

# MS AquaMarin – Technical Data Sheet

Source: valuation report no. 2023016 by Thomas Speermann (Leuchtturm Versicherungs-Service GmbH, Hanover), inspection 20 March 2023, and the ship's documents. Current status: out of service since August 2025; see condition statement.

## Vessel

|                                 |                                                                      |
|---------------------------------|----------------------------------------------------------------------|
| Name                            | AquaMarin (ex "Sauerland", Lake Bigge)                               |
| Type                            | Passenger vessel, day excursion vessel with catering                 |
| Builder, year                   | Lux shipyard, Niederkassel-Mondorf, Germany, 1968, yard no. 28       |
| Register                        | German Register of Inland Vessels, Minden Local Court, folio 1657    |
| Owner                           | Okersee-Schiffahrt GmbH, Schulenberg, Germany                        |
| Home port, trading area to date | Schulenberg, Oker reservoir (Harz mountains); based there since 2001 |

## Main dimensions

|                                   |                    |
|-----------------------------------|--------------------|
| Length overall                    | 34.30 m            |
| Beam                              | 6.10 m             |
| Depth                             | 1.55 m             |
| Draught                           | 0.75 m             |
| Displacement                      | 106 m <sup>3</sup> |
| Freeboard (per operating licence) | 80 cm              |

## Passengers

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Certified capacity | 250 persons                                                                           |
| Main deck saloon   | 100                                                                                   |
| Upper deck saloon  | 40                                                                                    |
| Open/sun deck      | 110                                                                                   |
| Access             | wheelchair-accessible, remote-controlled bow ramp, adjustable to varying water levels |

## Hull and construction

- Steel St 37, welded, shell plating 5 mm, bottom plating 6 mm, transverse framing (frame spacing 500 mm), rubbing strake of approx. 200 mm chequer plate
- Raked plate stem with bow ramp, wide transom stern, flat bottom, low rise of floor
- 10 watertight compartments, 9 transverse bulkheads
- Plate thicknesses per 2023 bottom survey: shell 4.7–5.7 mm, bottom 5.4–5.6 mm, bilge 4.9–5.8 mm, forebody 4.4–5.6 mm, afterbody 6.1–6.2 mm
- Hull preservation completely renewed in 2018: grit blasting SAR 2½, two-pack marine coating to the paint specification

- Moved from Lake Bigge to the Harz in 2001 in two sections by heavy road transport; the hull has been split and rejoined before

## Propulsion and machinery

|                         |                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main engine             | Deutz BF/1013 MC, 127 kW (172 hp) at 1,800 rpm, built 2000, resiliently mounted, electric remote control                                                                                                                          |
| Running hours (03/2023) | approx. 20,000 h, approx. 600 h/year, serviced regularly by a specialist firm                                                                                                                                                     |
| Propulsion/steering     | Schottel rudder propeller SRP 75 via cardan shaft, electro-hydraulic steering, hydraulic lines renewed every two years                                                                                                            |
| Generator               | MAN, 52 kVA, 3/230/400 V 50 Hz                                                                                                                                                                                                    |
| Electrical system       | 24 V DC emergency and instrument system (batteries with chargers); 220/380 V three-phase supply from generator or inverters                                                                                                       |
| Auxiliaries             | 2 pressurised water systems (fresh water, toilet flushing), engine room fan, fire/deck-wash pump, bilge pump 220 V, refrigeration unit, diesel overfill alarm with level sensor, Minimax MX 1230 fire extinguishing system (2018) |

## Tanks

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| Fuel        | approx. 4,400 l                                                                |
| Fresh water | approx. 3,900 l                                                                |
| Sewage      | approx. 3,000 l (tank renewed 2020), discharge connection, overfill protection |

## Wheelhouse and navigation (renewed 2021)

Radio Holland RHRS-2005RC radar with TFT display, Furuno GPS, echo sounder and rudder angle indicator, intercom, fire alarm system, visual and audible bilge alarm for all watertight compartments, battery monitoring, control panels for main and auxiliary engines, lighting and pumps controlled via a smart-home system, CCTV (stern, bow, saloon, decks, engine room). Steel wheelhouse with all-round visibility, heating and air conditioning (2022).

## Deck equipment

Electric bow anchor winch, bow anchor with approx. 40 m of chain (approx. 100 kg), navigation lights, antennas, searchlights (1 electric, 1 manual), life-saving appliances as required by regulations.

## Passenger areas and catering

- **Main deck saloon:** 14 aluminium-framed opening windows with double-glazed safety glass, fixed panoramic windows forward, waterproof flame-retardant panelling, carpet, white and blue décor with teak trim. 18 tables with upholstered chairs, 4 seating groups aft, ticket office with till, large flat-screen TV.
- **Pantry and bar (starboard):** chilled draught beer system, bean-to-cup coffee machine, combi oven, wash-up station, dishwasher, microwave, two-ring ceramic hob, several refrigerators.
- **Toilets:** ladies' and gents' aft, port and starboard, tiled.
- **Upper deck saloon:** two panoramic windows, usable separately for smaller events.

- **Sun deck:** reached by the aft companionway, central awning on a stainless-steel frame, 16 fixed tables with bench seating.
- Audio and video system completely renewed.

## Investments 2018–2022 (per valuation report)

| Year | Work                                     | approx. |
|------|------------------------------------------|---------|
| 2018 | Complete hull preservation               | €60,000 |
| 2018 | Fire extinguishing and fire alarm system | €30,000 |
| 2020 | Sewage tank and bottom plates            | €20,000 |
| 2021 | Navigation equipment in wheelhouse       | €25,000 |
| 2022 | Wheelhouse air conditioning              | €6,000  |

## Certification and documents

- Last operating licence no. 2441-19-7 (issued by the State of Brandenburg), trading area restricted to the Oker reservoir, valid until 1 July 2025; bottom survey also valid until 1 July 2025. The vessel has never held a ZSUK (Mainz) ship's certificate. A new survey by the competent authority is required for any new trading area.
- The Speermann valuation report 2023 (19 pages, 38 photos), certificate of registry, general arrangement plan and maintenance history are available in the data room.

## Contact

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