



2020
ORC Club
Certificate

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



Certificate
Number **01309**
Issued On **12/03/2020**
ORC Ref **03420000ERN**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

| | |
|----------|-------|
| Default | 498kg |
| Maximum | 320kg |
| Minimum* | 235kg |

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

Special Scoring

| | |
|---------------------------|---------------|
| ToD | ToT |
| Non Spin GPH 797.6 | 0.7523 |
| Non Spin OSN 768.9 | 0.7804 |

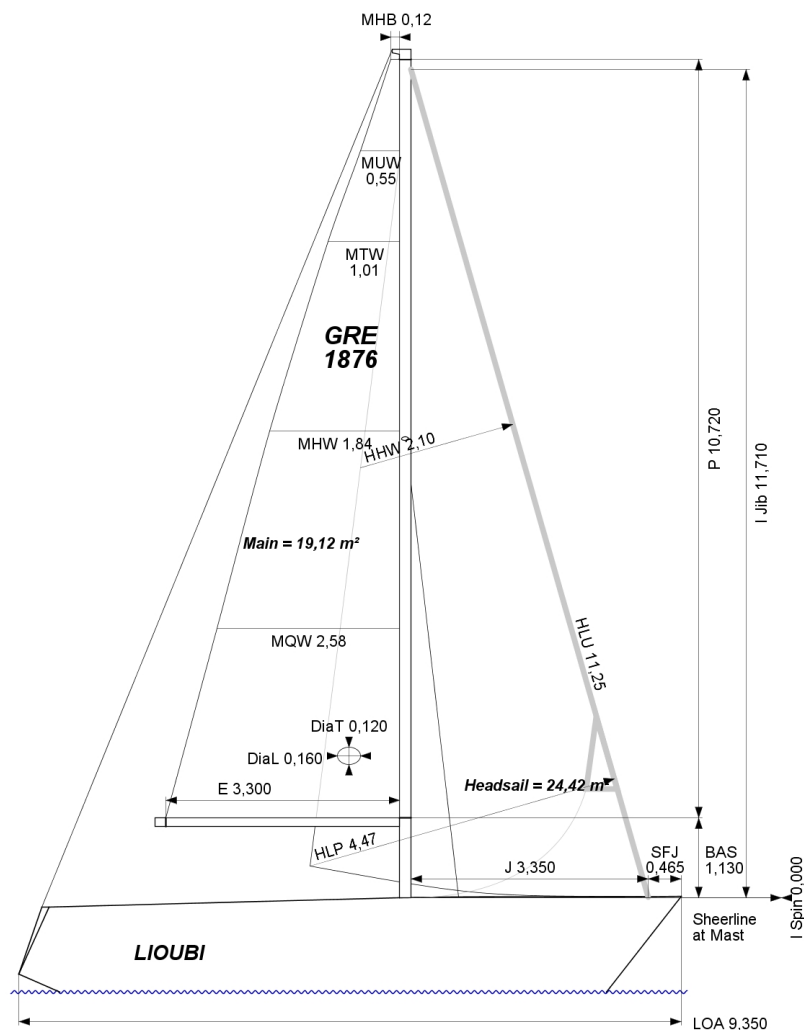
Sails Limitations
Headsails **1** Spinnakers **0**
Woven Polyester

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

Class Division Length
CDL = **6.551**

Stability (Estimated)
Limit Positive Stab.: **124.3°**
Stability Index: **123.3**

Owner



| | | | | | | |
|--|--------------------------------|---|---|--|---------------|---------------|
| BOAT Name LIOUBI Sail Nr GRE-1876 | | GPH 797.6 | HULL Data File GR1876 LOA 9.350m Offset File S-MAXI95.OFF MB 3.166m Displacement 3,856kg Draft 1.463m | | | |
| CLASS Class MAXI 95 Designer PELLE PETTERSON Builder MAXI YACHTS Series 01/1976 Age Date 01/1980 Age Allowance 0.487% | | IMS Division Cruiser/Racer Dynamic All. 0.449% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No | | IMSL 7.842m VCGD -0.018m Sink 13.61kg/mm RL 5.259m VCGM 0.039m WS 19.82m² LSM0 7.970m Displacement/Length ratio 7.6166 | | |
| COMMENTS Builder's displacement | | Water Ballast 0 Trim Tab No BLR Index 0.0000 | | CENTERBOARD N/A | | |
| PROPELLER Installation Shaft non exposed PRD 0.370 Type Solid 3 blades PBW 0.120 PIPA 0.0082 | | | | | | |
| SCORING OPTIONS | | | | | | |
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 768.9 | | | 862.0 | | |
| Time on Time | 0.7804 | | | 0.7830 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 950.3 | 696.6 | 609.6 | 1234.2 | 869.7 | 739.3 |
| Time on Time | 0.7103 | 0.9690 | 1.1072 | 0.5469 | 0.7761 | 0.9130 |

| | |
|--------------------|---------------------------------|
| BOAT | |
| Name LIOUBI | Sail Nr GRE-1876 |
| File GR1876 | Data in meters/kilograms |

| | | | |
|--|-----------------|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | |
| Inclining Test Club Estimated VCG | | | |
| Flotation date 01/01/2013 | | SG 1.0248 | |
| FFM 1.255 | FF 1.255 | SFFP 1.102 | |
| FAM 0.971 | FA 0.971 | SAFP 8.928 | |
| LCF from stem on CL / on sheer | | 5.253 / 5.447 | |
| Maximum beam station from stem | | 5.333 | |
| RM Measured | | 62.4kg-m | |
| RM Default | | 60.6kg-m | |
| Limit of positive stability / Stab.Index | | 124.3° / 123.3 | |
| Freeboard at mast at 3.815 | | 1.333 | |

| | | | |
|--------------------------------|-----------------------------|-------------------|-----|
| RIG | | | |
| Forestay Tension Fixed | Spreaders 1 | | |
| Inner Stay Fixed | Runners/Checkstays 0 | | |
| Carbon Mast No | Jib Furler Yes | | |
| Fiber Rigging No | Main Furler No | | |
| Non-Circular Rigging No | | | |
| Articulated Bowsprit No | | | |
| P 10.720 | E 3.300 | MDT1 0.120 | MW |
| IG 11.710 | J 3.350 | MDL1 0.160 | GO |
| ISP | SFJ 0.465 | MDT2 | BD |
| BAS 1.130 | SPL | MDL2 | MWT |
| FSD -3.000 | TPS | TL -3.000 | MCG |



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

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

| | | | |
|---------------------------------------|--------------------|-----|--|
| PROPELLER | | | |
| Installation Shaft non exposed | PRD 0.370 | | |
| Type Solid 3 blades | PBW 0.120 | | |
| Twin Screw No | PIPA 0.0082 | | |
| PSA | PHD | ESL | |
| PSD | PHL | | |

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| | |
|------------------------|--|
| COMMENTS | |
| Builder's displacement | |

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

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

| SAILS INVENTORY | | | | | | | | | | | | | | | | |
|----------------------------------|------|------|------|------|------|-------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|---------|
| MAINSAIL (1) | | | | | | | | | | | | | | | | |
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| M1 | 0.12 | 0.55 | 1.01 | 1.84 | 2.58 | 19.12 | | 29/08/2018 | | Dacron | | | | | | |
| HEADSAILS (1) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Flying | Measurer | Meas.Date | Manufacture | Material | Comment |
| G1 | 0.04 | 0.53 | 1.03 | 2.10 | 3.27 | 4.47 | 11.25 | 133% | 24.42 | | No | | 29/08/2018 | | Dacron | |
| SYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |

2020

ORC Club Certificate Appendix

| BOAT | | | |
|-------------|-----------------|--------------------|-------------------|
| Name | LIUBI | Certificate Number | 01309 |
| Sail Nr | GRE-1876 | Issued On | 12/03/2020 |

| TIME ALLOWANCES | | | | | | | |
|-------------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1380.9 | 1131.4 | 1001.1 | 920.8 | 879.9 | 873.4 | 904.2 |
| 52° | 877.0 | 734.9 | 653.1 | 604.6 | 583.8 | 578.5 | 585.3 |
| 60° | 816.7 | 691.2 | 616.5 | 579.6 | 562.7 | 556.0 | 557.1 |
| 75° | 776.8 | 656.8 | 590.9 | 561.5 | 544.8 | 533.3 | 524.0 |
| 90° | 786.5 | 659.6 | 588.8 | 557.3 | 538.7 | 521.6 | 499.3 |
| 110° | 860.5 | 705.1 | 611.3 | 565.3 | 541.2 | 522.2 | 486.5 |
| 120° | 921.5 | 744.5 | 639.7 | 578.3 | 549.0 | 528.9 | 491.5 |
| 135° | 1049.8 | 825.4 | 703.0 | 619.6 | 572.0 | 546.5 | 509.1 |
| 150° | 1220.8 | 936.2 | 780.4 | 681.4 | 610.2 | 568.9 | 527.0 |
| Run VMG | 1378.8 | 1045.4 | 857.8 | 741.0 | 657.7 | 598.5 | 541.7 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1379.9 | 1088.4 | 929.4 | 830.9 | 768.8 | 736.0 | 723.0 |
| Circular Random | 1130.4 | 898.9 | 771.6 | 696.3 | 650.9 | 623.7 | 598.5 |
| Coastal / Long Distance | 1379.8 | 1022.3 | 834.1 | 719.0 | 655.6 | 615.1 | 559.3 |
| Non Spinnaker | 1130.4 | 898.9 | 771.6 | 696.3 | 650.9 | 623.7 | 598.5 |

| 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 | 46.5° | 44.3° | 43.1° | 43.5° | 43.5° | 43.5° | 45.2° |
| Beat VMG | 2.61 | 3.18 | 3.60 | 3.91 | 4.09 | 4.12 | 3.98 |
| 52° | 4.10 | 4.90 | 5.51 | 5.95 | 6.17 | 6.22 | 6.15 |
| 60° | 4.41 | 5.21 | 5.84 | 6.21 | 6.40 | 6.48 | 6.46 |
| 75° | 4.63 | 5.48 | 6.09 | 6.41 | 6.61 | 6.75 | 6.87 |
| 90° | 4.58 | 5.46 | 6.11 | 6.46 | 6.68 | 6.90 | 7.21 |
| 110° | 4.18 | 5.11 | 5.89 | 6.37 | 6.65 | 6.89 | 7.40 |
| 120° | 3.91 | 4.84 | 5.63 | 6.22 | 6.56 | 6.81 | 7.32 |
| 135° | 3.43 | 4.36 | 5.12 | 5.81 | 6.29 | 6.59 | 7.07 |
| 150° | 2.95 | 3.85 | 4.61 | 5.28 | 5.90 | 6.33 | 6.83 |
| Run VMG | 2.61 | 3.44 | 4.20 | 4.86 | 5.47 | 6.01 | 6.65 |
| Gybe Angles | 169.0° | 169.0° | 170.5° | 172.0° | 172.0° | 174.0° | 177.0° |