



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate
Number **00117**
Issued On **03/09/2020**
ORC Ref **03420000PNO**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

| | |
|----------|-------|
| Default | 457kg |
| Maximum | 300kg |
| Minimum* | 215kg |

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

Special Scoring

| | |
|---------------------------|---------------|
| ToD | ToT |
| Non Spin GPH 779.6 | 0.7696 |
| Non Spin OSN 754.9 | 0.7948 |

Sails Limitations

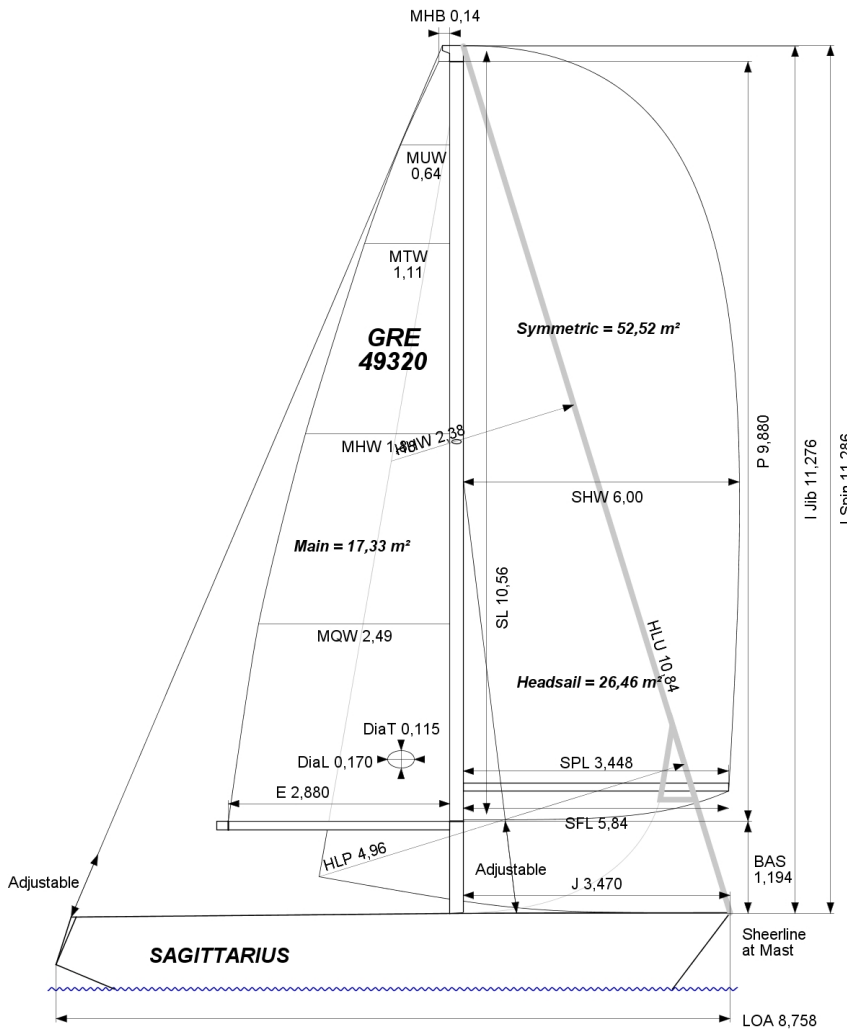
Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes** **52.52**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 6.506

Stability (Measured)
Limit Positive Stab.: **119.4°**
Stability Index: **122.2**

Owner



| | | | | | | | |
|---|--------------------------------|----------------------------|---|---------------------------|---------------|---------------|--|
| BOAT Name SAGITTARIUS Sail Nr GRE-49320 | | GPH 748.2 | HULL Data File GR49320 LOA 8.758m Offset File E201.OFF MB 2.832m Displacement 3,858kg Draft 1.725m | | | | |
| CLASS Class FIRST 30 Designer ANDRE MAURIC Builder BENETEAU Series 01/1973 Age Date 01/1979 Age Allowance 0.487% | | | IMS Division Cruiser/Racer Dynamic All. 0.581% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No | | | | |
| COMMENTS IRON KEEL ex "APILIOTIS", ex "BIG FAMILY", ex "ATLANTIA" | | | IMSL 7.389m VCGD 0.030m Sink 11.48kg/mm RL 5.629m VCGM 0.040m WS 17.49m² LSM0 7.504m Displacement/Length ratio 9.1303 Water Ballast 0 Trim Tab No BLR Index 0.0000 | | | | |
| PROPELLER Installation Shaft exposed PRD 0.381 Type Folding 2 blades PBW 0.099 PIPA 0.0043 | | | CENTERBOARD N/A | | | | |
| SCORING OPTIONS | | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | | |
| Time on Distance | 727.1 | | | 812.0 | | | |
| Time on Time | 0.8252 | | | 0.8313 | | | |
| Triple Number | Low | Medium | High | Low | Medium | High | |
| Time on Distance | 852.7 | 663.0 | 601.6 | 1089.4 | 816.7 | 720.6 | |
| Time on Time | 0.7916 | 1.0181 | 1.1221 | 0.6196 | 0.8265 | 0.9367 | |

| | |
|-------------------------|---------------------------------|
| BOAT | |
| Name SAGITTARIUS | Sail Nr GRE-49320 |
| File GR49320 | Data in meters/kilograms |

| | | | |
|--|------------------|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | |
| Inclining Test Current Inclining | | | |
| Flotation date 03/05/2005 | | SG 1.0270 | |
| FFM 0.931 | FF 0.982 | SFFP 0.490 | |
| FAM 0.971 | FA 0.939 | SAFP 8.493 | |
| W1 35.2 | PD1 356.0 | WD 9.540 | |
| W2 35.2 | PD2 356.0 | GSA 28.3 | |
| W3 35.2 | PD3 356.0 | RSA 5674.5 | |
| W4 35.2 | PD4 356.0 | PLM 2370.0 | |
| LCF from stem on CL / on sheer | | 4.691 / 4.844 | |
| Maximum beam station from stem | | 4.882 | |
| RM Measured | | 38.9kg-m | |
| RM Default | | 42.2kg-m | |
| Limit of positive stability / Stab.Index | | 119.4° / 122.2 | |
| Freeboard at mast at 3.470 | | 0.988 | |



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2020
Measurements
Datasheet


| | | | |
|--------------------------------|-----------------------------|-------------------|-----------------|
| RIG | | | |
| Forestay Tension Aft | Spreaders 1 | | |
| Inner Stay Adjustable | Runners/Checkstays 0 | | |
| Carbon Mast No | Jib Furler Yes | | |
| Fiber Rigging No | Main Furler No | | |
| Non-Circular Rigging No | | | |
| Articulated Bowsprit No | | | |
| P 9.880 | E 2.880 | MDT1 0.115 | MW 0.170 |
| IG 11.276 | J 3.470 | MDL1 0.170 | GO 0.200 |
| ISP 11.286 | SFJ 0.000 | MDT2 0.115 | BD 0.110 |
| BAS 1.194 | SPL 3.448 | MDL2 0.170 | MWT |
| FSD 0.027 | TPS | TL 0.000 | MCG |

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

| | | | |
|-----------------------------------|--------------------|------------------|------------------|
| PROPELLER | | | |
| Installation Shaft exposed | PRD 0.381 | | |
| Type Folding 2 blades | PBW 0.099 | | |
| Twin Screw No | PIPA 0.0043 | | |
| PSA 29.250 | PHL 0.115 | ST3 0.087 | ESL 0.722 |
| PSD 0.022 | ST1 0.022 | ST4 0.040 | |
| PHD 0.046 | ST2 0.087 | ST5 0.280 | |

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| | |
|---|--|
| COMMENTS | |
| IRON KEEL ex "APILOTIS", ex "BIG FAMILY", ex "ATLANTIA" | |

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

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

| SAILS INVENTORY | | | | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|------|------|-------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|---------|
| MAINSAIL (1) | | | | | | | | | | | | | | | | |
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 2 | 0.14 | 0.64 | 1.11 | 1.88 | 2.49 | 17.29 | | 12/06/2003 | KAKITSIS | Dacron | | | | | | |
| HEADSAILS (1) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Flying | Measurer | Meas.Date | Manufacture | Material | Comment |
| 2 | 0.12 | 0.61 | 1.17 | 2.38 | 3.67 | 4.96 | 10.84 | 143% | 26.46 | | No | | 30/03/2013 | KAKITSIS | Dacron | |
| SYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 2 | 10.56 | 10.56 | 10.56 | 6.00 | 5.84 | 52.52 | | 03/05/2005 | | Nylon | | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |

| MEASUREMENT INVENTORY | | | | |
|-------------------------------------|--------|--------|-------------|-----------------|
| Measurer GRE-11 | | | | |
| Date 03/05/2005 | | | | |
| Comment | | | | |
| Internal Ballast total = 0.0 | | | | |
| Id | Item | Weight | Distance | VCG Description |
| 4 | Ancher | 7.5 | 0.80 | GQR |
| 4 | Chain | 54.0 | 0.80 | 8mm x 20m + |
| 4 | Feels | 30.0 | 2.00 | |
| Id | Item | Maker | Model | |
| 1 | Engine | Kubota | 18HP | |
| Id | Item | Weight | Description | |

| MEASUREMENT INVENTORY | | | | | | | | | |
|------------------------------|---------|--------|----------|--------------------------|--------|-------|-----|--------|-------------|
| Id | Item | Tank | Use | Tank Type | Capcty | Dist. | VCG | Condtn | Description |
| 1 | Tank | Fuel | | Steel | 28.0 | 8.00 | | | 0-0 |
| 2 | Tank | Water | | Bladder | 100.0 | 4.00 | | | 0-0 |
| Id | Item | Weight | Distance | VCG Description | | | | | |
| 1 | Battery | 57.0 | 4.00 | 1x80Ah + 1x75Ah + 1x55Ah | | | | | |

2020

ORC Club Certificate Appendix

| BOAT | | | |
|-------------|--------------------|--------------------|-------------------|
| Name | SAGITTARIUS | Certificate Number | 00117 |
| Sail Nr | GRE-49320 | Issued On | 03/09/2020 |

| TIME ALLOWANCES | | | | | | | |
|-------------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1246.2 | 1047.6 | 943.7 | 890.0 | 871.1 | 865.0 | 881.7 |
| 52° | 823.3 | 705.4 | 634.3 | 605.6 | 594.7 | 590.6 | 591.8 |
| 60° | 783.5 | 671.1 | 611.4 | 587.6 | 576.2 | 571.6 | 570.5 |
| 75° | 754.6 | 644.5 | 595.0 | 572.6 | 558.7 | 549.1 | 541.7 |
| 90° | 764.8 | 648.4 | 589.0 | 568.7 | 552.0 | 538.4 | 518.0 |
| 110° | 764.4 | 632.3 | 577.4 | 551.1 | 531.5 | 520.0 | 504.1 |
| 120° | 786.2 | 646.7 | 582.6 | 553.5 | 531.2 | 510.5 | 486.4 |
| 135° | 858.7 | 705.0 | 610.0 | 569.7 | 544.8 | 521.9 | 481.3 |
| 150° | 994.4 | 794.5 | 678.0 | 602.6 | 568.2 | 545.2 | 502.9 |
| Run VMG | 1148.2 | 915.5 | 779.4 | 682.4 | 613.7 | 575.7 | 531.2 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1197.2 | 981.6 | 861.6 | 786.2 | 742.4 | 720.4 | 706.4 |
| Circular Random | 1024.0 | 829.3 | 725.9 | 667.0 | 632.5 | 611.9 | 590.7 |
| Coastal / Long Distance | 1192.3 | 923.3 | 776.0 | 687.8 | 642.5 | 609.5 | 559.4 |
| Non Spinnaker | 1081.1 | 869.6 | 755.6 | 689.6 | 650.2 | 626.2 | 600.7 |

| 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 | 42.8° | 40.3° | 40.5° | 41.6° | 41.4° | 41.6° | 42.8° |
| Beat VMG | 2.89 | 3.44 | 3.81 | 4.04 | 4.13 | 4.16 | 4.08 |
| 52° | 4.37 | 5.10 | 5.68 | 5.94 | 6.05 | 6.10 | 6.08 |
| 60° | 4.59 | 5.36 | 5.89 | 6.13 | 6.25 | 6.30 | 6.31 |
| 75° | 4.77 | 5.59 | 6.05 | 6.29 | 6.44 | 6.56 | 6.65 |
| 90° | 4.71 | 5.55 | 6.11 | 6.33 | 6.52 | 6.69 | 6.95 |
| 110° | 4.71 | 5.69 | 6.24 | 6.53 | 6.77 | 6.92 | 7.14 |
| 120° | 4.58 | 5.57 | 6.18 | 6.50 | 6.78 | 7.05 | 7.40 |
| 135° | 4.19 | 5.11 | 5.90 | 6.32 | 6.61 | 6.90 | 7.48 |
| 150° | 3.62 | 4.53 | 5.31 | 5.97 | 6.34 | 6.60 | 7.16 |
| Run VMG | 3.14 | 3.93 | 4.62 | 5.28 | 5.87 | 6.25 | 6.78 |
| Gybe Angles | 148.0° | 152.5° | 154.0° | 160.0° | 180.0° | 180.0° | 180.0° |