



World Leader in Rating Technology

## 2010 ORC Club Certificate

### Rating Office

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### Certificate

Number **10056a**  
Issued On **09/03/2010**  
ORC Ref **FRA00007527**  
VPP Ver. **2010 1.08**  
Valid until **28/02/2011**

### Crew Weight

Declared **400 kg**  
Default\* **486 kg**  
Non Manual Power **No**

### Special Scoring

	ToD	ToT
Double Handed	<b>687.6</b>	<b>0.8726</b>
Non Spinnaker	<b>727.0</b>	<b>0.8254</b>
N/S Perf. Line	<b>65.2</b>	<b>0.675</b>

### Sails Limitations

Genoas **1** Spinnakers **3**  
Jibs **0**

### Spinnaker configuration

Symmetric: **Yes** **59.67**  
Asymmetric: **No**  
Code Zero: **No**  
Spin. Pole: **Yes**

### Stability

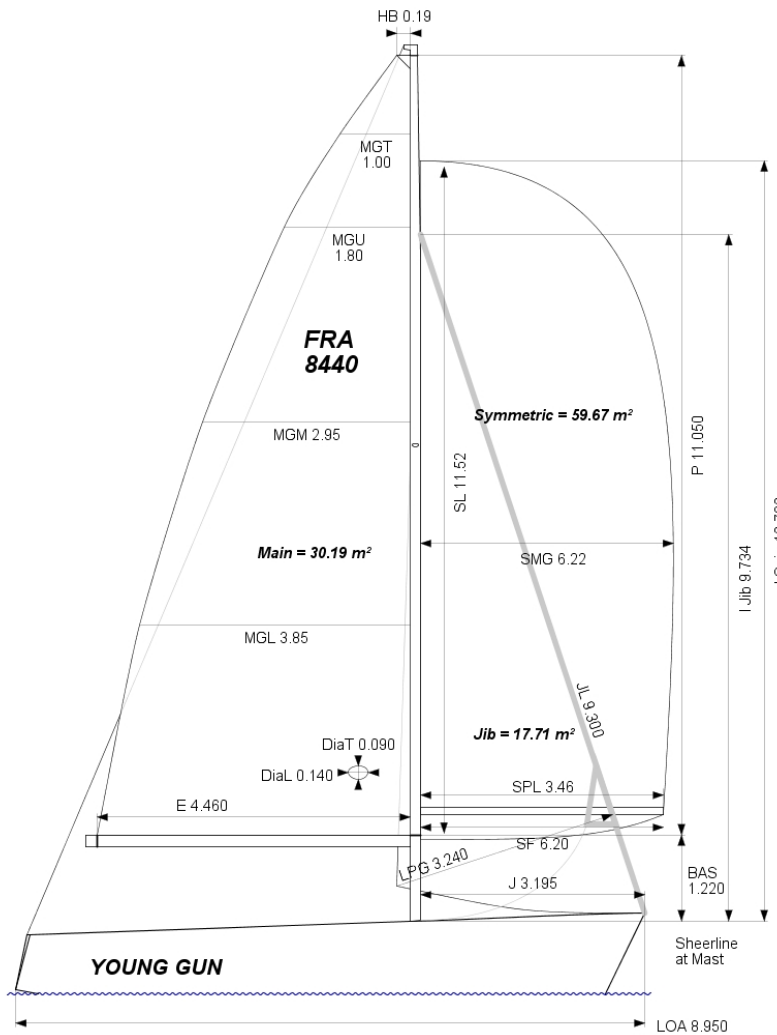
LPS (Estimated): **118.7°**  
Stability Index: **112.9**  
OSR Category: **2**

### Owner

WACH Georges  
8 rue Rougeyron  
98847 - NOUMEA Cedex

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

Signature



BOAT		GPH	HULL			
Name <b>YOUNG GUN</b> Sail Nr <b>FRA- 8440</b>		<b>682.9</b>	Data File <b>F8440.dxt</b>	LOA <b>8.950 m</b>		
			Offset File <b>KZ173.OFF</b>	MB <b>3.280 m</b>		
			Displacement <b>2,971 kg</b>	Draft <b>1.722 m</b>		
CLASS						
Class <b>YOUNG 88</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.464%</b>				
Designer <b>YOUNG Jim</b>		Fwd Accom. <b>Yes</b> Construction <b>Solid</b>				
Builder <b>ROGER LAND YACHTS</b>		Fiber Rigging <b>No</b> Aramid Core <b>No</b>				
Series <b>04/1981</b>		Carbon Mast <b>No</b> Carbon Rudder <b>No</b>				
Age Date <b>06/1994</b>		Anchor Wgt <b>42.0</b> Anchor LCG <b>1.00</b>				
Age Allowance <b>0.975%</b>		IMS L <b>8.330</b> Wetted Area <b>17.50 m²</b> VCGM <b>-0.003</b>				
COMMENTS						
YANMAR SD20						
PROPELLER		CENTERBOARD				
Installation <b>Strut</b> PRD <b>0.360</b>						
Type <b>Feathering 3 blades</b>		N/A				
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	<b>682.9</b>			<b>771.6</b>		
Time On Time	<b>0.8786</b>			<b>0.8748</b>		
Performance Line	<b>PLT</b>	<b>PLD</b>		<b>PLT</b>	<b>PLD</b>	
	<b>0.769</b>	<b>101.6</b>		<b>0.916</b>	<b>301.7</b>	
Triple Number	<b>Low</b>	<b>Medium</b>	<b>High</b>	<b>Low</b>	<b>Medium</b>	<b>High</b>
	<b>0.8605</b>	<b>1.1160</b>	<b>1.2568</b>	<b>0.6542</b>	<b>0.8953</b>	<b>1.0365</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>YOUNG GUN</b>
Certificate Number	<b>10056a</b>
Sail Nr	<b>FRA- 8440</b>
Issued On	<b>09/03/2010</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1210.9</b>	<b>986.8</b>	<b>871.1</b>	<b>819.9</b>	<b>790.4</b>	<b>772.1</b>	<b>770.7</b>
52°	<b>776.7</b>	<b>645.1</b>	<b>586.6</b>	<b>557.6</b>	<b>543.5</b>	<b>534.4</b>	<b>527.1</b>
60°	<b>721.3</b>	<b>613.5</b>	<b>563.3</b>	<b>533.8</b>	<b>520.3</b>	<b>511.9</b>	<b>503.4</b>
75°	<b>672.3</b>	<b>571.3</b>	<b>530.8</b>	<b>515.3</b>	<b>493.4</b>	<b>482.0</b>	<b>471.6</b>
90°	<b>629.0</b>	<b>552.3</b>	<b>511.5</b>	<b>493.3</b>	<b>482.9</b>	<b>474.2</b>	<b>446.4</b>
110°	<b>645.9</b>	<b>566.1</b>	<b>521.2</b>	<b>487.8</b>	<b>461.6</b>	<b>445.6</b>	<b>457.0</b>
120°	<b>683.2</b>	<b>585.4</b>	<b>535.3</b>	<b>499.9</b>	<b>470.2</b>	<b>443.0</b>	<b>405.8</b>
135°	<b>785.1</b>	<b>636.5</b>	<b>568.7</b>	<b>526.9</b>	<b>495.3</b>	<b>468.4</b>	<b>413.6</b>
150°	<b>934.5</b>	<b>736.5</b>	<b>625.3</b>	<b>566.3</b>	<b>527.3</b>	<b>497.3</b>	<b>447.4</b>
Run VMG	<b>1079.1</b>	<b>850.5</b>	<b>716.6</b>	<b>631.8</b>	<b>576.2</b>	<b>537.3</b>	<b>482.2</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1166.1</b>	<b>933.3</b>	<b>807.0</b>	<b>735.3</b>	<b>691.3</b>	<b>662.1</b>	<b>633.5</b>
Circular Random	<b>941.7</b>	<b>760.1</b>	<b>662.5</b>	<b>605.7</b>	<b>570.7</b>	<b>547.8</b>	<b>520.5</b>
Ocean for PCS	<b>1006.9</b>	<b>795.1</b>	<b>677.2</b>	<b>605.0</b>	<b>557.0</b>	<b>522.1</b>	<b>470.4</b>
Non Spinnaker	<b>1023.5</b>	<b>816.8</b>	<b>703.9</b>	<b>637.1</b>	<b>595.4</b>	<b>567.9</b>	<b>534.6</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>44.4°</b>	<b>43.5°</b>	<b>41.5°</b>	<b>40.2°</b>	<b>39.2°</b>	<b>38.7°</b>	<b>39.7°</b>
Beat VMG	<b>2.97</b>	<b>3.65</b>	<b>4.13</b>	<b>4.39</b>	<b>4.55</b>	<b>4.66</b>	<b>4.67</b>
52°	<b>4.63</b>	<b>5.58</b>	<b>6.14</b>	<b>6.46</b>	<b>6.62</b>	<b>6.74</b>	<b>6.83</b>
60°	<b>4.99</b>	<b>5.87</b>	<b>6.39</b>	<b>6.74</b>	<b>6.92</b>	<b>7.03</b>	<b>7.15</b>
75°	<b>5.36</b>	<b>6.30</b>	<b>6.78</b>	<b>6.99</b>	<b>7.30</b>	<b>7.47</b>	<b>7.63</b>
90°	<b>5.72</b>	<b>6.52</b>	<b>7.04</b>	<b>7.30</b>	<b>7.46</b>	<b>7.59</b>	<b>8.06</b>
110°	<b>5.57</b>	<b>6.36</b>	<b>6.91</b>	<b>7.38</b>	<b>7.80</b>	<b>8.08</b>	<b>7.88</b>
120°	<b>5.27</b>	<b>6.15</b>	<b>6.73</b>	<b>7.20</b>	<b>7.66</b>	<b>8.13</b>	<b>8.87</b>
135°	<b>4.59</b>	<b>5.66</b>	<b>6.33</b>	<b>6.83</b>	<b>7.27</b>	<b>7.69</b>	<b>8.70</b>
150°	<b>3.85</b>	<b>4.89</b>	<b>5.76</b>	<b>6.36</b>	<b>6.83</b>	<b>7.24</b>	<b>8.05</b>
Run VMG	<b>3.34</b>	<b>4.23</b>	<b>5.02</b>	<b>5.70</b>	<b>6.25</b>	<b>6.70</b>	<b>7.47</b>
Gybe Angles	<b>144.0°</b>	<b>148.0°</b>	<b>156.5°</b>	<b>166.9°</b>	<b>172.2°</b>	<b>174.3°</b>	<b>175.1°</b>