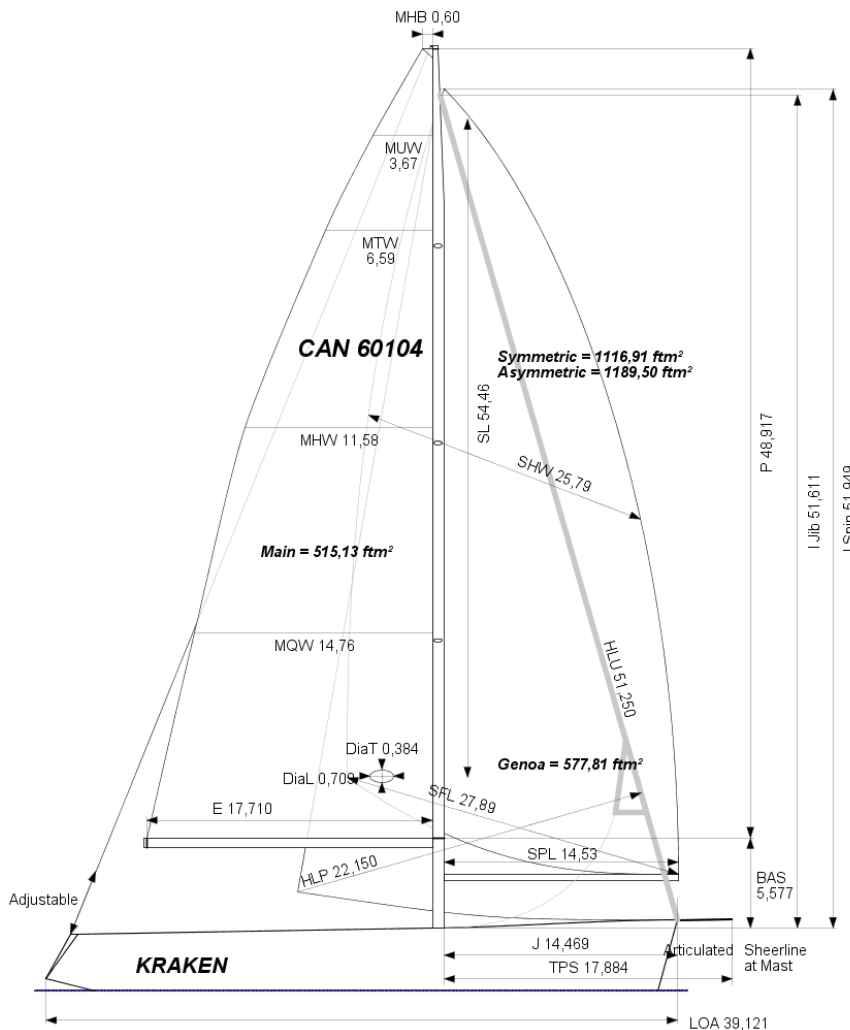
LPS (Estimated): **115.2°**  
Stability Index: **119.5**  
OSR Category: **N/A**

### Owner

Mark Malecek  
1808 Burrill Ave, North Vancouver  
Vancouver, BC  
Canada V7K 1M2

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

Signature



BOAT		GPH		HULL		
Name	<b>Kraken</b>			Data File	<b>CAN60104.dxt</b>	
Sail Nr	<b>CAN 60104</b>			Offset File	<b>EFRST407.OFF</b>	
				Displacement	<b>17,567lbs</b>	
				LOA	<b>39.121ft</b>	
				MB	<b>12.369ft</b>	
				Draft	<b>8.050ft</b>	
				IMS Division	<b>Cruiser/Racer</b>	
				Dynamic All.	<b>0.042%</b>	
				Fwd Accom.	<b>Yes</b>	
				Construction	<b>Solid</b>	
				Fiber Rigging	<b>No</b>	
				Aramid Core	<b>No</b>	
				Crew Arm Ex	<b>Yes</b>	
				Carbon Rudder	<b>Yes</b>	
				Light Stanchions	<b>No</b>	
				IMSL	<b>35.567ft</b>	
				VCGD	<b>-0.489ft</b>	
				Sink	<b>1297.15lbs/in</b>	
				RL	<b>9.540ft</b>	
				VCGM	<b>0.186ft</b>	
				WS	<b>334.44ft2</b>	
				LSM0	<b>35.284ft</b>	
				Displacement/Length ratio	<b>0.3999</b>	
				Water Ballast	<b>0</b>	
				Trim Tab	<b>No</b>	
				<b>CENTERBOARD</b>		
				<b>N/A</b>		
<b>CLASS</b>						
Class	<b>First 40.7</b>					
Designer	<b>Farr</b>					
Builder	<b>Beneteau</b>					
Series	<b>12.1997</b>					
Age Date	<b>03.2002</b>					
Age Allowance	<b>0.487%</b>					
<b>COMMENTS</b>						
<b>PROPELLER</b>						
Installation	<b>Strut</b>	PRD	<b>1.427</b>			
Type	<b>Folding 2 blades</b>	PBW	<b>0.361</b>			
		PIPA	<b>0.0080</b>			
<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>580.4</b>			<b>646.9</b>		
Time On Time	<b>1.0338</b>			<b>1.0434</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.712</b>	<b>45.0</b>		<b>0.876</b>	<b>198.6</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0.9891</b>	<b>1.2781</b>	<b>1.4362</b>	<b>0.7601</b>	<b>1.0347</b>	<b>1.2074</b>



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# 2016

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Kraken</b>	Certificate Number <b>015/16</b>
Sail Nr <b>CAN 60104</b>	Issued On <b>12.4.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>995.4</b>	<b>830.2</b>	<b>731.4</b>	<b>683.6</b>	<b>660.1</b>	<b>645.9</b>	<b>633.7</b>
52°	<b>648.7</b>	<b>546.0</b>	<b>493.9</b>	<b>476.2</b>	<b>468.3</b>	<b>464.0</b>	<b>459.9</b>
60°	<b>610.0</b>	<b>517.2</b>	<b>478.7</b>	<b>463.2</b>	<b>456.1</b>	<b>451.8</b>	<b>447.4</b>
75°	<b>575.8</b>	<b>497.3</b>	<b>467.5</b>	<b>450.9</b>	<b>439.0</b>	<b>432.1</b>	<b>425.1</b>
90°	<b>576.5</b>	<b>497.9</b>	<b>468.3</b>	<b>450.7</b>	<b>435.4</b>	<b>421.3</b>	<b>404.4</b>
110°	<b>610.9</b>	<b>505.9</b>	<b>466.3</b>	<b>443.6</b>	<b>425.7</b>	<b>413.9</b>	<b>395.6</b>
120°	<b>629.3</b>	<b>519.3</b>	<b>472.9</b>	<b>449.1</b>	<b>427.6</b>	<b>406.6</b>	<b>380.0</b>
135°	<b>697.9</b>	<b>570.5</b>	<b>499.4</b>	<b>467.0</b>	<b>445.8</b>	<b>424.8</b>	<b>383.3</b>
150°	<b>832.7</b>	<b>662.4</b>	<b>561.4</b>	<b>498.4</b>	<b>467.8</b>	<b>447.6</b>	<b>408.4</b>
Run VMG	<b>961.5</b>	<b>764.9</b>	<b>647.9</b>	<b>569.6</b>	<b>517.0</b>	<b>479.2</b>	<b>438.1</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>978.5</b>	<b>797.6</b>	<b>689.6</b>	<b>626.6</b>	<b>588.5</b>	<b>562.5</b>	<b>535.9</b>
Circular Random	<b>819.3</b>	<b>662.2</b>	<b>578.1</b>	<b>529.2</b>	<b>499.0</b>	<b>479.1</b>	<b>454.4</b>
Ocean for PCS	<b>1008.9</b>	<b>779.4</b>	<b>650.0</b>	<b>570.9</b>	<b>519.8</b>	<b>484.5</b>	<b>436.7</b>
Non Spinnaker	<b>859.8</b>	<b>691.3</b>	<b>599.8</b>	<b>546.0</b>	<b>512.4</b>	<b>490.2</b>	<b>462.2</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>43.4°</b>	<b>42.3°</b>	<b>41.8°</b>	<b>39.8°</b>	<b>38.4°</b>	<b>37.8°</b>	<b>37.3°</b>
Beat VMG	<b>3.62</b>	<b>4.34</b>	<b>4.92</b>	<b>5.27</b>	<b>5.45</b>	<b>5.57</b>	<b>5.68</b>
52°	<b>5.55</b>	<b>6.59</b>	<b>7.29</b>	<b>7.56</b>	<b>7.69</b>	<b>7.76</b>	<b>7.83</b>
60°	<b>5.90</b>	<b>6.96</b>	<b>7.52</b>	<b>7.77</b>	<b>7.89</b>	<b>7.97</b>	<b>8.05</b>
75°	<b>6.25</b>	<b>7.24</b>	<b>7.70</b>	<b>7.98</b>	<b>8.20</b>	<b>8.33</b>	<b>8.47</b>
90°	<b>6.24</b>	<b>7.23</b>	<b>7.69</b>	<b>7.99</b>	<b>8.27</b>	<b>8.55</b>	<b>8.90</b>
110°	<b>5.89</b>	<b>7.12</b>	<b>7.72</b>	<b>8.12</b>	<b>8.46</b>	<b>8.70</b>	<b>9.10</b>
120°	<b>5.72</b>	<b>6.93</b>	<b>7.61</b>	<b>8.02</b>	<b>8.42</b>	<b>8.85</b>	<b>9.47</b>
135°	<b>5.16</b>	<b>6.31</b>	<b>7.21</b>	<b>7.71</b>	<b>8.08</b>	<b>8.47</b>	<b>9.39</b>
150°	<b>4.32</b>	<b>5.43</b>	<b>6.41</b>	<b>7.22</b>	<b>7.70</b>	<b>8.04</b>	<b>8.82</b>
Run VMG	<b>3.74</b>	<b>4.71</b>	<b>5.56</b>	<b>6.32</b>	<b>6.96</b>	<b>7.51</b>	<b>8.22</b>
Gybe Angles	<b>144.6°</b>	<b>149.7°</b>	<b>151.3°</b>	<b>155.8°</b>	<b>171.7°</b>	<b>180.0°</b>	<b>180.0°</b>