



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

Hungarian Yachting  
Association  
Istvanmezei ut 1-3  
H-1146 Budapest  
HUNGARY



### Certificate

Number **016/16**  
Issued On **3.5.2016.**  
ORC Ref **HUN00062829**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016.**

### Crew Weight

Declared **500kg**  
Default\* **755kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>656.5</b>	<b>0.9139</b>
Non Spin OSN	<b>638.4</b>	<b>0.9399</b>
N/S Perf. Line	<b>-1.6</b>	<b>0.578</b>

### Sails Limitations

Headsails **6** Spinnakers **3**

### Spinnaker configuration

Symmetric: **Yes** **131.61**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **9.322**

### Stability

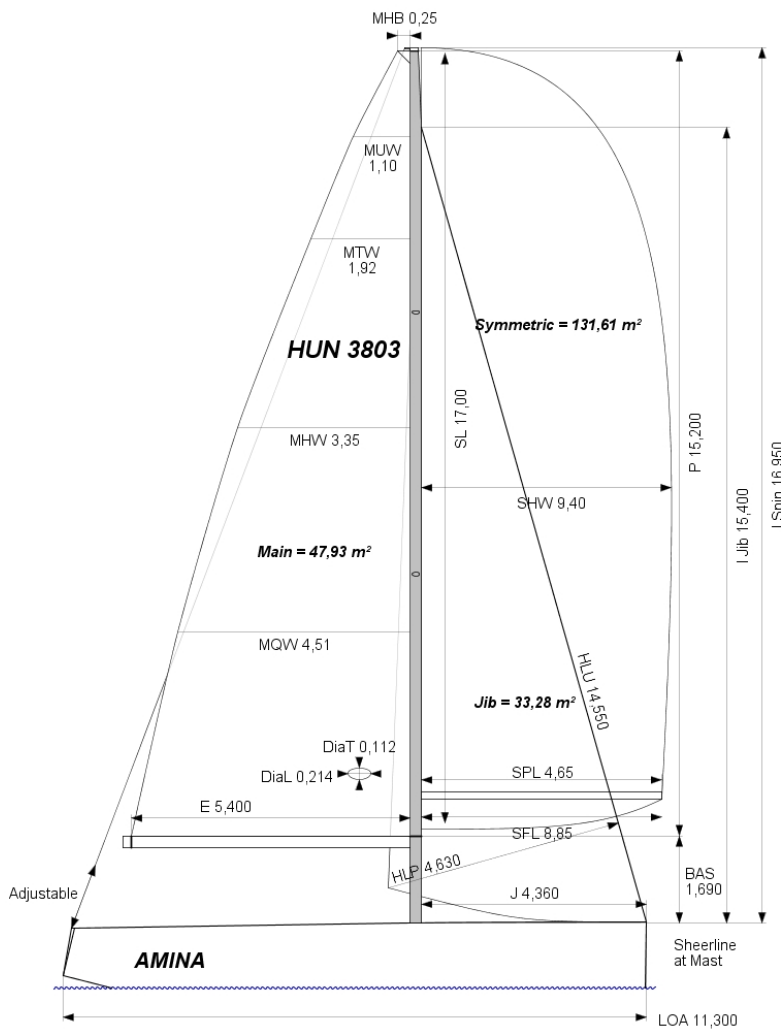
LPS (Estimated): **127.3°**  
Stability Index: **131.9**  
OSR Category: **N/A**

### Owner

Gyula Adler  
Maglódi u. 55.  
Budapest  
HUNGARY

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

Signature



BOAT		GPH		HULL		
Name	<b>Amina</b>		<b>619.0</b>	Data File	<b>HUN3803.dxt</b>	
Sail Nr	<b>HUN 3803</b>			Offset File	<b>DEH38_SK_CLB</b>	
				Displacement	<b>8,105kg</b>	
				LOA	<b>11.300m</b>	
				MB	<b>3.758m</b>	
				Draft	<b>1.599m</b>	
<b>CLASS</b>		<b>IMS Division</b> <b>Cruiser/Racer</b>				
Class	<b>Dehler 38CS</b>	Dynamic All.	<b>0.240%</b>			
Designer	<b>Judel/Wrolijk</b>	Fwd Accom.	<b>Yes</b>	Construction	<b>Cored</b>	
Builder	<b>Hanse</b>	Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>	
Series	<b>01.2013</b>	Crew Arm Ex		Carbon Rudder	<b>No</b>	
Age Date	<b>06.2013</b>			Light Stanchions	<b>No</b>	
Age Allowance	<b>0.098%</b>			IMSL	<b>10.674m</b>	
				VCGD	<b>0.000m</b>	
				Sink	<b>23.26kg/mm</b>	
				RL	<b>7.968m</b>	
				VCGM	<b>-0.121m</b>	
				WS	<b>29.95m2</b>	
				LSM0	<b>10.669m</b>	
				Displacement/Length ratio	<b>6.6739</b>	
<b>COMMENTS</b>		Water Ballast <b>0</b> Trim Tab <b>No</b>				
<b>PROPELLER</b>		<b>CENTERBOARD</b>				
Installation	<b>Strut</b>	PRD	<b>0.435</b>	<b>N/A</b>		
Type	<b>Folding 2 blades</b>	PBW	<b>0.135</b>			
		PIPA	<b>0.0040</b>			
<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>601.9</b>			<b>675.2</b>		
Time On Time	<b>0.9968</b>			<b>0.9997</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.668</b>	<b>31.9</b>		<b>0.809</b>	<b>178.2</b>	
	Low	Medium	High	Low	Medium	High
Triple Number	<b>0.9436</b>	<b>1.2335</b>	<b>1.3982</b>	<b>0.7242</b>	<b>0.9887</b>	<b>1.1618</b>



World Leader in Rating Technology

# 2016

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Amina</b>	Certificate Number <b>016/16</b>
Sail Nr <b>HUN 3803</b>	Issued On <b>3.5.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1121.2</b>	<b>929.6</b>	<b>822.3</b>	<b>748.1</b>	<b>710.9</b>	<b>692.6</b>	<b>682.2</b>
52°	<b>715.9</b>	<b>602.0</b>	<b>531.6</b>	<b>494.9</b>	<b>479.2</b>	<b>472.5</b>	<b>467.5</b>
60°	<b>666.0</b>	<b>562.4</b>	<b>503.8</b>	<b>477.7</b>	<b>464.1</b>	<b>457.4</b>	<b>452.1</b>
75°	<b>625.2</b>	<b>529.3</b>	<b>485.7</b>	<b>465.0</b>	<b>450.6</b>	<b>438.9</b>	<b>425.9</b>
90°	<b>624.1</b>	<b>517.5</b>	<b>476.9</b>	<b>464.8</b>	<b>450.5</b>	<b>436.5</b>	<b>410.1</b>
110°	<b>610.7</b>	<b>506.0</b>	<b>466.6</b>	<b>444.9</b>	<b>432.1</b>	<b>421.8</b>	<b>404.2</b>
120°	<b>624.2</b>	<b>515.4</b>	<b>471.3</b>	<b>447.8</b>	<b>425.8</b>	<b>407.9</b>	<b>388.1</b>
135°	<b>683.1</b>	<b>558.4</b>	<b>491.2</b>	<b>462.3</b>	<b>441.3</b>	<b>419.8</b>	<b>378.0</b>
150°	<b>806.2</b>	<b>646.5</b>	<b>548.0</b>	<b>490.4</b>	<b>463.5</b>	<b>443.7</b>	<b>404.2</b>
Run VMG	<b>930.9</b>	<b>746.5</b>	<b>632.8</b>	<b>558.6</b>	<b>509.6</b>	<b>475.2</b>	<b>435.1</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1026.0</b>	<b>838.0</b>	<b>727.5</b>	<b>653.3</b>	<b>610.2</b>	<b>583.9</b>	<b>558.6</b>
Circular Random	<b>857.2</b>	<b>690.5</b>	<b>600.4</b>	<b>547.4</b>	<b>514.4</b>	<b>492.8</b>	<b>466.5</b>
Ocean for PCS	<b>1051.0</b>	<b>811.5</b>	<b>675.1</b>	<b>590.6</b>	<b>535.4</b>	<b>497.0</b>	<b>445.1</b>
Non Spinnaker	<b>926.3</b>	<b>739.1</b>	<b>635.8</b>	<b>573.9</b>	<b>535.1</b>	<b>510.0</b>	<b>480.5</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>45.5°</b>	<b>43.9°</b>	<b>44.2°</b>	<b>44.0°</b>	<b>42.4°</b>	<b>41.9°</b>	<b>42.0°</b>
Beat VMG	<b>3.21</b>	<b>3.87</b>	<b>4.38</b>	<b>4.81</b>	<b>5.06</b>	<b>5.20</b>	<b>5.28</b>
52°	<b>5.03</b>	<b>5.98</b>	<b>6.77</b>	<b>7.27</b>	<b>7.51</b>	<b>7.62</b>	<b>7.70</b>
60°	<b>5.41</b>	<b>6.40</b>	<b>7.14</b>	<b>7.54</b>	<b>7.76</b>	<b>7.87</b>	<b>7.96</b>
75°	<b>5.76</b>	<b>6.80</b>	<b>7.41</b>	<b>7.74</b>	<b>7.99</b>	<b>8.20</b>	<b>8.45</b>
90°	<b>5.77</b>	<b>6.96</b>	<b>7.55</b>	<b>7.74</b>	<b>7.99</b>	<b>8.25</b>	<b>8.78</b>
110°	<b>5.89</b>	<b>7.11</b>	<b>7.71</b>	<b>8.09</b>	<b>8.33</b>	<b>8.53</b>	<b>8.91</b>
120°	<b>5.77</b>	<b>6.99</b>	<b>7.64</b>	<b>8.04</b>	<b>8.45</b>	<b>8.83</b>	<b>9.28</b>
135°	<b>5.27</b>	<b>6.45</b>	<b>7.33</b>	<b>7.79</b>	<b>8.16</b>	<b>8.58</b>	<b>9.52</b>
150°	<b>4.47</b>	<b>5.57</b>	<b>6.57</b>	<b>7.34</b>	<b>7.77</b>	<b>8.11</b>	<b>8.91</b>
Run VMG	<b>3.87</b>	<b>4.82</b>	<b>5.69</b>	<b>6.44</b>	<b>7.06</b>	<b>7.58</b>	<b>8.27</b>
Gybe Angles	<b>145.1°</b>	<b>149.5°</b>	<b>150.0°</b>	<b>156.5°</b>	<b>173.3°</b>	<b>180.0°</b>	<b>180.0°</b>