

|   |                            |  |
|---|----------------------------|--|
| <b>BOAT</b><br>Name <b>DEMON X</b><br>Sail Nr <b>ITA-15338</b>  | <b>GPH</b><br><b>607.4</b> | <b>HULL</b><br>Length Overall <b>10.600m</b><br>Maximum Beam <b>3.250m</b><br>Displacement <b>4,582kg</b><br>Draft <b>2.008m</b><br>IMS Reg. Division <b>Cruiser/Racer</b><br>Dynamic Allowance <b>0.000%</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>X-35 MOD.</b><br>Designer <b>JEPPESEN</b><br>Builder <b>X YACHTS</b><br>Series <b>09/2005</b><br>Age <b>09/2005</b><br>Age Allowance <b>0.455%</b><br>Offset File <b>I15338N.off - 13/06/2017 19:15:36</b><br>Measurement by - <b>30/03/2019</b> |                            | IMSL <b>9.496m</b> VCGD <b>0.087m</b> Sink <b>17.55kg/mm</b><br>RL <b>8.831m</b> VCGM <b>0.072m</b> WS <b>23.06m<sup>2</sup></b><br>LSM0 <b>9.343m</b> Displacement/Length ratio <b>5.6182</b>   |



**2019**  
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Certificate

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Offshore  
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Congress



| <b>SCORING OPTIONS</b> |                                |               |               |                           |               |               |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
|                        | <b>COASTAL / LONG DISTANCE</b> |               |               | <b>WINDWARD / LEEWARD</b> |               |               |
| Time on Distance       | <b>592.3</b>                   |               |               | <b>660.3</b>              |               |               |
| Time on Time           | <b>1.0130</b>                  |               |               | <b>1.0223</b>             |               |               |
| Triple Number          | Low                            | Medium        | High          | Low                       | Medium        | High          |
| Time on Distance       | <b>684.9</b>                   | <b>541.2</b>  | <b>487.3</b>  | <b>882.8</b>              | <b>662.4</b>  | <b>583.7</b>  |
| Time on Time           | <b>0.9856</b>                  | <b>1.2472</b> | <b>1.3851</b> | <b>0.7646</b>             | <b>1.0190</b> | <b>1.1564</b> |

| <b>TIME ALLOWANCES</b> |              |              |              |              |              |              |              |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity          | 6 kt         | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Beat VMG               | <b>995.7</b> | <b>824.9</b> | <b>738.0</b> | <b>710.6</b> | <b>699.7</b> | <b>688.3</b> | <b>684.9</b> |
| 52°                    | <b>654.7</b> | <b>553.2</b> | <b>513.9</b> | <b>502.5</b> | <b>497.8</b> | <b>495.0</b> | <b>488.3</b> |
| 60°                    | <b>619.1</b> | <b>533.6</b> | <b>501.6</b> | <b>489.5</b> | <b>484.4</b> | <b>481.8</b> | <b>473.0</b> |
| 75°                    | <b>591.8</b> | <b>520.8</b> | <b>492.1</b> | <b>474.6</b> | <b>464.0</b> | <b>458.5</b> | <b>451.8</b> |
| 90°                    | <b>597.2</b> | <b>517.4</b> | <b>486.5</b> | <b>470.5</b> | <b>451.7</b> | <b>437.1</b> | <b>423.6</b> |
| 110°                   | <b>605.2</b> | <b>513.7</b> | <b>478.8</b> | <b>452.1</b> | <b>433.0</b> | <b>419.4</b> | <b>399.3</b> |
| 120°                   | <b>625.2</b> | <b>523.9</b> | <b>484.8</b> | <b>455.7</b> | <b>428.3</b> | <b>403.7</b> | <b>374.8</b> |
| 135°                   | <b>694.7</b> | <b>565.6</b> | <b>505.6</b> | <b>475.3</b> | <b>447.3</b> | <b>420.1</b> | <b>364.0</b> |
| 150°                   | <b>823.4</b> | <b>657.9</b> | <b>558.1</b> | <b>505.2</b> | <b>476.9</b> | <b>450.8</b> | <b>400.6</b> |
| Run VMG                | <b>950.8</b> | <b>759.7</b> | <b>643.5</b> | <b>571.2</b> | <b>520.1</b> | <b>488.1</b> | <b>438.4</b> |

**Certificate**  
Number **153381**  
ORC Ref **ITA00052952**  
Issued On **29/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **625kg**  
Maximum **670kg**  
Minimum\* **503kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Double H.GPH **619.4 0.9686**  
Double H.OSN **606.3 0.9896**  
Non Spin GPH **637.9 0.9406**  
Non Spin OSN **620.9 0.9663**

| <b>Selected Courses</b> |              |              |              |              |              |              |              |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward      | <b>973.2</b> | <b>792.3</b> | <b>690.7</b> | <b>640.9</b> | <b>609.9</b> | <b>588.2</b> | <b>561.7</b> |
| Circular Random         | <b>826.1</b> | <b>671.4</b> | <b>589.8</b> | <b>543.4</b> | <b>514.9</b> | <b>495.9</b> | <b>470.3</b> |
| Coastal / Long Distance | <b>971.0</b> | <b>745.5</b> | <b>626.2</b> | <b>563.5</b> | <b>527.7</b> | <b>496.7</b> | <b>449.1</b> |
| Non Spinnaker           | <b>880.9</b> | <b>710.0</b> | <b>618.6</b> | <b>565.8</b> | <b>533.4</b> | <b>512.1</b> | <b>484.7</b> |

**Sails Limitations**  
Headsails **5** Spinnakers **3**

| <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>42.5°</b>  | <b>41.6°</b>  | <b>39.9°</b>  | <b>38.5°</b>  | <b>38.1°</b>  | <b>38.1°</b>  | <b>38.5°</b>  |
| Beat VMG   | <b>3.62</b>   | <b>4.36</b>   | <b>4.88</b>   | <b>5.07</b>   | <b>5.14</b>   | <b>5.23</b>   | <b>5.26</b>   |
| 52°  | <b>5.50</b>   | <b>6.51</b>   | <b>7.00</b>   | <b>7.16</b>   | <b>7.23</b>   | <b>7.27</b>   | <b>7.37</b>   |
| 60°  | <b>5.82</b>   | <b>6.75</b>   | <b>7.18</b>   | <b>7.35</b>   | <b>7.43</b>   | <b>7.47</b>   | <b>7.61</b>   |
| 75°  | <b>6.08</b>   | <b>6.91</b>   | <b>7.32</b>   | <b>7.59</b>   | <b>7.76</b>   | <b>7.85</b>   | <b>7.97</b>   |
| 90°  | <b>6.03</b>   | <b>6.96</b>   | <b>7.40</b>   | <b>7.65</b>   | <b>7.97</b>   | <b>8.24</b>   | <b>8.50</b>   |
| 110°   | <b>5.95</b>   | <b>7.01</b>   | <b>7.52</b>   | <b>7.96</b>   | <b>8.31</b>   | <b>8.58</b>   | <b>9.02</b>   |
| 120°   | <b>5.76</b>   | <b>6.87</b>   | <b>7.43</b>   | <b>7.90</b>   | <b>8.40</b>   | <b>8.92</b>   | <b>9.61</b>   |
| 135°   | <b>5.18</b>   | <b>6.36</b>   | <b>7.12</b>   | <b>7.57</b>   | <b>8.05</b>   | <b>8.57</b>   | <b>9.89</b>   |
| 150°   | <b>4.37</b>   | <b>5.47</b>   | <b>6.45</b>   | <b>7.13</b>   | <b>7.55</b>   | <b>7.99</b>   | <b>8.99</b>   |
| Run VMG  | <b>3.79</b>   | <b>4.74</b>   | <b>5.59</b>   | <b>6.30</b>   | <b>6.92</b>   | <b>7.38</b>   | <b>8.21</b>   |
| Gybe Angles  | <b>142.2°</b> | <b>148.3°</b> | <b>151.2°</b> | <b>158.8°</b> | <b>180.0°</b> | <b>180.0°</b> | <b>180.0°</b> |

**Class Division Length**  
CDL = **9.165**

**Storm Sails Areas**  
Heavy Weather Jib **28.66**  
Storm Jib (JL=9.48) **10.62**  
Storm Trysail **11.61**

**Owner**

|                     |                                 |
|---------------------|---------------------------------|
| <b>BOAT</b>         |                                 |
| Name <b>DEMON X</b> | Sail Nr <b>ITA-15338</b>        |
| File <b>I15338</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>Yes</b>       | Main Furler <b>No</b>                            |
| Lenticular Rigging <b>No</b>   | Without Backstay <b>No</b>                       |
| Articulated Bowsprit <b>No</b> |  |
| P <b>13.870</b>                | E <b>4.780</b> MDT1 <b>0.125</b> MW <b>0.184</b> |
| IG <b>14.500</b>               | J <b>4.170</b> MDL1 <b>0.184</b> GO <b>0.204</b> |
| ISP <b>14.530</b>              | SFJ MDT2 <b>0.122</b> BD <b>0.220</b>            |
| BAS <b>1.755</b>               | SPL <b>4.170</b> MDL2 <b>0.140</b> MWT           |
| FSP <b>0.069</b>               | TPS <b>4.650</b> TL <b>1.230</b> MCG             |

|  |                  |                       |  |
|--|------------------|-----------------------|--|
| <b>INCLINING TEST AND FREEBOARDS</b>     |                  |                       |  |
| Inclining Test <b>Current Inclining</b>  |                  |                       |  |
| Flotation date <b>30/03/2019</b>         |                  | SG <b>1.0230</b>      |  |
| FFM <b>1.300</b>                         | FF <b>1.301</b>  | SFFP <b>0.075</b>     |  |
| FAM <b>1.003</b>                         | FA <b>1.004</b>  | SAFP <b>10.281</b>    |  |
| W1 <b>71.7</b>                           | PD1 <b>591.1</b> | WD <b>11.270</b>      |  |
| W2 <b>71.7</b>                           | PD2 <b>591.2</b> | GSA <b>1.0</b>        |  |
| W3 <b>71.7</b>                           | PD3 <b>592.0</b> | RSA <b>1.0</b>        |  |
| W4 <b>71.7</b>                           | PD4 <b>591.8</b> | PLM <b>9000.0</b>     |  |
| LCF from stem on CL / on sheer           |                  | <b>5.914 / 6.114</b>  |  |
| Maximum beam station from stem           |                  | <b>7.300</b>          |  |
| RM Measured                              |                  | <b>107.6kg-m</b>      |  |
| RM Default                               |                  | <b>121.6kg-m</b>      |  |
| Limit of positive stability / Stab.Index |                  | <b>114.9° / 115.8</b> |  |
| Freeboard at mast at 4.170               |                  | <b>1.097</b>          |  |



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

|                              |                    |                  |  |
|------------------------------|--------------------|------------------|--|
| <b>PROPELLER</b>             |                    |                  |  |
| Installation <b>Strut</b>    | PRD <b>0.415</b>   |                  |  |
| Type <b>Folding 2 blades</b> | PBW <b>0.128</b>   |                  |  |
| Twin Screw <b>No</b>         | PIPA <b>0.0033</b> |                  |  |
| ST1 <b>0.042</b>             | ST3 <b>0.180</b>   | ST5 <b>0.255</b> |  |
| ST2 <b>0.180</b>             | ST4 <b>0.112</b>   | EDL <b>2.140</b> |  |

|                               |  |
|-------------------------------|--|
| <b>Certificate</b>            |  |
| Number <b>153381</b>          |  |
| ORC Ref <b>ITA00052952</b>    |  |
| Issued On <b>29/05/2019</b>   |  |
| VPP Ver. <b>2019 1.01</b>     |  |
| Valid until <b>31/12/2019</b> |  |

|                       |  |
|-----------------------|--|
| <b>COMMENTS</b>       |  |
| CUCINA DUE FUOCHI ACL |  |

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

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

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|                                 |            |            |            |            |            |             |                 |  |  |
|---------------------------------|------------|------------|------------|------------|------------|-------------|-----------------|--|--|
| <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</b> | <b>Area (r)</b> | <b>Formula</b>                                     |  |
|                                 | 0.420      | 1.18       | 1.95       | 3.23       | 4.15       | 41.36       | 42.34           | 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> |             |                 |  |  |
|                                 | 14.33      | 14.33      | 14.33      | 7.74       | 7.61       | 92.12       |                 | 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> |             |                 |  |  |
|                                 | 14.80      | 13.85      | 14.32      | 7.50       | 7.46       | 89.44       |                 | AS · (SFL + 4·SHW) / 6                             |  |

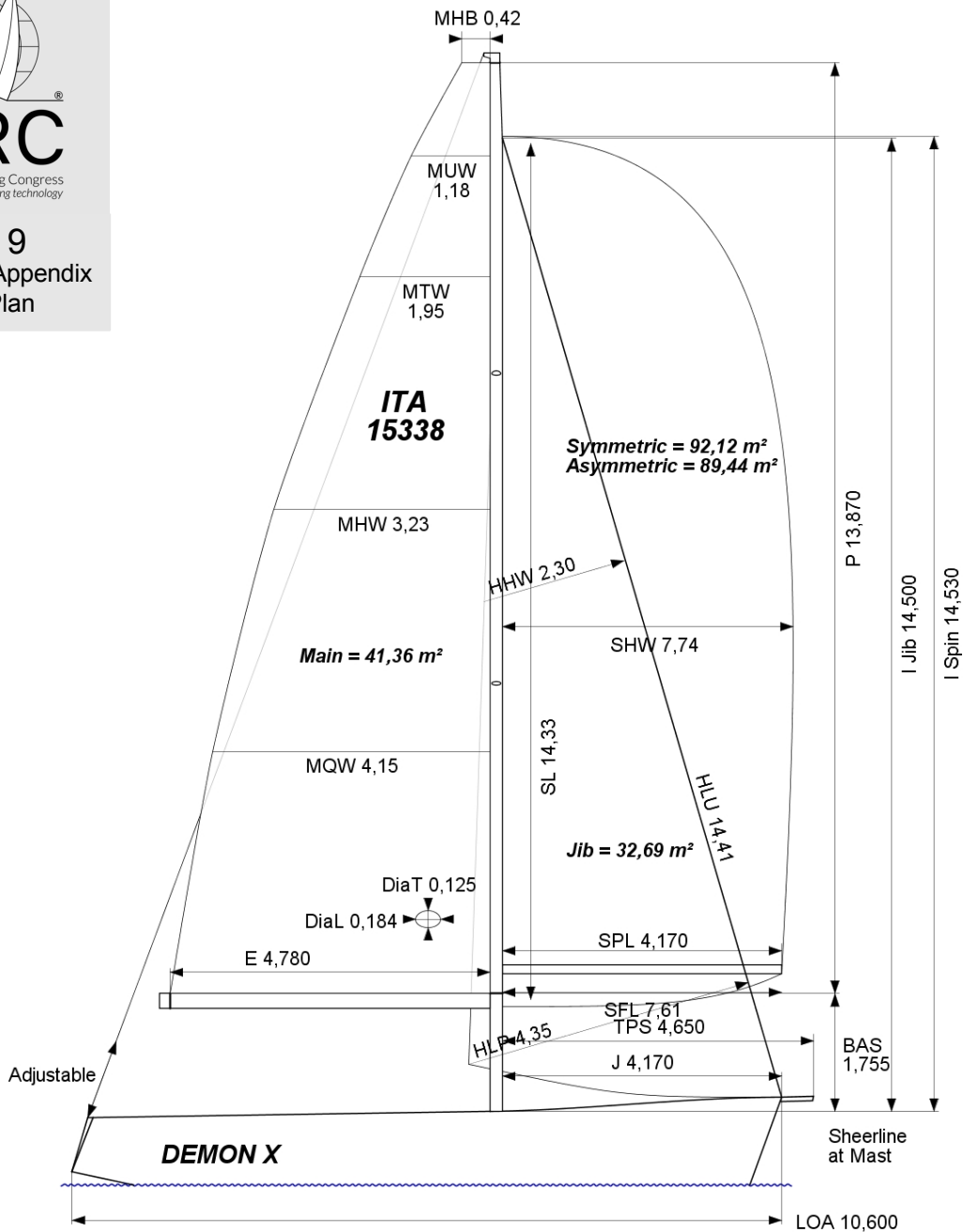
|   |            |            |            |            |            |            |             |            |            |                  |                 |                |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| <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> |
| 0.09  | 0.66       | 1.25       | 2.30       | 3.35       | 4.35       | 14.41      | 32.69       | Y          | N          | 30/03/2019       | Unknow          | JL             |
| 0.10  | 0.65       | 1.22       | 2.29       | 3.33       | 4.34       | 14.40      | 32.47       | Y          | N          | 30/03/2019       | Unknow          | JM             |
| 0.09  | 0.62       | 1.17       | 2.25       | 3.31       | 4.35       | 14.42      | 32.16       | Y          | N          | 26/06/2017       | Unknow          |                |
| 0.09  | 0.61       | 1.15       | 2.25       | 3.33       | 4.35       | 14.37      | 32.05       | Y          | N          | 10/06/2017       | Unknow          | J2             |
| 0.05  | 0.35       | 0.66       | 1.29       | 1.93       | 2.55       | 13.00      | 16.81       | N          | Y          | 26/06/2017       | Unknow          | STAYSAIL       |

|                                       |             |                           |                 |                        |
|---------------------------------------|-------------|---------------------------|-----------------|------------------------|
| <b>MEASUREMENT INVENTORY</b>          |             |                           |                 |                        |
| Measurer <b>FIV 138</b>               |             |                           |                 |                        |
| Date <b>30/03/2019</b>                |             |                           |                 |                        |
| Comment <b>CALMA DI V. MARE CALMO</b> |             |                           |                 |                        |
| <b>Id</b>                             | <b>Item</b> | <b>Weight</b>             | <b>Distance</b> | <b>VCG Description</b> |
| <b>Id</b>                             | <b>Item</b> | <b>Maker</b>              | <b>Model</b>    |                        |
| A                                     | Engine      | YAN MAR                   | RCD-SAIL        |                        |
| <b>Id</b>                             | <b>Item</b> | <b>Weight Description</b> |                 |                        |

|                              |             |                 |                  |                        |              |            |               |                    |
|------------------------------|-------------|-----------------|------------------|------------------------|--------------|------------|---------------|--------------------|
| <b>MEASUREMENT INVENTORY</b> |             |                 |                  |                        |              |            |               |                    |
| <b>Id</b>                    | <b>Item</b> | <b>Tank Use</b> | <b>Tank Type</b> | <b>Capcty</b>          | <b>Dist.</b> | <b>VCG</b> | <b>Condtn</b> | <b>Description</b> |
| A                            | Tank        | WATER           | PVC              | 150.0                  | 5.40         | 0.00       | 0-0           | VUOTO/EMPTY        |
| B                            | Tank        | FUEL            | INOX             | 60.0                   | 6.10         | 0.00       | 0-0           | L                  |
| <b>Id</b>                    | <b>Item</b> | <b>Weight</b>   | <b>Distance</b>  | <b>VCG Description</b> |              |            |               |                    |
| a                            | Battery     | 17.0            | 5.20             | 0.00 55 Ah             |              |            |               |                    |
| B                            | Battery     | 36.5            | 4.80             | 0.00 145 Ah            |              |            |               |                    |
| A                            | Misc        | 15.0            | 7.60             | 0.00 BOILER            |              |            |               |                    |



2019  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (2)**

| Id | MHB  | MUW  | MTW  | MHW  | MQW  | Area  | Measurer | Meas.Date  | Manufacture | Material | Comment |
|----|------|------|------|------|------|-------|----------|------------|-------------|----------|---------|
| D  | 0.42 | 1.18 | 1.95 | 3.23 | 4.15 | 41.36 |          | 08/11/2017 |             | Unknown  |         |
| C  | 0.32 | 1.11 | 1.92 | 3.22 | 4.13 | 40.97 |          | 12/10/2017 | OLIMPIC     | Unknown  |         |

**HEADSAILS (5)**

| Id | HHB  | HUW  | HTW  | HHW  | HQW  | HLP  | HLU   | Ovrlp | Area  | Btn | Fly | Measurer | Meas.Date  | Manufacture | Material | Comment  |
|----|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|------------|-------------|----------|----------|
| H  | 0.09 | 0.66 | 1.25 | 2.30 | 3.35 | 4.35 | 14.41 | 104%  | 32.69 | Y   | N   |          | 30/03/2019 | NORTH S.    | Unknown  | JL       |
| G  | 0.10 | 0.65 | 1.22 | 2.29 | 3.33 | 4.34 | 14.40 | 104%  | 32.47 | Y   | N   |          | 30/03/2019 | NORTH S.    | Unknown  | JM       |
| E  | 0.09 | 0.62 | 1.17 | 2.25 | 3.31 | 4.35 | 14.42 | 104%  | 32.16 | Y   | N   |          | 26/06/2017 | OLIMPIC     | Unknown  |          |
| D  | 0.09 | 0.61 | 1.15 | 2.25 | 3.33 | 4.35 | 14.37 | 104%  | 32.05 | Y   | N   |          | 10/06/2017 | OLIMPIC     | Unknown  | J2       |
| F  | 0.05 | 0.35 | 0.66 | 1.29 | 1.93 | 2.55 | 13.00 | 61%   | 16.81 | N   | Y   |          | 26/06/2017 | OLIMPIC     | Unknown  | STAYSAIL |

**SYMMETRIC SPINNAKERS (1)**

| Id | SLU   | SLE   | SL    | SHW  | SFL  | Area  | Measurer | Meas.Date  | Manufacture   | Material | Comment |
|----|-------|-------|-------|------|------|-------|----------|------------|---------------|----------|---------|
| E  | 14.33 | 14.33 | 14.33 | 7.74 | 7.61 | 92.12 |          | 01/06/2017 | Olimpic Sails | Nylon    | S2      |

**ASYMMETRIC SPINNAKERS (2)**

| Id | SLU   | SLE   | SL    | SHW  | SFL  | Area  | Kind | Measurer | Meas.Date  | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|------|----------|------------|-------------|----------|---------|
| B  | 14.80 | 13.85 | 14.32 | 7.50 | 7.46 | 89.44 | asym |          | 30/03/2019 | NORTH S.    | Unknown  | A1      |
| A  | 14.58 | 13.84 | 14.21 | 5.36 | 7.13 | 67.67 | asym |          | 03/04/2018 | QUANTUM     | Unknown  |         |