

|   |                            |   |
|---|----------------------------|---|
| <b>BOAT</b><br>Name <b>SILVA</b><br>Sail Nr <b>EST 407</b>  | <b>GPH</b><br><b>632.1</b> | <b>HULL</b><br>Length Overall <b>10.640m</b><br>Maximum Beam <b>3.458m</b><br>Displacement <b>5,780kg</b><br>Draft <b>2.232m</b><br>IMS Reg. Division <b>Cruiser/Racer</b><br>Dynamic Allowance <b>0.188%</b><br>Fwd Accommodation <b>Yes</b><br>Hull Construction <b>Solid</b><br>Carbon Rudder <b>Yes</b><br>Crew Arm Extension |
| <b>GENERAL</b><br>Class <b>First 36.7</b><br>Designer <b>B.Farr</b><br>Builder <b>Beneteau S.A.</b><br>Series <b>01/2001</b><br>Age <b>05/2006</b><br>Age Allowance <b>0.487%</b><br>Offset File <b>B367-NR.OFF - 12/6/2007 9:00:04 AM</b><br>Measurement by <b>Rosme / Tagu - 14/04/2016</b> |                            | IMSL <b>9.632m</b> VCGD <b>0.125m</b> Sink <b>19.57kg/mm</b><br>RL <b>8.700m</b> VCGM <b>0.104m</b> WS <b>25.30m<sup>2</sup></b><br>LSMO <b>9.533m</b> Displacement/Length ratio <b>6.6717</b>  |



World Leader in Rating Technology

**2018**  
ORC International  
Certificate

**Rating Office**  
EYU  
Regati 1  
11911, Tallinn  
Estonia

| SCORING OPTIONS  |                         |               |               |                    |               |               |
|------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
|                  | COASTAL / LONG DISTANCE |               |               | WINDWARD / LEEWARD |               |               |
| Time on Distance | <b>612.7</b>            |               |               | <b>680.4</b>       |               |               |
| Time on Time     | <b>0.9793</b>           |               |               | <b>0.9920</b>      |               |               |
| Triple Number    | Low                     | Medium        | High          | Low                | Medium        | High          |
| Time on Distance | <b>726.5</b>            | <b>559.1</b>  | <b>500.1</b>  | <b>933.2</b>       | <b>684.3</b>  | <b>594.0</b>  |
| Time on Time     | <b>0.9291</b>           | <b>1.2072</b> | <b>1.3498</b> | <b>0.7233</b>      | <b>0.9864</b> | <b>1.1363</b> |

| TIME ALLOWANCES |               |              |              |              |              |              |              |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity   | 6 kt          | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Beat VMG        | <b>1051.9</b> | <b>876.0</b> | <b>771.5</b> | <b>715.9</b> | <b>697.4</b> | <b>690.4</b> | <b>691.0</b> |
| 52°             | <b>697.6</b>  | <b>588.6</b> | <b>531.5</b> | <b>508.4</b> | <b>499.1</b> | <b>495.5</b> | <b>494.2</b> |
| 60°             | <b>664.3</b>  | <b>563.3</b> | <b>517.6</b> | <b>497.6</b> | <b>487.0</b> | <b>482.6</b> | <b>480.1</b> |
| 75°             | <b>639.8</b>  | <b>546.6</b> | <b>508.2</b> | <b>488.4</b> | <b>474.3</b> | <b>463.8</b> | <b>455.5</b> |
| 90°             | <b>646.6</b>  | <b>545.7</b> | <b>500.6</b> | <b>481.9</b> | <b>470.3</b> | <b>455.0</b> | <b>431.8</b> |
| 110°            | <b>650.9</b>  | <b>538.9</b> | <b>494.9</b> | <b>470.6</b> | <b>449.3</b> | <b>433.7</b> | <b>415.3</b> |
| 120°            | <b>669.3</b>  | <b>551.9</b> | <b>501.1</b> | <b>475.2</b> | <b>451.8</b> | <b>429.5</b> | <b>397.7</b> |
| 135°            | <b>737.0</b>  | <b>601.3</b> | <b>525.3</b> | <b>491.8</b> | <b>469.0</b> | <b>446.1</b> | <b>403.0</b> |
| 150°            | <b>870.7</b>  | <b>692.3</b> | <b>586.9</b> | <b>522.8</b> | <b>492.3</b> | <b>470.8</b> | <b>428.9</b> |
| Run VMG         | <b>1005.3</b> | <b>799.4</b> | <b>677.0</b> | <b>595.2</b> | <b>539.2</b> | <b>502.6</b> | <b>459.8</b> |

**Certificate**  
Number **EST407**  
ORC Ref **EST00000049**  
Issued On **4/26/2018**  
VPP Ver. **2018 1.00**  
Valid until **12/31/2018**

**Crew Weight**  
Default **643kg**  
Maximum **685kg**  
Minimum\* **514kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

|              | ToD          | ToT           |
|--------------|--------------|---------------|
| Double H.GPH | <b>634.5</b> | <b>0.9456</b> |
| Double H.OSN | <b>617.3</b> | <b>0.9720</b> |
| Non Spin GPH | <b>662.5</b> | <b>0.9057</b> |
| Non Spin OSN | <b>640.9</b> | <b>0.9361</b> |

| Selected Courses        |               |              |              |              |              |              |              |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | 1028.6        | 837.7        | 724.2        | 655.6        | 618.3        | 596.5        | 575.4        |
| Windward / Leeward      |               |              |              |              |              |              |              |
| Circular Random         | <b>871.3</b>  | <b>703.2</b> | <b>613.1</b> | <b>561.1</b> | <b>529.5</b> | <b>509.4</b> | <b>485.6</b> |
| Coastal / Long Distance | <b>1026.3</b> | <b>787.8</b> | <b>654.3</b> | <b>576.6</b> | <b>538.7</b> | <b>509.6</b> | <b>463.8</b> |
| Non Spinnaker           | <b>925.9</b>  | <b>741.8</b> | <b>641.8</b> | <b>583.2</b> | <b>547.3</b> | <b>524.4</b> | <b>497.0</b> |

**Sails Limitations**

| Headsails | Spinnakers |
|-----------|------------|
| <b>5</b>  | <b>3</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>42.1°</b>  | <b>40.6°</b>  | <b>40.3°</b>  | <b>38.6°</b>  | <b>37.9°</b>  | <b>38.0°</b>  | <b>38.3°</b>  |
| Beat VMG  | <b>3.42</b>   | <b>4.11</b>   | <b>4.67</b>   | <b>5.03</b>   | <b>5.16</b>   | <b>5.21</b>   | <b>5.21</b>   |
| 52°   | <b>5.16</b>   | <b>6.12</b>   | <b>6.77</b>   | <b>7.08</b>   | <b>7.21</b>   | <b>7.27</b>   | <b>7.28</b>   |
| 60°   | <b>5.42</b>   | <b>6.39</b>   | <b>6.95</b>   | <b>7.23</b>   | <b>7.39</b>   | <b>7.46</b>   | <b>7.50</b>   |
| 75°   | <b>5.63</b>   | <b>6.59</b>   | <b>7.08</b>   | <b>7.37</b>   | <b>7.59</b>   | <b>7.76</b>   | <b>7.90</b>   |
| 90°   | <b>5.57</b>   | <b>6.60</b>   | <b>7.19</b>   | <b>7.47</b>   | <b>7.66</b>   | <b>7.91</b>   | <b>8.34</b>   |
| 110°  | <b>5.53</b>   | <b>6.68</b>   | <b>7.27</b>   | <b>7.65</b>   | <b>8.01</b>   | <b>8.30</b>   | <b>8.67</b>   |
| 120°  | <b>5.38</b>   | <b>6.52</b>   | <b>7.18</b>   | <b>7.58</b>   | <b>7.97</b>   | <b>8.38</b>   | <b>9.05</b>   |
| 135°  | <b>4.88</b>   | <b>5.99</b>   | <b>6.85</b>   | <b>7.32</b>   | <b>7.68</b>   | <b>8.07</b>   | <b>8.93</b>   |
| 150°  | <b>4.13</b>   | <b>5.20</b>   | <b>6.13</b>   | <b>6.89</b>   | <b>7.31</b>   | <b>7.65</b>   | <b>8.39</b>   |
| Run VMG   | <b>3.58</b>   | <b>4.50</b>   | <b>5.32</b>   | <b>6.05</b>   | <b>6.68</b>   | <b>7.16</b>   | <b>7.83</b>   |
| Gybe Angles                                       | <b>145.6°</b> | <b>150.1°</b> | <b>151.4°</b> | <b>157.1°</b> | <b>175.2°</b> | <b>180.0°</b> | <b>180.0°</b> |

**Class Division Length**  
CDL = **9.167**

**Storm Sails Areas**

|                     |              |
|---------------------|--------------|
| Heavy Weather Jib   | <b>27.06</b> |
| Storm Jib (JL=9.20) | <b>10.02</b> |
| Storm Trysail       | <b>10.87</b> |

|                     |                                 |
|---------------------|---------------------------------|
| <b>BOAT</b>         |                                 |
| Name <b>SILVA</b>   | Sail Nr <b>EST 407</b>          |
| File <b>Est0407</b> | Data in <b>meters/kilograms</b> |

|  |                  |                       |  |
|--|------------------|-----------------------|--|
| <b>INCLINING TEST AND FREEBOARDS</b>     |                  |                       |  |
| Inclining Test <b>Current Inclining</b>  |                  |                       |  |
| Flotation date <b>21/06/2012</b>         |                  | SG <b>1.0020</b>      |  |
| FFM <b>1.341</b>                         | FF <b>1.351</b>  | SFFP <b>0.367</b>     |  |
| FAM <b>1.028</b>                         | FA <b>1.035</b>  | SAFP <b>10.162</b>    |  |
| W1 <b>77.8</b>                           | PD1 <b>479.4</b> | WD <b>10.510</b>      |  |
| W2 <b>77.8</b>                           | PD2 <b>476.1</b> | GSA <b>1.0</b>        |  |
| W3 <b>77.8</b>                           | PD3 <b>473.0</b> | RSA <b>1.0</b>        |  |
| W4 <b>77.8</b>                           | PD4 <b>473.1</b> | PLM <b>9000.0</b>     |  |
| LCF from stem on CL / on sheer           |                  | <b>5.919 / 6.148</b>  |  |
| Maximum beam station from stem           |                  | <b>6.980</b>          |  |
| RM Measured                              |                  | <b>135.5kg·m</b>      |  |
| RM Default                               |                  | <b>140.0kg·m</b>      |  |
| Limit of positive stability / Stab.Index |                  | <b>113.9° / 116.2</b> |  |
| Freeboard at mast at 4.010               |                  | <b>1.189</b>          |  |



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**2018**

**IMS Measurement Certificate**

|                                |                            |                   |                   |  |
|--------------------------------|----------------------------|-------------------|-------------------|--|
| <b>RIG</b>                     |                            |                   |                   |  |
| Forestay Tension <b>Aft</b>    | Spreaders <b>3</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>13.500</b>                | E <b>4.600</b>             | MDT1 <b>0.102</b> | MW <b>0.187</b>   |  |
| IG <b>14.090</b>               | J <b>4.010</b>             | MDL1 <b>0.187</b> | GO <b>0.206</b>   |  |
| ISP <b>14.120</b>              | SFJ <b>0.000</b>           | MDT2 <b>0.102</b> | BD <b>0.160</b>   |  |
| BAS <b>1.577</b>               | SPL <b>4.000</b>           | MDL2 <b>0.174</b> | MWT <b>149.00</b> |  |
| FSP <b>0.066</b>               | TPS                        | TL <b>0.370</b>   | MCG <b>5.100</b>  |  |

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

|                              |                    |                  |  |
|------------------------------|--------------------|------------------|--|
| <b>PROPELLER</b>             |                    |                  |  |
| Installation <b>Strut</b>    | PRD <b>0.410</b>   |                  |  |
| Type <b>Folding 2 blades</b> | PBW                |                  |  |
| Twin Screw <b>No</b>         | PIPA <b>0.0027</b> |                  |  |
| ST1 <b>0.042</b>             | ST3 <b>0.180</b>   | ST5 <b>0.280</b> |  |
| ST2 <b>0.180</b>             | ST4 <b>0.090</b>   | EDL <b>2.480</b> |  |

|                 |  |
|-----------------|--|
| <b>COMMENTS</b> |  |
|                 |  |

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

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

**Certificate**

Number **EST407**

ORC Ref **EST00000049**

Issued On **4/26/2018**

VPP Ver. **2018 1.00**

Valid until **12/31/2018**

|                              |       |       |       |      |      |       |          |   |  |
|------------------------------|-------|-------|-------|------|------|-------|----------|---|--|
| <b>SAILS (Maximum Areas)</b> |       |       |       |      |      |       |          |   |  |
| Mainsail                     | MHB   | MUW   | MTW   | MHW  | MQW  | Area  | Area (r) | Formula   |  |
|                              | 0.355 | 0.99  | 1.70  | 2.81 | 3.76 | 36.21 | 36.80    | P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB) |  |
| Symmetric                    | SLU   | SLE   | SL    | SHW  | SFL  | 87.95 |          | SL · (SFL + 4·SHW) / 6                              |  |
|                              | 13.99 | 13.99 | 13.99 | 7.59 | 7.36 |       |          |   |  |
| Asymmetric<br>Not Available  |       |       |       |      |      |       |          |   |  |

|   |            |            |            |            |            |            |             |            |            |                  |                 |                |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| <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> |
| 0.09  | 0.67       | 1.30       | 2.58       | 3.88       | 5.27       | 13.67      | 35.68       |            |            | 14/04/2018       | Unknow          | Light-Medium   |
| 0.10  | 0.63       | 1.22       | 2.48       | 3.83       | 5.29       | 13.71      | 35.13       |            |            | 14/04/2018       | Unknow          | Heavy          |
| 0.10  | 0.56       | 1.05       | 2.05       | 3.06       | 4.02       | 13.83      | 28.34       |            |            | 14/04/2018       | Unknow          | G3             |

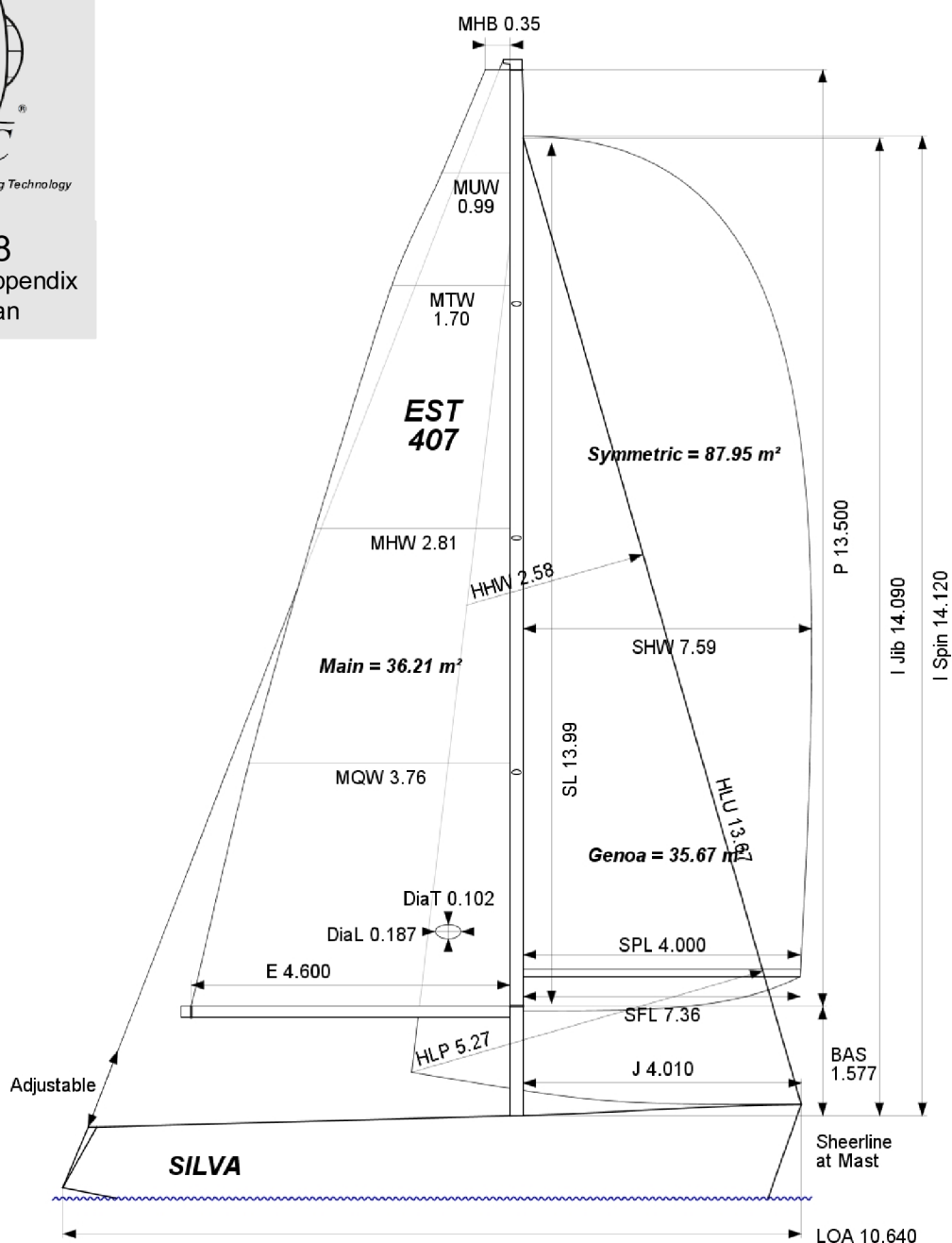
|                                   |             |                           |                 |                        |
|-----------------------------------|-------------|---------------------------|-----------------|------------------------|
| <b>MEASUREMENT INVENTORY</b>      |             |                           |                 |                        |
| Measurer <b>Veiko Rosme EST 2</b> |             |                           |                 |                        |
| Date <b>21/06/2012</b>            |             |                           |                 |                        |
| Comment                           |             |                           |                 |                        |
| <i>Id</i>                         | <i>Item</i> | <i>Weight</i>             | <i>Distance</i> | <i>VCG Description</i> |
| 4                                 | Anchor      | 40.0                      | 5.40            | Anchor-stb.            |
| 2                                 | Anchor      | 40.0                      | 5.40            | Anchor-srb.            |
| 4                                 | Tools       | 5.0                       | 7.20            | Toolbox-stb.           |
| 2                                 | Tools       | 2.5                       | 7.20            | Toolbox-stb.           |
| <i>Id</i>                         | <i>Item</i> | <i>Maker</i>              | <i>Model</i>    |                        |
| 1                                 | Engine      | Yanmar                    | 3YM30           |                        |
| <i>Id</i>                         | <i>Item</i> | <i>Weight Description</i> |                 |                        |

|                              |             |                 |                  |                             |              |            |                           |
|------------------------------|-------------|-----------------|------------------|-----------------------------|--------------|------------|---------------------------|
| <b>MEASUREMENT INVENTORY</b> |             |                 |                  |                             |              |            |                           |
| <i>Id</i>                    | <i>Item</i> | <i>Tank Use</i> | <i>Tank Type</i> | <i>Capcty</i>               | <i>Dist.</i> | <i>VCG</i> | <i>Condtn Description</i> |
| 1                            | Tank        | Water           | plastic          | 150.0                       | 4.75         |            | 0-0 Fresh Water, stb.     |
| 2                            | Tank        | Water           | plastic          | 150.0                       | 4.75         |            | 0-0 Fresh Water, ports.   |
| 3                            | Tank        | Fuel            | plastic          | 75.0                        | 8.80         |            | 0-0 Fuel Tank             |
| <i>Id</i>                    | <i>Item</i> | <i>Weight</i>   | <i>Distance</i>  | <i>VCG Description</i>      |              |            |                           |
| 1                            | Battery     |                 | 6.90             | 2x100 Ah under engine cover |              |            |                           |
| 2                            | Battery     |                 | 7.90             | 100 Ah, stb                 |              |            |                           |
| 1                            | Misc        |                 | 8.00             | Boiler Quick Nautic, ports. |              |            |                           |
| 2                            | Misc        |                 | 10.00            | Heater Eberspracher         |              |            |                           |
| 3                            | Misc        | 8.0             | 7.20             | Life jackets                |              |            |                           |



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2018  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

| MAINSAIL (1)              |       |       |       |      |      |       |          |            |             |             |          |          |            |             |          |              |
|---------------------------|-------|-------|-------|------|------|-------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|--------------|
| Id                        | MHB   | MUW   | MTW   | MHW  | MQW  | Area  | Measurer | Meas.Date  | Manufacture | Material    | Comment  |          |            |             |          |              |
| 4a                        | 0.355 | 0.99  | 1.70  | 2.81 | 3.76 | 36.21 | EST 7    | 14/04/2018 | OneSails    | Unknown     | Comment  |          |            |             |          |              |
| HEADSAILS (3)             |       |       |       |      |      |       |          |            |             |             |          |          |            |             |          |              |
| Id                        | HHB   | HUW   | HTW   | HHW  | HQW  | HLP   | HLU      | Ovrlp      | Area        | Btn         | Fly      | Measurer | Meas.Date  | Manufacture | Material | Comment      |
| 4b                        | 0.09  | 0.67  | 1.30  | 2.58 | 3.88 | 5.27  | 13.67    | 131%       | 35.68       |             |          | EST 7    | 14/04/2018 | North       | Unknow   | Light-Medium |
| 6a                        | 0.10  | 0.63  | 1.22  | 2.48 | 3.83 | 5.29  | 13.71    | 132%       | 35.13       |             |          | EST 7    | 14/04/2018 | North       | Unknow   | Heavy        |
| 7a                        | 0.10  | 0.56  | 1.05  | 2.05 | 3.06 | 4.02  | 13.83    | 100%       | 28.34       |             |          | EST 7    | 14/04/2018 |             | Unknow   | G3           |
| SYMMETRIC SPINNAKERS (4)  |       |       |       |      |      |       |          |            |             |             |          |          |            |             |          |              |
| Id                        | SLU   | SLE   | SL    | SHW  | SFL  | Area  | Measurer | Meas.Date  | Manufacture | Material    | Comment  |          |            |             |          |              |
| 1                         | 13.99 | 13.99 | 13.99 | 7.59 | 7.36 | 87.95 | D206     | 20/06/2006 |             | Unknown     | kollane  |          |            |             |          |              |
| 7                         | 13.75 | 13.75 | 13.75 | 7.70 | 7.22 | 87.13 | EST 7    | 14/04/2018 |             | Unknown     | S-1      |          |            |             |          |              |
| 5                         | 13.92 | 13.92 | 13.92 | 7.55 | 7.27 | 86.93 | EST 2    | 28/05/2013 |             | Unknown     | S-2      |          |            |             |          |              |
| 3                         | 13.80 | 13.80 | 13.80 | 6.50 | 7.06 | 76.04 |          |            |             | Unknown     | sinine   |          |            |             |          |              |
| ASYMMETRIC SPINNAKERS (0) |       |       |       |      |      |       |          |            |             |             |          |          |            |             |          |              |
| Id                        | SLU   | SLE   | SL    | SHW  | SFL  | Area  | Kind     | Measurer   | Meas.Date   | Manufacture | Material | Comment  |            |             |          |              |