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| BOAT |
| Name BANA BIOLETTA 3 Sail Nr GRE-1212 |

| |
|--------------|
| GPH |
| 540.1 |

| | | | |
|-------------------|-------------|---------------------------|---------------------|
| HULL | | | |
| Length Overall | 12.500m | Maximum Beam | 3.950m |
| Displacement | 6,001kg | Draft | 2.600m |
| IMS Reg. Division | Performance | Dynamic Allowance | 0.000% |
| Fwd Accommodation | Yes | Hull Construction | Light |
| Carbon Rudder | Yes | Crew Arm Extension | |
| IMSL | 11.090m | VCGD | -0.275m |
| RL | 11.290m | VCGM | -0.228m |
| LSM0 | 10.742m | Displacement/Length ratio | 4.8414 |
| | | Sink | 22.09kg/mm |
| | | WS | 29.40m ² |



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| GENERAL |
| Class ILC 40 |
| Designer FARR |
| Builder COOKSON |
| Series 03/1993 |
| Age 03/1993 |
| Age Allowance 0.487% |
| Offset File OZ96MOD.OFF - 11/06/2010 13:41:28 |
| Measurement by - 05/07/2006 |

Rating Office

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|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| SCORING OPTIONS | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 527.3 | | | 589.1 | | |
| Time on Time | 1.1379 | | | 1.1458 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 602.6 | 484.0 | 433.2 | 775.2 | 592.6 | 521.6 |
| Time on Time | 1.1202 | 1.3947 | 1.5581 | 0.8707 | 1.1390 | 1.2941 |



| | | | | | | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| TIME ALLOWANCES | | | | | | | |
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 845.8 | 703.7 | 650.7 | 628.4 | 616.4 | 610.1 | 600.6 |
| 52° | 559.4 | 482.6 | 461.6 | 453.1 | 448.2 | 445.2 | 437.3 |
| 60° | 530.8 | 469.2 | 449.8 | 440.7 | 434.7 | 430.7 | 421.4 |
| 75° | 510.7 | 460.3 | 437.9 | 422.0 | 412.4 | 406.0 | 399.2 |
| 90° | 516.0 | 461.8 | 436.7 | 414.8 | 397.0 | 384.6 | 371.9 |
| 110° | 546.4 | 464.4 | 432.0 | 409.9 | 393.7 | 380.0 | 350.9 |
| 120° | 563.1 | 471.2 | 435.6 | 405.3 | 380.8 | 364.6 | 336.7 |
| 135° | 626.2 | 506.8 | 455.5 | 425.3 | 395.4 | 366.3 | 308.4 |
| 150° | 744.8 | 598.9 | 507.2 | 457.9 | 429.6 | 401.7 | 347.2 |
| Run VMG | 860.0 | 691.5 | 585.6 | 520.8 | 478.6 | 446.4 | 394.7 |

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| Certificate |
| Number 000669 |
| ORC Ref GRE01015513 |
| Issued On 03/05/2019 |
| VPP Ver. 2019 1.01 |
| Valid until 28/02/2020 |

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|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Selected Courses | | | | | | | |
| Windward / Leeward | 852.9 | 697.6 | 618.2 | 574.6 | 547.5 | 528.3 | 497.6 |
| Circular Random | 729.3 | 595.4 | 525.1 | 484.7 | 459.2 | 441.0 | 414.0 |
| Coastal / Long Distance | 853.6 | 658.1 | 560.8 | 503.7 | 470.7 | 443.7 | 398.2 |
| Non Spinnaker | 778.7 | 630.5 | 551.2 | 504.8 | 475.5 | 455.1 | 426.2 |

| | |
|---------------------------------|--------------|
| Crew Weight | |
| Default | 762kg |
| Maximum | 795kg |
| Minimum* | 596kg |
| *when applied by the NoR and SI | |
| Non Manual Pwr | No |

| | | | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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 | 41.9° | 40.3° | 37.9° | 37.2° | 36.7° | 36.3° | 36.1° |
| Beat VMG | 4.26 | 5.12 | 5.53 | 5.73 | 5.84 | 5.90 | 5.99 |
| 52° | 6.44 | 7.46 | 7.80 | 7.95 | 8.03 | 8.09 | 8.23 |
| 60° | 6.78 | 7.67 | 8.00 | 8.17 | 8.28 | 8.36 | 8.54 |
| 75° | 7.05 | 7.82 | 8.22 | 8.53 | 8.73 | 8.87 | 9.02 |
| 90° | 6.98 | 7.80 | 8.24 | 8.68 | 9.07 | 9.36 | 9.68 |
| 110° | 6.59 | 7.75 | 8.33 | 8.78 | 9.14 | 9.47 | 10.26 |
| 120° | 6.39 | 7.64 | 8.26 | 8.88 | 9.45 | 9.87 | 10.69 |
| 135° | 5.75 | 7.10 | 7.90 | 8.46 | 9.11 | 9.83 | 11.67 |
| 150° | 4.83 | 6.01 | 7.10 | 7.86 | 8.38 | 8.96 | 10.37 |
| Run VMG | 4.19 | 5.21 | 6.15 | 6.91 | 7.52 | 8.06 | 9.12 |
| Gybe Angles | 142.5° | 141.5° | 149.0° | 156.2° | 171.7° | 180.0° | 180.0° |

| | |
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| Special Scoring | |
| ToD | ToT |
| Non Spin GPH 567.7 | 1.0569 |
| Non Spin OSN 555.3 | 1.0806 |

| | |
|--------------------------|------------|
| Sails Limitations | |
| Headsails | Spinnakers |
| 6 | 4 |

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|------------------------------|
| Class Division Length |
| CDL = 11.191 |

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|--------------------------|--------------|
| Storm Sails Areas | |
| Heavy Weather Jib | 33.33 |
| Storm Jib (JL=10.22) | 12.35 |
| Storm Trysail | 17.99 |

Owner

| | |
|-----------------------------|---------------------------------|
| BOAT | |
| Name BANA BIOLETTA 3 | Sail Nr GRE-1212 |
| File GR1212 | Data in meters/kilograms |

| | | | | | |
|--|--------------|-----|--------------|-----------------------|---------------|
| INCLINING TEST AND FREEBOARDS | | | | | |
| Inclining Test Current Inclining | | | | | |
| Flotation date 05/02/2014 | | | | SG 1.0300 | |
| FFM | 1.394 | FF | 1.393 | SFFP | 0.028 |
| FAM | 1.069 | FA | 1.069 | SAFP | 11.965 |
| W1 | 113.2 | PD1 | 579.7 | WD | 12.470 |
| W2 | 113.2 | PD2 | 580.1 | GSA | 1.0 |
| W3 | 113.2 | PD3 | 581.4 | RSA | 1.0 |
| W4 | 113.2 | PD4 | 583.3 | PLM | 9000.0 |
| LCF from stem on CL / on sheer | | | | 6.949 / 7.208 | |
| Maximum beam station from stem | | | | 7.587 | |
| RM Measured | | | | 191.3kg-m | |
| RM Default | | | | 185.4kg-m | |
| Limit of positive stability / Stab.Index | | | | 126.3° / 124.6 | |
| Freeboard at mast at 4.560 | | | | 1.183 | |



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|--------------------------------|----------------------------|-------------------|-------------------|--|--|
| RIG | | | | | |
| Forestay Tension Aft | Spreaders 3 | | | | |
| Inner Stay None Fitted | Runners 2 | | | | |
| Carbon Mast No | Jumper Struts Yes | | | | |
| Taper Hollows No | Jib Furler No | | | | |
| Fiber Rigging No | Main Furler No | | | | |
| Lenticular Rigging No | Without Backstay No | | | | |
| Articulated Bowsprit No | | | | | |
| P 16.990 | E 6.050 | MDT1 0.100 | MW 0.095 | | |
| IG 15.625 | J 4.560 | MDL1 0.200 | GO 0.120 | | |
| ISP 16.970 | SFJ | MDT2 0.065 | BD 0.250 | | |
| BAS 1.915 | SPL 5.080 | MDL2 0.095 | MWT 238.70 | | |
| FSP 0.064 | TPS | TL 3.275 | MCG 5.370 | | |

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| Valid until | 28/02/2020 |

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

| | | | |
|------------------|-------------------------|------|---------------|
| PROPELLER | | | |
| Installation | Strut | PRD | 0.435 |
| Type | Folding 2 blades | PBW | 0.101 |
| Twin Screw | No | PIPA | 0.0036 |
| ST1 | 0.048 | ST3 | 0.180 |
| ST2 | 0.170 | ST4 | 0.110 |
| | | ST5 | 0.255 |
| | | EDL | 1.210 |

| | |
|---|--|
| COMMENTS | |
| ex "SIDHARTA", ex "NO MERCY", ex "ONLY THE BRAVE" | |

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

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



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|------------------------------|------------|------------|------------|------------|------------|-------------|-----------------|--|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0.250 | 1.35 | 2.35 | 4.04 | 5.20 | 62.71 | 64.20 | P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | | | | |
| | 17.35 | 17.35 | 17.35 | 9.65 | 9.20 | 138.22 | | SL · (SFL + 4·SHW) / 6 | |
| Asymmetric | | | | | | | | | |
| Not Available | | | | | | | | | |

| | | | | | | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| HEADSAILS | | | | | | | | | | | | |
| 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 | Fly | Meas.Date | Material | Comment |
| 0.10 | 0.77 | 1.49 | 3.00 | 4.59 | 6.37 | 15.69 | 48.43 | | | 02/05/2019 | Carbon | |
| 0.12 | 0.58 | 1.08 | 2.14 | 3.25 | 4.36 | 15.85 | 34.49 | | | 14/07/2014 | Carbon | |

| | | | | |
|------------------------------|-------------------|---------------------------|-----------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer | GRE-21 | | | |
| Date | 05/02/2014 | | | |
| Comment | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| 5 | Engine | VOLVO PENTA | | |
| Id | Item | Weight Description | | |

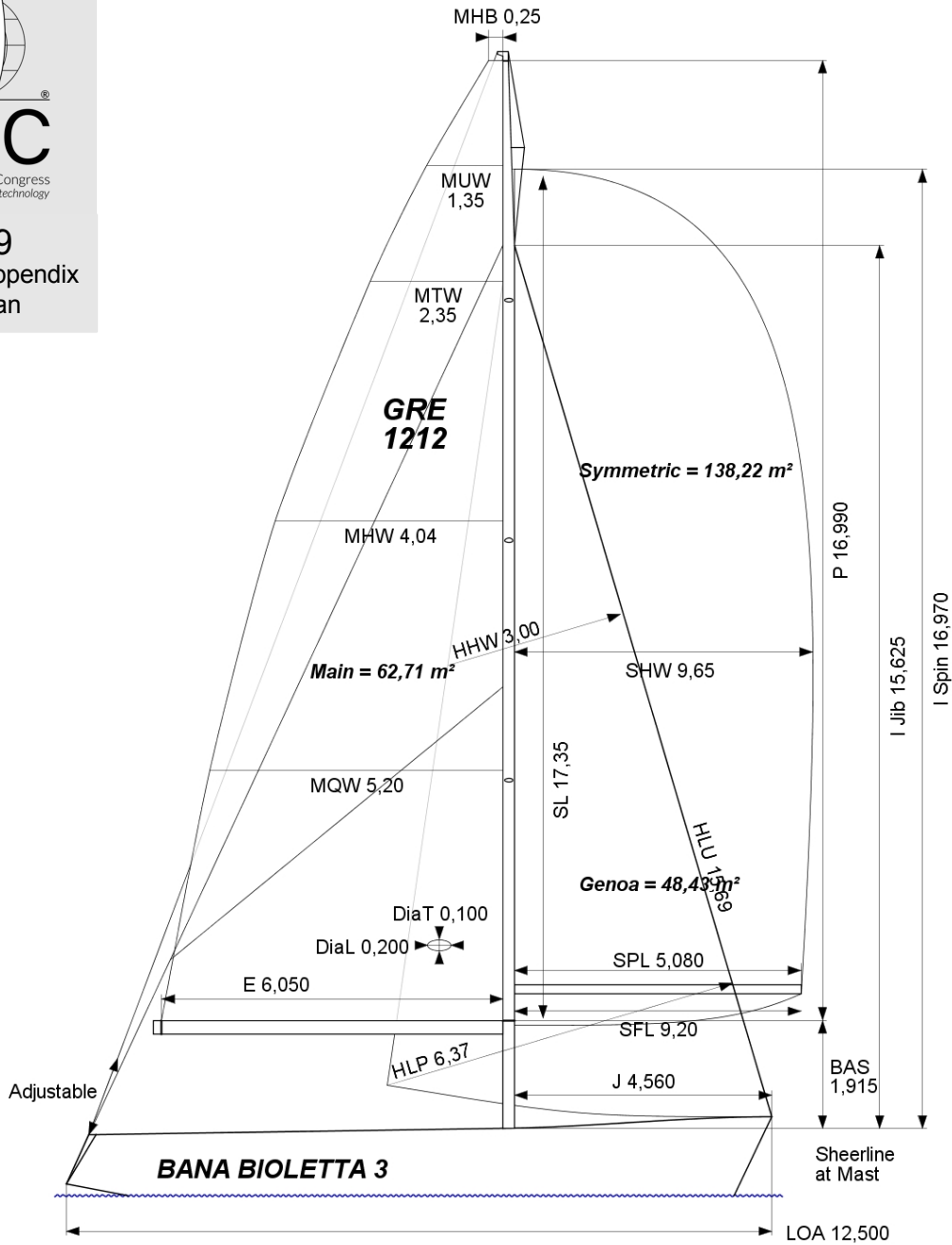
| | | | | | | | |
|------------------------------|-------------|-----------------|------------------|------------------------|--------------|------------|---------------------------|
| MEASUREMENT INVENTORY | | | | | | | |
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn Description |
| 6a | Tank | FUEL | INOX | 40.0 | 7.20 | | 15-0 |
| 6b | Tank | WATER FR. | BLADDER | 60.0 | 7.60 | | 0-0 |
| 6c | Tank | WATER FR. | BLADDER | 60.0 | 7.60 | | 0-0 |
| Id | Item | Weight | Distance | VCG Description | | | |
| 1a | Ballast | 410.0 | 7.70 | 15 LEAD BARS STRBD | | | |
| 1b | Ballast | 410.0 | 7.70 | 15 LEAD BARS PORT | | | |
| 1c | Ballast | 50.0 | 11.20 | 2 LEAD BARS CENTER | | | |
| 3a | Battery | 25.0 | 8.20 | | | | |
| 3b | Battery | 35.0 | 6.70 | | | | |
| 3c | Battery | 35.0 | 6.70 | | | | |



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|------|------|------|------|------|-------|----------|------------|-------------|----------|---------|
| M2 | 0,25 | 1,35 | 2,35 | 4,04 | 5,20 | 62,72 | | 02/05/2019 | QUANTUM | Carbon | |

HEADSAILS (2)

| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
|------|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|------------|-------------|----------|---------|
| HEAV | 0,10 | 0,77 | 1,49 | 3,00 | 4,59 | 6,37 | 15,69 | 140% | 48,43 | | | | 02/05/2019 | QUANTUM | Carbon | |
| No3 | 0,12 | 0,58 | 1,08 | 2,14 | 3,25 | 4,36 | 15,85 | 96% | 34,49 | | | | 14/07/2014 | QUANTUM | Carbon | |

SYMMETRIC SPINNAKERS (4)

| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|--------|----------|------------|-------------|----------|---------|
| S2 | 17,35 | 17,35 | 17,35 | 9,65 | 9,20 | 138,23 | | 02/05/2019 | ARROW | Nylon | 0,5 RED |
| S1 | 17,33 | 17,33 | 17,33 | 9,65 | 9,20 | 138,07 | | 20/06/2016 | NORTH | Nylon | 0,6 |
| S4 | 17,07 | 17,10 | 17,09 | 9,70 | 9,50 | 137,54 | | 20/06/2016 | NORTH | Nylon | 0,75 |
| S3 | 16,50 | 16,50 | 16,50 | 9,28 | 9,50 | 128,21 | | 11/08/2014 | NORTH | Nylon | 0,85 |

ASYMMETRIC SPINNAKERS (0)

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