

|  |                            |  |
|--|----------------------------|--|
| <b>BOAT</b><br>Name <b>Vento Cadela</b><br>Sail Nr <b>AUT 4822</b>   | <b>GPH</b><br><b>599.5</b> | <b>HULL</b><br>Length Overall <b>11.970m</b><br>Maximum Beam <b>4.304m</b><br>Displacement <b>7,479kg</b><br>Draft <b>2.419m</b><br>IMS Reg. Division <b>Cruiser/Racer</b><br>Dynamic Allowance <b>0.239%</b><br>Fwd Accommodation <b>Yes</b><br>Hull Construction <b>Cored</b><br>Carbon Rudder <b>No</b><br>Crew Arm Extension |
| <b>GENERAL</b><br>Class <b>DC1200</b><br>Designer <b>DELMAR CONDE</b><br>Builder <b>DELMAR CONDE</b><br>Series <b>01/2000</b><br>Age <b>10/2000</b><br>Age Allowance <b>0.487%</b><br>Offset File <b>por8307_2017.off - 18/05/2017</b><br>Measurement by - <b>16/08/2006</b> |                            | IMSL <b>11.487m</b> VCGD <b>0.255m</b> Sink <b>24.90kg/mm</b><br>RL <b>9.607m</b> VCGM <b>0.167m</b> WS <b>33.13m<sup>2</sup></b><br>LSM0 <b>11.540m</b> Displacement/Length ratio <b>4.8666</b>   |



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| SCORING OPTIONS  |                         |               |               |                    |               |               |
|------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
|                  | COASTAL / LONG DISTANCE |               |               | WINDWARD / LEEWARD |               |               |
| Time on Distance | <b>581.1</b>            |               |               | <b>649.5</b>       |               |               |
| Time on Time     | <b>1.0325</b>           |               |               | <b>1.0393</b>      |               |               |
| Triple Number    | Low                     | Medium        | High          | Low                | Medium        | High          |
| Time on Distance | <b>697.7</b>            | <b>528.3</b>  | <b>465.1</b>  | <b>905.4</b>       | <b>654.6</b>  | <b>558.7</b>  |
| Time on Time     | <b>0.9675</b>           | <b>1.2777</b> | <b>1.4513</b> | <b>0.7455</b>      | <b>1.0311</b> | <b>1.2082</b> |

| TIME ALLOWANCES |               |              |              |              |              |              |              |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity   | 6 kt          | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Beat VMG        | <b>1025.8</b> | <b>841.8</b> | <b>737.6</b> | <b>681.3</b> | <b>660.1</b> | <b>651.0</b> | <b>637.5</b> |
| 52°             | <b>668.0</b>  | <b>561.3</b> | <b>500.8</b> | <b>475.7</b> | <b>465.6</b> | <b>461.4</b> | <b>457.3</b> |
| 60°             | <b>630.4</b>  | <b>534.0</b> | <b>485.0</b> | <b>463.9</b> | <b>453.2</b> | <b>448.3</b> | <b>444.5</b> |
| 75°             | <b>603.5</b>  | <b>513.9</b> | <b>474.0</b> | <b>454.2</b> | <b>440.1</b> | <b>429.3</b> | <b>418.9</b> |
| 90°             | <b>612.4</b>  | <b>508.8</b> | <b>464.9</b> | <b>445.4</b> | <b>436.3</b> | <b>420.8</b> | <b>395.4</b> |
| 110°            | <b>614.7</b>  | <b>506.3</b> | <b>461.7</b> | <b>437.8</b> | <b>415.5</b> | <b>396.8</b> | <b>375.6</b> |
| 120°            | <b>637.4</b>  | <b>522.6</b> | <b>469.0</b> | <b>442.9</b> | <b>419.4</b> | <b>396.2</b> | <b>356.6</b> |
| 135°            | <b>713.2</b>  | <b>576.8</b> | <b>497.4</b> | <b>460.7</b> | <b>437.7</b> | <b>414.3</b> | <b>367.5</b> |
| 150°            | <b>849.4</b>  | <b>669.7</b> | <b>564.9</b> | <b>498.8</b> | <b>462.7</b> | <b>440.9</b> | <b>397.3</b> |
| Run VMG         | <b>980.8</b>  | <b>773.3</b> | <b>652.2</b> | <b>570.8</b> | <b>516.4</b> | <b>475.7</b> | <b>431.1</b> |

**Certificate**

Number **I13/19**  
ORC Ref **AUT00002614**  
Issued On **23/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default **844kg**  
Maximum **790kg**  
Minimum\* **593kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

|              |              |               |
|--------------|--------------|---------------|
|              | ToD          | ToT           |
| Double H.GPH | <b>612.9</b> | <b>0.9790</b> |
| Double H.OSN | <b>596.0</b> | <b>1.0068</b> |
| Non Spin GPH | <b>632.5</b> | <b>0.9486</b> |
| Non Spin OSN | <b>612.0</b> | <b>0.9803</b> |

| Selected Courses        |               |              |              |              |              |              |              |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward      | <b>1003.3</b> | <b>807.5</b> | <b>694.9</b> | <b>626.0</b> | <b>588.3</b> | <b>563.4</b> | <b>534.3</b> |
| Circular Random         | <b>834.8</b>  | <b>670.2</b> | <b>581.0</b> | <b>528.8</b> | <b>496.3</b> | <b>474.7</b> | <b>446.7</b> |
| Coastal / Long Distance | <b>1001.0</b> | <b>757.8</b> | <b>624.3</b> | <b>545.4</b> | <b>506.2</b> | <b>475.9</b> | <b>426.0</b> |
| Non Spinnaker           | <b>894.4</b>  | <b>712.2</b> | <b>612.2</b> | <b>552.8</b> | <b>515.8</b> | <b>491.5</b> | <b>461.0</b> |

**Sails Limitations**

|           |            |
|-----------|------------|
| Headsails | Spinnakers |
| <b>6</b>  | <b>4</b>   |

| Velocity Prediction in Knots for True Wind Speeds |               |               |               |               |               |               |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Wind Velocity                                     | 6 kt          | 8 kt          | 10 kt         | 12 kt         | 14 kt         | 16 kt         | 20 kt         |
| Beat Angles                                       | <b>43.1°</b>  | <b>41.2°</b>  | <b>40.5°</b>  | <b>39.6°</b>  | <b>38.8°</b>  | <b>38.5°</b>  | <b>37.8°</b>  |
| Beat VMG  | <b>3.51</b>   | <b>4.28</b>   | <b>4.88</b>   | <b>5.28</b>   | <b>5.45</b>   | <b>5.53</b>   | <b>5.65</b>   |
| 52°   | <b>5.39</b>   | <b>6.41</b>   | <b>7.19</b>   | <b>7.57</b>   | <b>7.73</b>   | <b>7.80</b>   | <b>7.87</b>   |
| 60°   | <b>5.71</b>   | <b>6.74</b>   | <b>7.42</b>   | <b>7.76</b>   | <b>7.94</b>   | <b>8.03</b>   | <b>8.10</b>   |
| 75°   | <b>5.97</b>   | <b>7.00</b>   | <b>7.60</b>   | <b>7.93</b>   | <b>8.18</b>   | <b>8.39</b>   | <b>8.59</b>   |
| 90°   | <b>5.88</b>   | <b>7.07</b>   | <b>7.74</b>   | <b>8.08</b>   | <b>8.25</b>   | <b>8.55</b>   | <b>9.11</b>   |
| 110°  | <b>5.86</b>   | <b>7.11</b>   | <b>7.80</b>   | <b>8.22</b>   | <b>8.66</b>   | <b>9.07</b>   | <b>9.58</b>   |
| 120°  | <b>5.65</b>   | <b>6.89</b>   | <b>7.68</b>   | <b>8.13</b>   | <b>8.58</b>   | <b>9.09</b>   | <b>10.09</b>  |
| 135°  | <b>5.05</b>   | <b>6.24</b>   | <b>7.24</b>   | <b>7.81</b>   | <b>8.22</b>   | <b>8.69</b>   | <b>9.80</b>   |
| 150°  | <b>4.24</b>   | <b>5.38</b>   | <b>6.37</b>   | <b>7.22</b>   | <b>7.78</b>   | <b>8.17</b>   | <b>9.06</b>   |
| Run VMG   | <b>3.67</b>   | <b>4.66</b>   | <b>5.52</b>   | <b>6.31</b>   | <b>6.97</b>   | <b>7.57</b>   | <b>8.35</b>   |
| Gybe Angles                                       | <b>143.8°</b> | <b>148.3°</b> | <b>150.8°</b> | <b>154.4°</b> | <b>166.2°</b> | <b>180.0°</b> | <b>180.0°</b> |

**Class Division Length**

CDL = **10.548**

**Storm Sails Areas**

Heavy Weather Jib **34.62**  
Storm Jib (JL=10.41) **12.83**  
Storm Trysail **14.73**

**Owner**

|                          |                                 |
|--------------------------|---------------------------------|
| <b>BOAT</b>              |                                 |
| Name <b>Vento Cadela</b> | Sail Nr <b>AUT 4822</b>         |
| File <b>VentoCadela</b>  | Data in <b>meters/kilograms</b> |

|                                |  |
|--------------------------------|--|
| <b>RIG</b>                     |  |
| Forestay Tension <b>Aft</b>    | Spreaders <b>2</b>                                   |
| Inner Stay <b>None Fitted</b>  | Runners <b>0</b>                                     |
| Carbon Mast <b>No</b>          | Jumper Struts <b>None</b>                            |
| Taper Hollows <b>No</b>        | Jib Furler <b>No</b>                                 |
| Fiber Rigging <b>No</b>        | Main Furler <b>No</b>                                |
| Lenticular Rigging <b>No</b>   | Without Backstay <b>No</b>                           |
| Articulated Bowsprit <b>No</b> |  |
| P <b>15.220</b>                | E <b>5.529</b> MDT1 <b>0.120</b> MW <b>0.215</b>     |
| IG <b>16.006</b>               | J <b>4.261</b> MDL1 <b>0.215</b> GO <b>0.217</b>     |
| ISP <b>16.100</b>              | SFJ <b>0.000</b> MDT2 <b>0.120</b> BD <b>0.295</b>   |
| BAS <b>1.750</b>               | SPL <b>4.265</b> MDL2 <b>0.190</b> MWT <b>238.00</b> |
| FSP <b>0.072</b>               | TPS <b>4.665</b> TL <b>0.150</b> MCG <b>7.120</b>    |

|  |                  |                       |  |
|--|------------------|-----------------------|--|
| <b>INCLINING TEST AND FREEBOARDS</b>     |                  |                       |  |
| Inclining Test <b>Current Inclining</b>  |                  |                       |  |
| Flotation date <b>26/07/2017</b>         |                  | SG <b>1.0280</b>      |  |
| FFM <b>1.384</b>                         | FF <b>1.383</b>  | SFFP <b>0.495</b>     |  |
| FAM <b>0.880</b>                         | FA <b>0.879</b>  | SAFP <b>11.846</b>    |  |
| W1 <b>97.4</b>                           | PD1 <b>536.6</b> | WD <b>12.650</b>      |  |
| W2 <b>97.4</b>                           | PD2 <b>535.8</b> | GSA <b>1.0</b>        |  |
| W3 <b>97.4</b>                           | PD3 <b>539.8</b> | RSA <b>1.0</b>        |  |
| W4 <b>97.4</b>                           | PD4 <b>543.0</b> | PLM <b>9000.0</b>     |  |
| LCF from stem on CL / on sheer           |                  | <b>6.971 / 7.280</b>  |  |
| Maximum beam station from stem           |                  | <b>8.785</b>          |  |
| RM Measured                              |                  | <b>180.1kg-m</b>      |  |
| RM Default                               |                  | <b>189.9kg-m</b>      |  |
| Limit of positive stability / Stab.Index |                  | <b>106.4° / 105.5</b> |  |
| Freeboard at mast at 4.261               |                  | <b>1.196</b>          |  |



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**2019**  
**IMS Measurement Certificate**

|                             |  |
|-----------------------------|--|
| <b>MIZZEN RIG AND SAILS</b> |  |
| <b>N/A</b>                  |  |

|                              |                    |                  |  |
|------------------------------|--------------------|------------------|--|
| <b>PROPELLER</b>             |                    |                  |  |
| Installation <b>Strut</b>    | PRD <b>0.432</b>   |                  |  |
| Type <b>Folding 3 blades</b> | PBW <b>0.130</b>   |                  |  |
| Twin Screw <b>No</b>         | PIPA <b>0.0039</b> |                  |  |
| ST1 <b>0.050</b>             | ST3 <b>0.185</b>   | ST5 <b>0.280</b> |  |
| ST2 <b>0.185</b>             | ST4 <b>0.112</b>   | EDL <b>3.150</b> |  |

|                               |  |
|-------------------------------|--|
| <b>Certificate</b>            |  |
| Number <b>I13/19</b>          |  |
| ORC Ref <b>AUT00002614</b>    |  |
| Issued On <b>23/05/2019</b>   |  |
| VPP Ver. <b>2019 1.01</b>     |  |
| Valid until <b>31/12/2019</b> |  |

|  |  |
|--|--|
| <b>COMMENTS</b>  |  |
| Can compete without f ridge and stove 2 batteries 65 amp for engine and house bank |  |

|                        |  |
|------------------------|--|
| <b>MOVABLE BALLAST</b> |  |
| <b>N/A</b>             |  |



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|                    |  |
|--------------------|--|
| <b>CENTERBOARD</b> |  |
| <b>N/A</b>         |  |

|                                 |            |            |            |            |            |   |
|---------------------------------|------------|------------|------------|------------|------------|---|
| <b>SAILS (Maximum Areas)</b>    |            |            |            |            |            |   |
| <b>Mainsail</b>                 | <b>MHB</b> | <b>MUW</b> | <b>MTW</b> | <b>MHW</b> | <b>MQW</b> | <b>Area Area (r) Formula</b>                                    |
|                                 | 0.180      | 1.21       | 2.08       | 3.51       | 4.60       | 49.79 50.85 P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB) |
| <b>Symmetric</b>                | <b>SLU</b> | <b>SLE</b> | <b>SL</b>  | <b>SHW</b> | <b>SFL</b> |   |
|                                 | 15.73      | 15.73      | 15.73      | 8.16       | 7.05       | 104.05 SL · (SFL + 4·SHW) / 6                                   |
| <b>Asymmetric on centerline</b> | <b>SLU</b> | <b>SLE</b> | <b>SL</b>  | <b>SHW</b> | <b>SFL</b> |   |
|                                 | 16.66      | 15.56      | 16.11      | 7.30       | 8.98       | 102.51 AS · (SFL + 4·SHW) / 6                                   |

|   |            |            |            |            |            |            |             |            |            |                  |                 |                |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| <b>HEADSAILS</b>  |            |            |            |            |            |            |             |            |            |                  |                 |                |
| Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB) |            |            |            |            |            |            |             |            |            |                  |                 |                |
| <b>HHB</b>  | <b>HUW</b> | <b>HTW</b> | <b>HHW</b> | <b>HQW</b> | <b>HLP</b> | <b>HLU</b> | <b>Area</b> | <b>Btn</b> | <b>Fly</b> | <b>Meas.Date</b> | <b>Material</b> | <b>Comment</b> |
| 0.13  | 0.78       | 1.40       | 2.52       | 3.56       | 4.54       | 15.05      | 36.68       |            |            | 10/05/2016       | Carbon          |                |
| 0.09  | 0.68       | 1.29       | 2.45       | 3.52       | 4.56       | 15.29      | 36.45       |            |            | 03/04/2019       | Carbon          | Xlight         |
| 0.11  | 0.70       | 1.29       | 2.39       | 3.48       | 4.52       | 15.06      | 35.51       |            |            | 14/09/2017       | Carbon          |                |
| 0.06  | 0.62       | 1.15       | 2.20       | 3.32       | 4.49       | 15.20      | 34.03       | Y          |            | 02/07/2016       | Kevlar          | Heavy 2016     |

|                              |             |               |                    |                        |
|------------------------------|-------------|---------------|--------------------|------------------------|
| <b>MEASUREMENT INVENTORY</b> |             |               |                    |                        |
| Measurer                     | Date        | Comment       |                    |                        |
| <i>Id</i>                    | <i>Item</i> | <i>Weight</i> | <i>Distance</i>    | <i>VCG Description</i> |
| <i>Id</i>                    | <i>Item</i> | <i>Weight</i> | <i>Description</i> |                        |

|                              |             |               |                 |                           |
|------------------------------|-------------|---------------|-----------------|---------------------------|
| <b>MEASUREMENT INVENTORY</b> |             |               |                 |                           |
| <i>Id</i>                    | <i>Item</i> | <i>Weight</i> | <i>Distance</i> | <i>VCG Description</i>    |
| A                            | Ballast     | 200.0         | 4.76            | LINGOTES DE PLOMO 100X2KG |

