



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **140/20**
Issued On **05/08/2020**
ORC Ref **03880000NWJ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 788kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

| | ToD | ToT |
|--------------|--------------|---------------|
| Non Spin GPH | 603.1 | 0.9949 |
| Non Spin OSN | 587.1 | 1.0219 |

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** 137.13
Asymmetric: **Yes** 161.26
Flying H/S: **No**
Spin. Pole: **Yes**

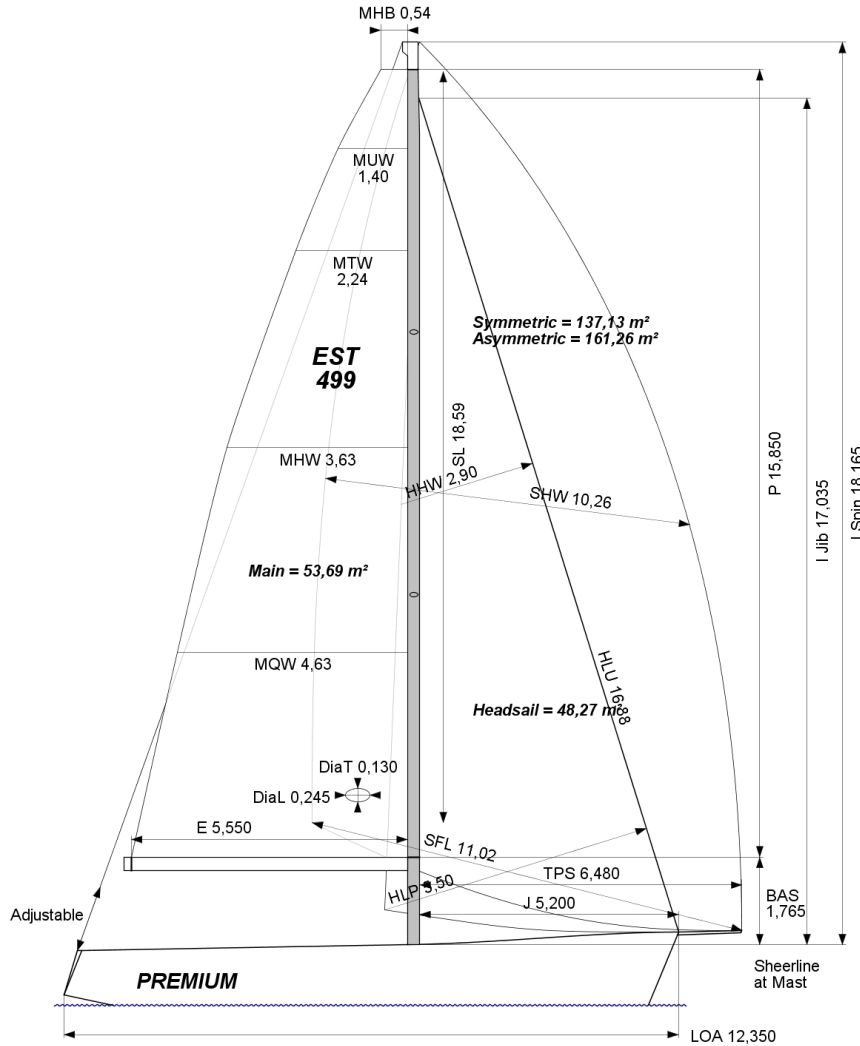
Class Division Length

CDL = 10.588

Stability (Measured)

Limit Positive Stab.: **128.8°**
Stability Index: **132.6**

Owner



| BOAT | | GPH | HULL | | | |
|-----------------------------------------------|--------------------------------|---------------|-----------------------------------|-----------------------------------------|------------------------|---------------|
| Name PREMIUM Sail Nr EST 499 | | 567.2 | Data File EST 499 | LOA 12.350m | | |
| | | | Offset File EST499.off | MB 3.646m | | |
| | | | Displacement 6,996kg | Draft 2.316m | | |
| CLASS | | | IMS Division Cruiser/Racer | Dynamic All. 0.004% | | |
| Class X-41 mod | | | Plan Review | Construction Cored | | |
| Designer JEPPESEN | | | Fiber Rigging No | Aramid Core No | | |
| Builder X YACHTS | | | Crew Arm Ex | Carbon Rudder No | | |
| Series 01/2006 | | | Light Stanchions | | | |
| Age Date 07/2016 | | | IMSL 11.108m | VCGD -0.174m | Sink 23.07kg/mm | |
| Age Allowance 0.455% | | | RL 10.078m | VCGM -0.193m | WS 32.57m² | |
| COMMENTS | | | LSM0 10.990m | Displacement/Length ratio 5.2706 | | |
| | | | Water Ballast 0 | Trim Tab No | | |
| | | | BLR Index 0.0000 | | | |
| PROPELLER | | | CENTERBOARD | | | |
| Installation Strut | PRD 0.430 | | | | | |
| Type Folding 2 blades | PBW 0.125 | | | | | |
| | PIPA 0.0032 | N/A | | | | |
| SCORING OPTIONS | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 552.5 | | | 619.0 | | |
| Time on Time | 1.0860 | | | 1.0905 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 644.5 | 503.9 | 450.9 | 834.4 | 620.9 | 544.0 |
| Time on Time | 1.0474 | 1.3395 | 1.4971 | 0.8090 | 1.0872 | 1.2409 |

2020

ORC Club Certificate Appendix

| BOAT | | | |
|-------------|----------------|--------------------|-------------------|
| Name | PREMIUM | Certificate Number | 140/20 |
| Sail Nr | EST 499 | Issued On | 05/08/2020 |

| TIME ALLOWANCES | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 954.7 | 782.6 | 696.0 | 665.2 | 652.1 | 641.8 | 631.6 |
| 52° | 623.3 | 520.9 | 478.7 | 465.7 | 460.2 | 457.4 | 449.3 |
| 60° | 587.6 | 499.7 | 466.1 | 453.0 | 447.2 | 444.0 | 435.6 |
| 75° | 560.5 | 485.9 | 456.8 | 439.5 | 427.8 | 421.3 | 415.7 |
| 90° | 565.2 | 482.7 | 456.0 | 436.1 | 417.9 | 402.7 | 386.3 |
| 110° | 564.4 | 474.3 | 440.9 | 420.4 | 406.7 | 393.1 | 370.1 |
| 120° | 577.8 | 480.9 | 444.3 | 416.3 | 391.7 | 376.1 | 350.0 |
| 135° | 649.0 | 519.4 | 463.3 | 434.6 | 406.6 | 379.3 | 322.7 |
| 150° | 771.1 | 614.6 | 518.1 | 467.7 | 442.0 | 416.8 | 365.2 |
| Run VMG | 890.4 | 709.7 | 598.2 | 535.6 | 490.8 | 456.9 | 408.8 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 922.5 | 746.1 | 647.1 | 600.4 | 571.5 | 549.3 | 520.2 |
| Circular Random | 776.8 | 628.8 | 550.5 | 505.7 | 478.0 | 459.0 | 432.3 |
| Coastal / Long Distance | 919.3 | 700.8 | 585.1 | 524.1 | 489.7 | 461.0 | 414.2 |
| Non Spinnaker | 841.4 | 674.5 | 584.4 | 531.6 | 498.8 | 476.9 | 448.2 |

| 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 | 43.1° | 42.0° | 40.5° | 39.0° | 39.0° | 38.4° | 38.6° |
| Beat VMG | 3.77 | 4.60 | 5.17 | 5.41 | 5.52 | 5.61 | 5.70 |
| 52° | 5.78 | 6.91 | 7.52 | 7.73 | 7.82 | 7.87 | 8.01 |
| 60° | 6.13 | 7.20 | 7.72 | 7.95 | 8.05 | 8.11 | 8.27 |
| 75° | 6.42 | 7.41 | 7.88 | 8.19 | 8.42 | 8.54 | 8.66 |
| 90° | 6.37 | 7.46 | 7.89 | 8.25 | 8.61 | 8.94 | 9.32 |
| 110° | 6.38 | 7.59 | 8.17 | 8.56 | 8.85 | 9.16 | 9.73 |
| 120° | 6.23 | 7.49 | 8.10 | 8.65 | 9.19 | 9.57 | 10.29 |
| 135° | 5.55 | 6.93 | 7.77 | 8.28 | 8.85 | 9.49 | 11.16 |
| 150° | 4.67 | 5.86 | 6.95 | 7.70 | 8.15 | 8.64 | 9.86 |
| Run VMG | 4.04 | 5.07 | 6.02 | 6.72 | 7.33 | 7.88 | 8.81 |
| Gybe Angles | 143.0° | 146.0° | 148.0° | 156.0° | 170.0° | 180.0° | 180.0° |