

| | | |
|---|----------------------------|--|
| BOAT Name SCUGNIZZA Sail Nr ITA-27102 | GPH 589.3 | HULL Length Overall 11.650m Maximum Beam 3.972m Displacement 6,187kg Draft 2.100m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension |
| GENERAL Class ITALIA 11.98 Designer POLLI Builder ITALIA YACHTS Series 04/2019 Age 05/2019 Age Allowance 0.000% Offset File IY1198.off - 24/04/2019 11:06:02 Measurement by - 08/05/2019 | | IMSL 10.301m VCGD 0.186m Sink 21.33kg/mm RL 9.177m VCGM 0.148m WS 28.26m² LSM0 9.923m Displacement/Length ratio 6.3321 |



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| SCORING OPTIONS | | | | | | |
|------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 574.0 | | | 645.1 | | |
| Time on Time | 1.0453 | | | 1.0463 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 672.9 | 522.8 | 466.3 | 871.4 | 647.4 | 565.9 |
| Time on Time | 1.0031 | 1.2912 | 1.4477 | 0.7746 | 1.0427 | 1.1927 |

| TIME ALLOWANCES | | | | | | | |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1002.8 | 827.3 | 733.7 | 697.1 | 681.3 | 675.1 | 663.9 |
| 52° | 650.9 | 547.8 | 497.3 | 478.0 | 471.2 | 468.2 | 461.9 |
| 60° | 612.1 | 522.0 | 482.0 | 464.2 | 456.4 | 452.5 | 447.0 |
| 75° | 582.1 | 503.8 | 471.5 | 451.8 | 436.7 | 428.2 | 421.3 |
| 90° | 587.2 | 501.6 | 464.1 | 449.4 | 430.3 | 412.9 | 392.8 |
| 110° | 590.4 | 493.4 | 455.8 | 428.5 | 407.6 | 395.3 | 374.9 |
| 120° | 607.0 | 502.3 | 461.1 | 432.9 | 405.9 | 381.8 | 353.8 |
| 135° | 674.6 | 546.3 | 482.1 | 451.6 | 424.8 | 399.8 | 350.0 |
| 150° | 797.9 | 635.7 | 538.8 | 484.2 | 455.1 | 430.4 | 385.1 |
| Run VMG | 921.4 | 734.0 | 622.1 | 552.2 | 503.9 | 468.5 | 420.8 |

Certificate

Number **271021**
ORC Ref **ITA00052723**
Issued On **23/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default **681kg**
Maximum **720kg**
Minimum* **540kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

| | | |
|--------------|--------------|---------------|
| | ToD | ToT |
| Double H.GPH | 598.7 | 1.0021 |
| Double H.OSN | 584.4 | 1.0267 |
| Non Spin GPH | 623.0 | 0.9631 |
| Non Spin OSN | 606.4 | 0.9895 |

| Selected Courses | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 962.1 | 780.7 | 677.9 | 624.6 | 592.6 | 571.8 | 542.4 |
| Circular Random | 809.2 | 654.3 | 571.9 | 524.3 | 494.8 | 475.1 | 448.6 |
| Coastal / Long Distance | 958.0 | 732.6 | 610.9 | 544.1 | 506.3 | 475.2 | 425.7 |
| Non Spinnaker | 869.6 | 697.1 | 603.7 | 548.9 | 514.9 | 492.4 | 463.4 |

Sails Limitations

| | |
|-----------|------------|
| Headsails | Spinnakers |
| 5 | 3 |

| 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 | 43.6° | 42.2° | 41.0° | 40.1° | 40.5° | 40.4° | 40.7° |
| Beat VMG | 3.59 | 4.35 | 4.91 | 5.16 | 5.28 | 5.33 | 5.42 |
| 52° | 5.53 | 6.57 | 7.24 | 7.53 | 7.64 | 7.69 | 7.79 |
| 60° | 5.88 | 6.90 | 7.47 | 7.76 | 7.89 | 7.96 | 8.05 |
| 75° | 6.18 | 7.15 | 7.64 | 7.97 | 8.24 | 8.41 | 8.54 |
| 90° | 6.13 | 7.18 | 7.76 | 8.01 | 8.37 | 8.72 | 9.17 |
| 110° | 6.10 | 7.30 | 7.90 | 8.40 | 8.83 | 9.11 | 9.60 |
| 120° | 5.93 | 7.17 | 7.81 | 8.32 | 8.87 | 9.43 | 10.18 |
| 135° | 5.34 | 6.59 | 7.47 | 7.97 | 8.48 | 9.00 | 10.29 |
| 150° | 4.51 | 5.66 | 6.68 | 7.43 | 7.91 | 8.36 | 9.35 |
| Run VMG | 3.91 | 4.90 | 5.79 | 6.52 | 7.14 | 7.68 | 8.55 |
| Gybe Angles | 144.0° | 147.7° | 148.8° | 156.1° | 171.7° | 180.0° | 180.0° |

Class Division Length

CDL = **9.740**

Storm Sails Areas

Heavy Weather Jib **31.08**
Storm Jib (JL=9.87) **11.51**
Storm Trysail **13.66**

Owner

| | | |
|-------------|-----------------------|---------------------------------|
| BOAT | Name SCUGNIZZA | Sail Nr ITA-27102 |
| | File I27102 | Data in meters/kilograms |

| | | | | |
|--------------------------------|------------------|----------------------------|-------------------|--|
| 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 14.530 | E 5.370 | MDT1 0.110 | MW 0.187 | |
| IG 15.120 | J 4.750 | MDL1 0.200 | GO 0.203 | |
| ISP 16.340 | SFJ 0.140 | MDT2 0.105 | BD 0.230 | |
| BAS 1.650 | SPL 4.830 | MDL2 0.175 | MWT 145.40 | |
| FSP 0.070 | TPS 6.160 | TL 2.070 | MCG 5.680 | |

| | | | | | |
|--|------------------|--------------------|--|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | | | |
| Inclining Test Current Inclining | | | | | |
| Flotation date 22/05/2019 | | | | SG 1.0240 | |
| FFM 1.292 | FF 1.292 | SFFP 0.004 | | | |
| FAM 0.372 | FA 0.374 | SAFP 11.642 | | | |
| W1 87.4 | PD1 547.4 | WD 12.250 | | | |
| W2 87.4 | PD2 533.2 | GSA 1.0 | | | |
| W3 87.4 | PD3 534.4 | RSA 1.0 | | | |
| W4 87.4 | PD4 529.9 | PLM 9000.0 | | | |
| LCF from stem on CL / on sheer | | | | 6.476 / 6.720 | |
| Maximum beam station from stem | | | | 8.592 | |
| RM Measured | | | | 157.3kg-m | |
| RM Default | | | | 176.8kg-m | |
| Limit of positive stability / Stab.Index | | | | 116.0° / 113.7 | |
| Freeboard at mast at 4.890 | | | | 1.358 | |



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

| | | |
|------------------------------|--------------------|------------------|
| PROPELLER | | |
| Installation Strut | PRD 0.452 | |
| Type Folding 2 blades | PBW 0.117 | |
| Twin Screw No | PIPA 0.0040 | |
| ST1 0.065 | ST3 0.180 | ST5 0.350 |
| ST2 0.180 | ST4 0.110 | EDL 1.930 |

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| Certificate | |
| Number 271021 | |
| ORC Ref ITA00052723 | |
| Issued On 23/05/2019 | |
| VPP Ver. 2019 1.01 | |
| Valid until 31/12/2019 | |

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

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

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



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|---------------------------------|------------|------------|------------|------------|------------|-------------|-----------------|--|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0.510 | 1.30 | 2.12 | 3.48 | 4.53 | 47.45 | 48.59 | P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | | | | |
| | 15.65 | 15.65 | 15.65 | 8.69 | 8.58 | 113.05 | | SL · (SFL + 4·SHW) / 6 | |
| Asymmetric on centerline | SLU | SLE | SL | SHW | SFL | | | | |
| | 17.74 | 14.28 | 16.01 | 8.34 | 9.74 | 115.01 | | AS · (SFL + 4·SHW) / 6 | |

| | | | | | | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| 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 |
| 0.12 | 0.87 | 1.60 | 2.84 | 3.94 | 4.95 | 15.24 | 41.22 | | | 08/05/2019 | Carbon | J1 |

| | | | | |
|--|-------------|---------------|--------------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer 162 | | | | |
| Date 22/05/2019 | | | | |
| Comment Perfect condition weather | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| A | Engine | VOLVO PENTA | 30 HP | |
| Id | Item | Weight | Description | |

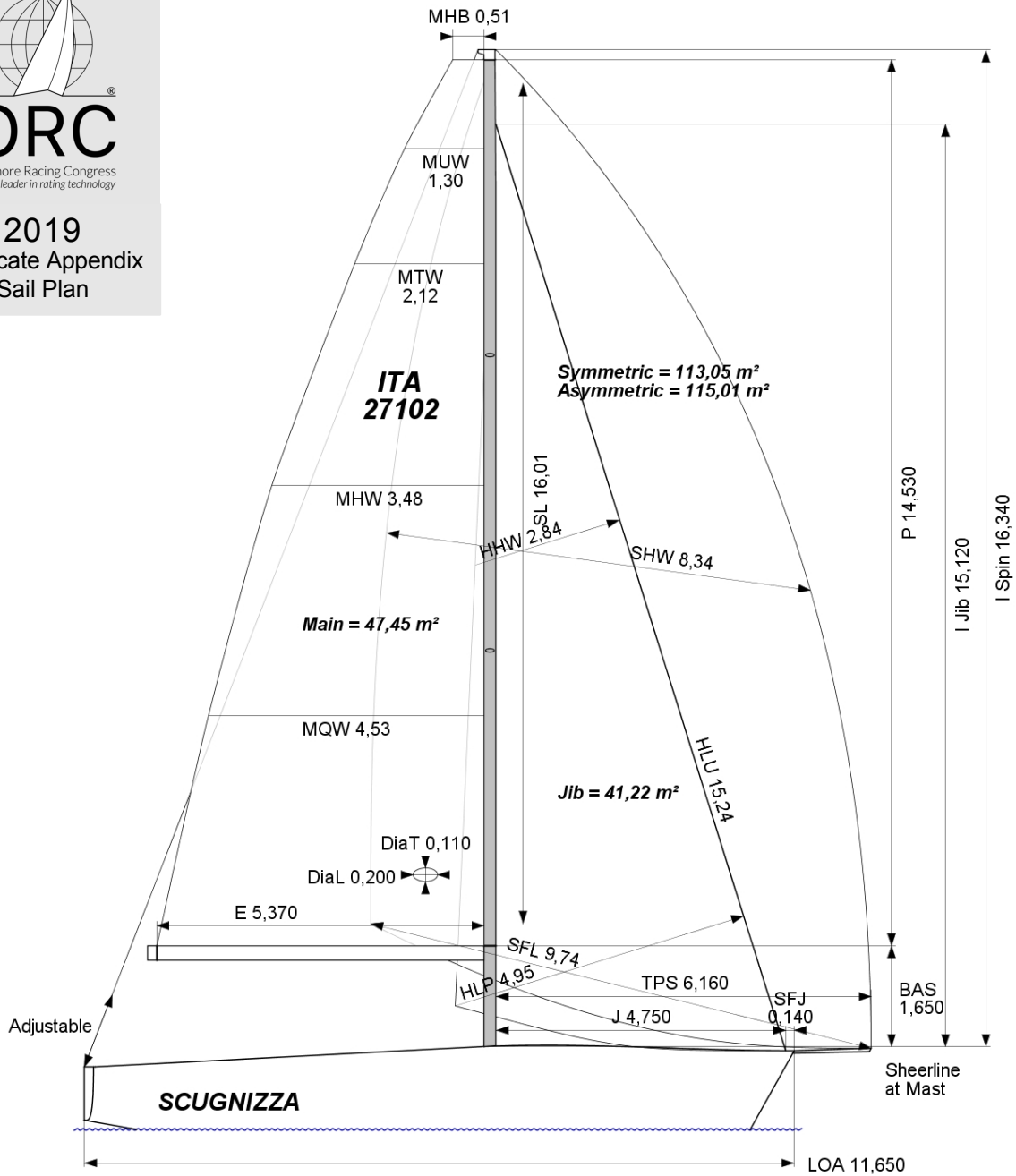
| | | | | | | |
|------------------------------|-------------|-----------------|------------------|---------------|----------------------|-------------------------------|
| MEASUREMENT INVENTORY | | | | | | |
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG Condtn Description |
| B | Tank | FUEL | INOX | 200.0 | 9.20 | 40-0 L DX |
| A | Tank | WATER | PVC | 100.0 | 8.90 | 0-0 SX |
| Id | Item | Weight | Distance | VCG | Description | |
| F | Ballast | 94.7 | 6.75 | | 4 PANI SX CX DX | |
| E | Ballast | 69.1 | 6.35 | | 3 PANI SX CX DX | |
| D | Ballast | 23.4 | 5.90 | | PANE PB CX | |
| C | Ballast | 45.2 | 5.45 | | 3 PANI PB SX CX | |
| B | Ballast | 47.5 | 5.15 | | 2 PANI PB SX DX | |
| A | Ballast | 14.4 | 4.80 | | PANE PB SX | |
| B | Battery | | 8.25 | | AGM 1 X 75 AH ENGINE | |
| A | Battery | | 5.05 | | AGM 3 X 75 AH SERV | |



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Sail Plan



SAILS INVENTORY

| MAINSAIL (1) | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|------|------|--------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|---------|
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| A | 0.51 | 1.30 | 2.12 | 3.48 | 4.53 | 47.45 | | 08/05/2019 | QUANTUM | Carbon | | | | | | |
| HEADSAILS (1) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
| A | 0.12 | 0.87 | 1.60 | 2.84 | 3.94 | 4.95 | 15.24 | 104% | 41.22 | | | | 08/05/2019 | | Carbon | J1 |
| SYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| A | 15.65 | 15.65 | 15.65 | 8.69 | 8.58 | 113.05 | | 08/05/2019 | QUANTUM | Nylon | S 1.5 | | | | | |
| ASYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |
| A | 17.74 | 14.28 | 16.01 | 8.34 | 9.74 | 115.01 | asym | | 22/05/2019 | QUANTUM | Nylon | A1 | | | | |