



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST465**
Issued On **4/24/2018**
ORC Ref **EST00000036**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight

| | |
|----------|--------------|
| Default | 586kg |
| Maximum | 715kg |
| Minimum* | 536kg |

*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

| | ToD | ToT |
|--------------|--------------|---------------|
| Double H.GPH | 646.1 | 0.9286 |
| Double H.OSN | 628.5 | 0.9546 |
| Non Spin GPH | 678.0 | 0.8850 |
| Non Spin OSN | 654.8 | 0.9163 |

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

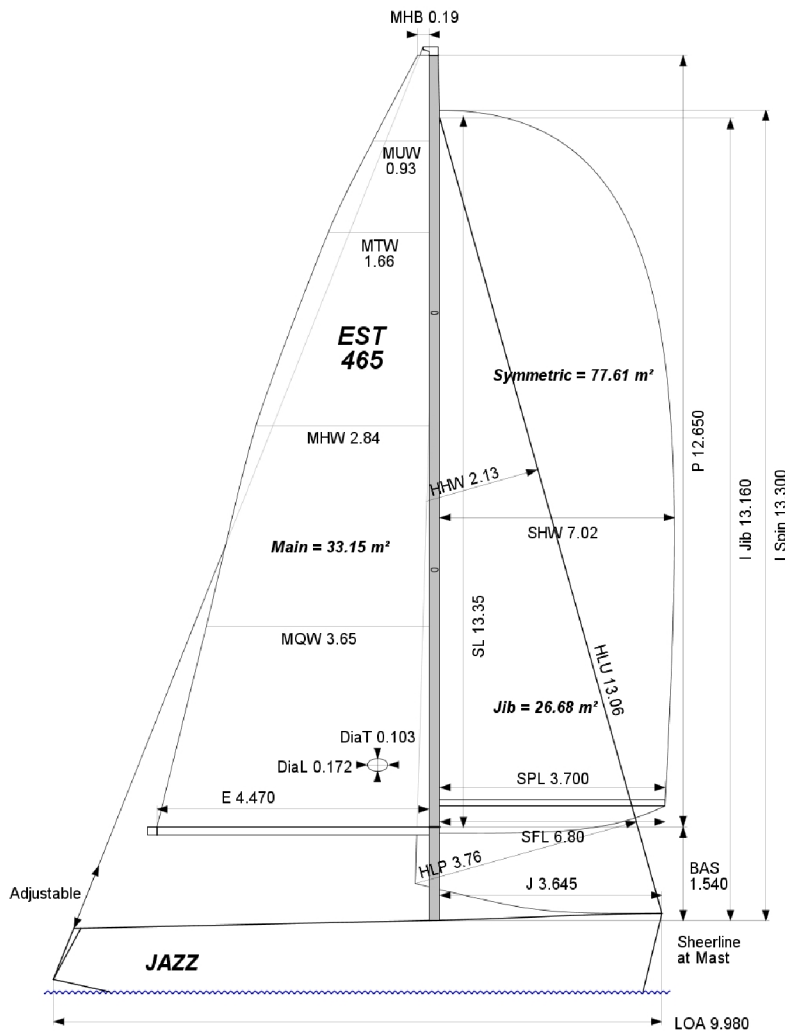
Symmetric: **Yes** 77.61
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.651

Stability (Measured)

Limit Positive Stab.: **131.0°**
Stability Index: **130.2**



| BOAT | | GPH | | HULL | | |
|------------------------|--------------------------------|---------------|---------------|---------------------------|--|---------------|
| Name | JAZZ | | 643.0 | Data File | Est0465 LOA 9.980m | |
| Sail Nr | EST 465 | | | Offset File | F235.OFF MB 3.372m | |
| | | | | Displacement | 4,518kg Draft 1.994m | |
| CLASS | | | | IMS Division | Cruiser/Racer Dynamic All. 0.204% | |
| Class | First 34.7 | | | Fwd Accom. | No Construction Cored | |
| Designer | Farr | | | Fiber Rigging | No Aramid Core No | |
| Builder | Beneteau | | | Crew Arm Ex | No Carbon Rudder No | |
| Series | 10/2005 | | | Light Stanchions | | |
| Age Date | 05/2007 | | | IMSL | 9.076m VCGD -0.182m Sink 16.32kg/mm | |
| Age Allowance | 0.422% | | | RL | 8.224m VCGM -0.162m WS 21.96m² | |
| COMMENTS | | | | LSM0 | 8.929m Displacement/Length ratio 6.3466 | |
| | | | | Water Ballast | 0 Trim Tab No | |
| | | | | BLR Index | 0.0000 | |
| PROPELLER | | | | CENTERBOARD | | |
| Installation | Strut | PRD | 0.410 | N/A | | |
| Type | Folding 2 blades | PBW | 0.118 | | | |
| | | PIPA | 0.0027 | | | |
| SCORING OPTIONS | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 623.0 | | | 693.4 | | |
| Time on Time | 0.9630 | | | 0.9734 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 742.3 | 567.9 | 504.5 | 956.1 | 696.8 | 602.9 |
| Time on Time | 0.9093 | 1.1885 | 1.3379 | 0.7060 | 0.9687 | 1.1195 |

| | |
|---------------------|---------------------------------|
| BOAT | |
| Name JAZZ | Sail Nr EST 465 |
| File Est0465 | Data in meters/kilograms |

| | | | |
|--|------------------|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | |
| Inclining Test Current Inclining | | | |
| Flotation date 03/07/2017 | | SG 1.0000 | |
| FFM 1.293 | FF 1.302 | SFFP 0.172 | |
| FAM 1.045 | FA 1.051 | SAFP 9.530 | |
| W1 55.0 | PD1 183.0 | WD 10.040 | |
| W2 55.0 | PD2 181.0 | GSA 12.6 | |
| W3 55.0 | PD3 183.0 | RSA 4298.7 | |
| W4 55.0 | PD4 182.0 | PLM 2005.0 | |
| LCF from stem on CL / on sheer | | 5.370 / 5.604 | |
| Maximum beam station from stem | | 6.642 | |
| RM Measured | | 106.0kg·m | |
| RM Default | | 97.8kg·m | |
| Limit of positive stability / Stab.Index | | 131.0° / 130.2 | |
| Freeboard at mast at 3.645 | | 1.169 | |



2018
Measurements
Datasheet

| | | | |
|--------------------------------|----------------------------|-------------------|-------------------|
| RIG | | | |
| Forestay Tension Aft | Spreaders 2 | | |
| Inner Stay None Fitted | Runners 0 | | |
| Carbon Mast Yes | Jumper Struts None | | |
| Taper Hollows No | Jib Furler No | | |
| Fiber Rigging No | Main Furler No | | |
| Lenticular Rigging No | Without Backstay No | | |
| Articulated Bowsprit No | | | |
| P 12.650 | E 4.470 | MDT1 0.103 | MW 0.172 |
| IG 13.160 | J 3.645 | MDL1 0.172 | GO 0.197 |
| ISP 13.300 | SFJ 0.000 | MDT2 0.103 | BD 0.130 |
| BAS 1.540 | SPL 3.700 | MDL2 0.140 | MWT 116.00 |
| FSP 0.066 | TPS | TL 0.850 | MCG 4.440 |

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| Certificate | |
| Number EST465 | |
| ORC Ref EST00000036 | |
| Issued On 4/24/2018 | |
| VPP Ver. 2018 1.00 | |
| Valid until 12/31/2018 | |

| | |
|-----------------------------|--|
| MIZZEN RIG AND SAILS | |
| N/A | |

| | | | |
|------------------------------|--------------------|------------------|--|
| PROPELLER | | | |
| Installation Strut | PRD 0.410 | | |
| Type Folding 2 blades | PBW 0.118 | | |
| Twin Screw No | PIPA 0.0027 | | |
| ST1 0.035 | ST3 | ST5 0.118 | |
| ST2 | ST4 0.100 | EDL 1.800 | |

| | |
|-----------------|--|
| COMMENTS | |
| | |

| | |
|------------------------|--|
| MOVABLE BALLAST | |
| N/A | |

| | |
|--------------------|--|
| CENTERBOARD | |
| N/A | |

| SAILS INVENTORY | | | | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|------|------|-------|----------|------------|-------------|-------------|--------------|----------|------------|-------------|----------|-----------------|
| MAINSAIL (1) | | | | | | | | | | | | | | | | |
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 2a | 0.190 | 0.93 | 1.66 | 2.84 | 3.65 | 33.15 | EST 7 | 08/04/2018 | | Carbon | | | | | | |
| HEADSAILS (4) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
| 8a | 0.12 | 0.64 | 1.19 | 2.13 | 2.99 | 3.76 | 13.06 | 103% | 26.68 | Y | | EST 7 | 08/04/2018 | North | Unknow | 3DL_Light_2017 |
| 5 | 0.12 | 0.56 | 1.03 | 1.94 | 2.88 | 3.79 | 13.06 | 104% | 25.39 | Y | | EST 1 | 06/06/2012 | North | Unknow | Heavy 2012 |
| 7a | 0.11 | 0.59 | 1.09 | 2.03 | 2.91 | 3.72 | 12.83 | 102% | 25.31 | Y | | EST 7 | 08/04/2018 | North | Carbon | 3Di_Medium_2015 |
| 9 | 0.08 | 0.49 | 0.91 | 1.80 | 2.70 | 3.61 | 12.57 | 99% | 22.78 | | | Sisil | 25/01/2018 | North | Unknow | 3Di_Heavy_2018 |
| SYMMETRIC SPINNAKERS (4) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| S1,5 | 13.35 | 13.35 | 13.35 | 7.02 | 6.80 | 77.61 | Hemamali | 07/04/2017 | North | Unknown | Hine Cognac | | | | | |
| S1 | 13.10 | 13.10 | 13.10 | 6.63 | 6.28 | 71.61 | Hemamali | 09/03/2015 | North | Unknown | | | | | | |
| S2 | 12.94 | 12.94 | 12.94 | 6.58 | 6.15 | 70.03 | EST 2 | 26/04/2017 | North | Unknown | Jazz Pesulad | | | | | |
| S3 | 13.00 | 13.00 | 13.00 | 6.43 | 6.33 | 69.44 | EST 2 | 02/07/2010 | North | Unknown | Blue | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |

| MEASUREMENT INVENTORY | | | | |
|-----------------------------------|--------|--------|-------------|-----------------|
| Measurer A. Tetsmann EST 1 | | | | |
| Date 03/07/2017 | | | | |
| Comment | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| 1 | Engine | Yanmar | 3YM20 | |
| Id | Item | Weight | Description | |

| MEASUREMENT INVENTORY | | | | | | | | |
|------------------------------|---------|----------|-----------|--------------------------------|-------|-----|--------|-----------------------|
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn | Description |
| 1 | Tank | Water | PVC | 100.0 | 4.00 | | | 0-0 Water tank, stb. |
| 2 | Tank | Fuel | PVC | 60.0 | 7.55 | | | 5-0 Fuel tank, center |
| Id | Item | Weight | Distance | VCG Description | | | | |
| 1 | Battery | | 3.70 | Battery 70Ah, ports. | | | | |
| 2 | Battery | | 3.95 | Battery 70Ah, ports. | | | | |
| 1 | Misc | | 6.90 | Boiler 25BX Quickmatic, ports. | | | | |



World Leader in Rating Technology

2018

ORC Club Certificate Appendix

| BOAT | | | |
|-------------|----------------|--------------------|------------------|
| Name | JAZZ | Certificate Number | EST465 |
| Sail Nr | EST 465 | Issued On | 4/24/2018 |

| TIME ALLOWANCES | | | | | | | |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1100.3 | 910.8 | 798.5 | 736.3 | 714.5 | 706.9 | 702.7 |
| 52° | 724.5 | 607.1 | 544.6 | 518.9 | 507.3 | 503.1 | 501.3 |
| 60° | 687.3 | 578.5 | 529.2 | 507.2 | 494.6 | 488.5 | 485.5 |
| 75° | 659.3 | 559.2 | 518.5 | 497.2 | 480.9 | 467.8 | 455.6 |
| 90° | 662.4 | 549.1 | 506.5 | 486.0 | 476.1 | 460.2 | 432.2 |
| 110° | 654.1 | 542.3 | 500.7 | 474.1 | 449.6 | 431.3 | 410.8 |
| 120° | 672.9 | 554.4 | 506.8 | 479.5 | 452.7 | 428.2 | 390.2 |
| 135° | 741.5 | 602.7 | 529.3 | 497.1 | 472.1 | 446.6 | 399.0 |
| 150° | 875.1 | 695.5 | 588.1 | 526.7 | 497.3 | 473.9 | 428.0 |
| Run VMG | 1010.4 | 803.1 | 678.2 | 597.3 | 541.7 | 507.2 | 461.4 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1055.3 | 857.0 | 738.4 | 666.8 | 628.1 | 607.0 | 582.0 |
| Circular Random | 890.0 | 716.7 | 623.5 | 569.3 | 536.1 | 514.5 | 487.2 |
| Coastal / Long Distance | 1050.9 | 804.4 | 666.4 | 586.1 | 546.2 | 515.5 | 464.6 |
| Non Spinnaker | 952.1 | 760.8 | 656.5 | 595.1 | 557.3 | 533.0 | 503.7 |

| 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 | 42.6° | 41.2° | 41.2° | 39.2° | 38.8° | 38.7° | 38.7° |
| Beat VMG | 3.27 | 3.95 | 4.51 | 4.89 | 5.04 | 5.09 | 5.12 |
| 52° | 4.97 | 5.93 | 6.61 | 6.94 | 7.10 | 7.16 | 7.18 |
| 60° | 5.24 | 6.22 | 6.80 | 7.10 | 7.28 | 7.37 | 7.42 |
| 75° | 5.46 | 6.44 | 6.94 | 7.24 | 7.49 | 7.69 | 7.90 |
| 90° | 5.43 | 6.56 | 7.11 | 7.41 | 7.56 | 7.82 | 8.33 |
| 110° | 5.50 | 6.64 | 7.19 | 7.59 | 8.01 | 8.35 | 8.76 |
| 120° | 5.35 | 6.49 | 7.10 | 7.51 | 7.95 | 8.41 | 9.23 |
| 135° | 4.85 | 5.97 | 6.80 | 7.24 | 7.63 | 8.06 | 9.02 |
| 150° | 4.11 | 5.18 | 6.12 | 6.84 | 7.24 | 7.60 | 8.41 |
| Run VMG | 3.56 | 4.48 | 5.31 | 6.03 | 6.65 | 7.10 | 7.80 |
| Gybe Angles | 145.7° | 150.0° | 151.1° | 158.2° | 180.0° | 180.0° | 180.0° |