

|   |
|---|
| <b>BOAT</b>                                     |
| Name <b>ENTROPY</b><br>Sail Nr <b>USA 50400</b> |

|              |
|--------------|
| <b>GPH</b>   |
| <b>539.9</b> |

|  |
|--|
| <b>HULL</b>  |
| Length Overall <b>12.494m</b>                                      |
| Maximum Beam <b>3.859m</b>   |
| Displacement <b>6,189kg</b>  |
| Draft <b>2.914m</b>  |
| Plan Review  |
| IMS Reg. Division <b>Performance</b>                               |
| Dynamic Allowance <b>0.000%</b>                                    |
| Hull Construction <b>Cored</b>                                     |
| Carbon Rudder <b>Yes</b>   |
| Crew Arm Extension <b>0.00</b>                                     |
| IMSL <b>11.354m</b> VCGD <b>-0.147m</b> Sink <b>23.54kg/mm</b>     |
| RL <b>11.183m</b> VCGM <b>-0.147m</b> WS <b>30.46m<sup>2</sup></b> |
| LSM0 <b>11.011m</b> Displacement/Length ratio <b>4.6360</b>        |



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020**  
ORC International  
Certificate

|   |
|---|
| <b>GENERAL</b>  |
| Class <b>TRIPP 41</b>                                 |
| Designer <b>TRIPP</b>                                 |
| Builder <b>HOLBY</b>                                  |
| Series <b>06/1997</b>                                 |
| Age <b>06/1997</b>                                    |
| Age Allowance <b>0.487%</b>                           |
| Offset File <b>US30811D.OFF - 12/07/2018 13:04:44</b> |
| Measurement by - <b>10/04/2002</b>                    |

**Rating Office**

Offshore  
Racing  
Congress

|                        |                                |               |               |                           |               |               |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| <b>SCORING OPTIONS</b> | <b>COASTAL / LONG DISTANCE</b> |               |               | <b>WINDWARD / LEEWARD</b> |               |               |
| Time on Distance       | <b>527.7</b>                   |               |               | <b>594.0</b>              |               |               |
| Time on Time           | <b>1.1371</b>                  |               |               | <b>1.1363</b>             |               |               |
| Triple Number          | Low                            | Medium        | High          | Low                       | Medium        | High          |
| Time on Distance       | <b>606.4</b>                   | <b>482.4</b>  | <b>431.7</b>  | <b>786.3</b>              | <b>594.8</b>  | <b>526.5</b>  |
| Time on Time           | <b>1.1131</b>                  | <b>1.3992</b> | <b>1.5637</b> | <b>0.8584</b>             | <b>1.1348</b> | <b>1.2821</b> |



|                        |              |              |              |              |              |              |              |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>TIME ALLOWANCES</b> | 6 kt         | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Wind Velocity          |              |              |              |              |              |              |              |
| Beat VMG               | <b>891.5</b> | <b>734.6</b> | <b>657.1</b> | <b>631.4</b> | <b>619.7</b> | <b>607.8</b> | <b>598.3</b> |
| 52°                    | <b>589.9</b> | <b>497.4</b> | <b>464.1</b> | <b>453.7</b> | <b>448.5</b> | <b>445.5</b> | <b>436.2</b> |
| 60°                    | <b>558.5</b> | <b>481.2</b> | <b>453.4</b> | <b>441.6</b> | <b>435.5</b> | <b>431.8</b> | <b>420.3</b> |
| 75°                    | <b>516.2</b> | <b>460.7</b> | <b>443.4</b> | <b>426.2</b> | <b>414.0</b> | <b>407.3</b> | <b>399.6</b> |
| 90°                    | <b>502.8</b> | <b>450.3</b> | <b>426.1</b> | <b>410.4</b> | <b>398.8</b> | <b>387.0</b> | <b>372.0</b> |
| 110°                   | <b>520.8</b> | <b>457.0</b> | <b>426.9</b> | <b>398.4</b> | <b>374.8</b> | <b>357.7</b> | <b>335.0</b> |
| 120°                   | <b>550.0</b> | <b>463.3</b> | <b>428.7</b> | <b>399.2</b> | <b>379.9</b> | <b>354.5</b> | <b>314.8</b> |
| 135°                   | <b>614.5</b> | <b>493.9</b> | <b>447.6</b> | <b>416.7</b> | <b>385.5</b> | <b>354.7</b> | <b>303.6</b> |
| 150°                   | <b>731.1</b> | <b>584.6</b> | <b>496.4</b> | <b>450.4</b> | <b>427.2</b> | <b>401.8</b> | <b>342.8</b> |
| Run VMG                | <b>844.2</b> | <b>675.0</b> | <b>573.2</b> | <b>519.9</b> | <b>493.3</b> | <b>464.0</b> | <b>395.9</b> |

**Certificate**

Number **US6019**  
ORC Ref **0341000M8R**  
Issued On **08/07/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

|                         |              |              |              |              |              |              |              |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Selected Courses</b> | 6 kt         | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Windward / Leeward      | <b>867.8</b> | <b>704.8</b> | <b>615.1</b> | <b>575.7</b> | <b>556.5</b> | <b>535.9</b> | <b>497.1</b> |
| Circular Random         | <b>732.3</b> | <b>596.2</b> | <b>524.7</b> | <b>483.7</b> | <b>457.8</b> | <b>439.2</b> | <b>410.7</b> |
| Coastal / Long Distance | <b>865.4</b> | <b>662.8</b> | <b>557.4</b> | <b>502.1</b> | <b>473.2</b> | <b>443.5</b> | <b>391.9</b> |
| Non Spinnaker           | <b>809.9</b> | <b>650.8</b> | <b>564.6</b> | <b>513.8</b> | <b>481.7</b> | <b>459.6</b> | <b>429.5</b> |

**Crew Weight**

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

**Special Scoring**

|              |              |               |
|--------------|--------------|---------------|
|              | ToD          | ToT           |
| Non Spin GPH | <b>582.3</b> | <b>1.0304</b> |
| Non Spin OSN | <b>567.7</b> | <b>1.0569</b> |

|  |               |               |               |               |               |               |               |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Velocity Prediction in Knots for True Wind Speeds</b> | 6 kt          | 8 kt          | 10 kt         | 12 kt         | 14 kt         | 16 kt         | 20 kt         |
| Wind Velocity  |               |               |               |               |               |               |               |
| Beat Angles  | <b>42.0°</b>  | <b>40.5°</b>  | <b>38.3°</b>  | <b>37.5°</b>  | <b>36.8°</b>  | <b>36.2°</b>  | <b>36.0°</b>  |
| Beat VMG   | <b>4.04</b>   | <b>4.90</b>   | <b>5.48</b>   | <b>5.70</b>   | <b>5.81</b>   | <b>5.92</b>   | <b>6.02</b>   |
| 52°  | <b>6.10</b>   | <b>7.24</b>   | <b>7.76</b>   | <b>7.94</b>   | <b>8.03</b>   | <b>8.08</b>   | <b>8.25</b>   |
| 60°  | <b>6.45</b>   | <b>7.48</b>   | <b>7.94</b>   | <b>8.15</b>   | <b>8.27</b>   | <b>8.34</b>   | <b>8.57</b>   |
| 75°  | <b>6.97</b>   | <b>7.81</b>   | <b>8.12</b>   | <b>8.45</b>   | <b>8.69</b>   | <b>8.84</b>   | <b>9.01</b>   |
| 90°  | <b>7.16</b>   | <b>7.99</b>   | <b>8.45</b>   | <b>8.77</b>   | <b>9.03</b>   | <b>9.30</b>   | <b>9.68</b>   |
| 110°   | <b>6.91</b>   | <b>7.88</b>   | <b>8.43</b>   | <b>9.04</b>   | <b>9.61</b>   | <b>10.06</b>  | <b>10.74</b>  |
| 120°   | <b>6.54</b>   | <b>7.77</b>   | <b>8.40</b>   | <b>9.02</b>   | <b>9.48</b>   | <b>10.15</b>  | <b>11.44</b>  |
| 135°   | <b>5.86</b>   | <b>7.29</b>   | <b>8.04</b>   | <b>8.64</b>   | <b>9.34</b>   | <b>10.15</b>  | <b>11.86</b>  |
| 150°   | <b>4.92</b>   | <b>6.16</b>   | <b>7.25</b>   | <b>7.99</b>   | <b>8.43</b>   | <b>8.96</b>   | <b>10.50</b>  |
| Run VMG  | <b>4.26</b>   | <b>5.33</b>   | <b>6.28</b>   | <b>6.92</b>   | <b>7.30</b>   | <b>7.76</b>   | <b>9.09</b>   |
| Gybe Angles  | <b>143.0°</b> | <b>145.0°</b> | <b>149.0°</b> | <b>152.0°</b> | <b>150.0°</b> | <b>147.3°</b> | <b>143.0°</b> |

**Sails Limitations**

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

**Class Division Length**

CDL = **11.261**

**Storm Sails Areas**

Heavy Weather Jib **36.35**  
Storm Jib (JL=10.67) **13.47**  
Storm Trysail **16.60**

**Owner**

|                     |                                 |
|---------------------|---------------------------------|
| <b>BOAT</b>         |                                 |
| Name <b>ENTROPY</b> | Sail Nr <b>USA 50400</b>        |
| File <b>US6019</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/Checkstays <b>0</b>                          |
| Carbon Mast <b>Yes</b>         | Jib Furler <b>No</b>                                 |
| Fiber Rigging <b>No</b>        | Main Furler <b>No</b>                                |
| Non-Circular Rigging <b>No</b> |  |
| Articulated Bowsprit <b>No</b> |  |
| P <b>16.720</b>                | E <b>5.670</b> MDT1 <b>0.119</b> MW <b>0.192</b>     |
| IG <b>16.190</b>               | J <b>5.030</b> MDL1 <b>0.244</b> GO <b>0.259</b>     |
| ISP <b>18.261</b>              | SFJ <b>-0.003</b> MDT2 <b>0.095</b> BD <b>0.229</b>  |
| BAS <b>1.750</b>               | SPL <b>0.000</b> MDL2 <b>0.107</b> MWT <b>180.99</b> |
| FSD <b>0.037</b>               | TPS <b>6.570</b> TL <b>2.250</b> MCG <b>5.551</b>    |

|  |                  |                       |
|--|------------------|-----------------------|
| <b>INCLINING TEST AND FREEBOARDS</b>     |                  |                       |
| Inclining Test <b>Current Inclining</b>  |                  |                       |
| Flotation date <b>22/06/2015</b>         |                  | SG <b>1.0210</b>      |
| FFM <b>1.350</b>                         | FF <b>1.354</b>  | SFFP <b>0.174</b>     |
| FAM <b>1.099</b>                         | FA <b>1.101</b>  | SAFP <b>11.942</b>    |
| W1 <b>126.4</b>                          | PD1 <b>435.0</b> | WD <b>8.880</b>       |
| W2 <b>126.4</b>                          | PD2 <b>435.0</b> | GSA <b>1.0</b>        |
| W3 <b>126.4</b>                          | PD3 <b>435.0</b> | RSA <b>1.0</b>        |
| W4 <b>126.4</b>                          | PD4 <b>435.0</b> | PLM <b>9000.0</b>     |
| LCF from stem on CL / on sheer           |                  | <b>6.701 / 6.962</b>  |
| Maximum beam station from stem           |                  | <b>7.949</b>          |
| RM Measured                              |                  | <b>203.2kg-m</b>      |
| RM Default                               |                  | <b>201.4kg-m</b>      |
| Limit of positive stability / Stab.Index |                  | <b>122.8° / 122.5</b> |
| Freeboard at mast at 0.000               |                  | <b>1.168</b>          |



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020**  
**IMS Measurement**  
**Certificate**

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

|                              |                                   |  |
|------------------------------|-----------------------------------|--|
| <b>PROPELLER</b>             |                                   |  |
| Installation <b>Strut</b>    | PRD <b>0.412</b>                  |  |
| Type <b>Folding 2 blades</b> | PBW <b>0.116</b>                  |  |
| Twin Screw <b>No</b>         | PIPA <b>0.0035</b>                |  |
| ST1 <b>0.043</b>             | ST3 <b>0.180</b> ST5 <b>0.232</b> |  |
| ST2 <b>0.180</b>             | ST4 <b>0.110</b> EDL <b>1.253</b> |  |

|                               |  |
|-------------------------------|--|
| <b>Certificate</b>            |  |
| Number <b>US6019</b>          |  |
| ORC Ref <b>03410000M8R</b>    |  |
| Issued On <b>08/07/2020</b>   |  |
| VPP Ver. <b>2020 1.02</b>     |  |
| Valid until <b>31/12/2020</b> |  |

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

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

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



**World Leader In Rating Technology**

|                              |       |       |       |       |       |  |
|------------------------------|-------|-------|-------|-------|-------|--|
| <b>SAILS (Maximum Areas)</b> |       |       |       |       |       |  |
| Mainsail                     | MHB   | MUW   | MTW   | MHW   | MQW   | Area Area (r) Formula  |
|                              | 0.17  | 1.32  | 2.28  | 3.70  | 4.75  | 57.26 58.48 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) |
| Symmetric<br>Not Available   |       |       |       |       |       |  |
| Asymmetric on centerline     | SLU   | SLE   | SL    | SHW   | SFL   | Area Formula   |
|                              | 20.90 | 17.05 | 18.98 | 11.23 | 10.64 | 175.71 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) |      |      |      |      |       |       |          |        |           |          |          |
| HHB   | HUW  | HTW  | HHW  | HQW  | HLP   | HLU   | Area Btn | Flying | Meas.Date | Material | Comment  |
|   | 1.43 | 2.69 | 3.89 | 4.97 | 16.41 | 42.91 |          | No     |           |          | ORC 2017 |

|                              |        |                    |                              |                 |
|------------------------------|--------|--------------------|------------------------------|-----------------|
| <b>MEASUREMENT INVENTORY</b> |        |                    |                              |                 |
| Measurer                     | Date   | Comment            | Internal Ballast total = 0.0 |                 |
| Id                           | Item   | Weight             | Distance                     | VCG Description |
| a                            | Anchor | 0.0                | 0.00                         |                 |
| Id                           | Item   | Weight Description |                              |                 |

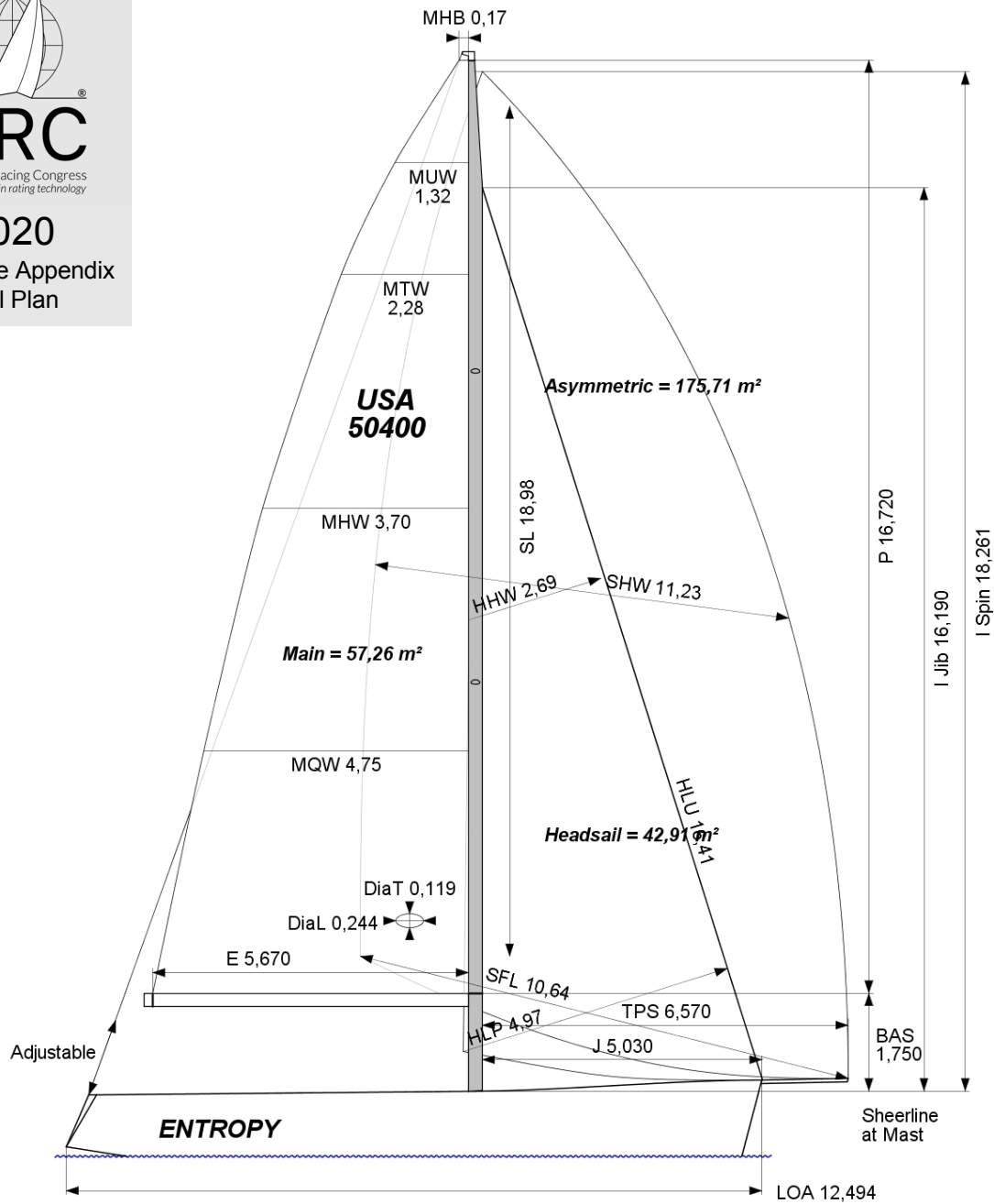
|                              |      |          |           |                 |       |       |        |             |  |
|------------------------------|------|----------|-----------|-----------------|-------|-------|--------|-------------|--|
| <b>MEASUREMENT INVENTORY</b> |      |          |           |                 |       |       |        |             |  |
| Id                           | Item | Tank Use | Tank Type | Capcty          | Dist. | VCG   | Condtn | Description |  |
|                              | Tank |          |           |                 | 6.00  | -0.23 | 34.1   |             |  |
| Id                           | Item | Weight   | Distance  | VCG Description |       |       |        |             |  |



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

| Id      | MHB  | MUW  | MTW  | MHW  | MQW  | Area  | Measurer | Meas.Date | Manufacture | Material | Comment      |
|---------|------|------|------|------|------|-------|----------|-----------|-------------|----------|--------------|
| 1951830 | 0.17 | 1.32 | 2.28 | 3.70 | 4.75 | 57.26 |          |           | ERIC        |          | MN2 IRC 2015 |

**HEADSAILS (1)**

| Id      | HHB | HUW | HTW  | HHW  | HQW  | HLP  | HLU   | Ovrlp | Area  | Btn | Flying | Measurer | Meas.Date | Manufacture | Material | Comment  |
|---------|-----|-----|------|------|------|------|-------|-------|-------|-----|--------|----------|-----------|-------------|----------|----------|
| 1578338 |     |     | 1.43 | 2.69 | 3.89 | 4.97 | 16.41 | 99%   | 42.91 | No  |        |          |           |             |          | ORC 2017 |

**SYMMETRIC SPINNAKERS (0)**

| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-----|-----|----|-----|-----|------|----------|-----------|-------------|----------|---------|
|----|-----|-----|----|-----|-----|------|----------|-----------|-------------|----------|---------|

**ASYMMETRIC SPINNAKERS (2)**

| Id      | SLU   | SLE   | SL    | SHW   | SFL   | Area   | Kind  | Measurer | Meas.Date | Manufacture | Material | Comment       |
|---------|-------|-------|-------|-------|-------|--------|-------|----------|-----------|-------------|----------|---------------|
| 1397665 | 20.90 | 17.05 | 18.98 | 11.23 | 10.64 | 175.71 | asym  |          |           |             |          | A4 ASYMMETRIC |
| CODE 0  | 17.40 | 16.06 | 16.73 | 6.75  | 9.00  | 100.38 | asy75 |          |           | North Sails | Unknown  | Code Zero     |