BPS MARINE™
ULTRASONIC ANTIFOULING TECHNOLOGY

MARINEMAX

SAXDOR 400 CASE STUDY

BY BPS MARINE

INTRODUCTION

Standard antifouling coatings often fall short when protecting the hydrodynamic profile of a Saxdor 400 in Savannah's highly active bio-fouling environment. To address this, BPS Marine deployed a specialized ultrasonic antifouling system over a nine-month timeframe, specifically calibrated for the vessel's wetted surface area.

This review details how eliminating micro-growth at the source preserved the boat's motor performance and fuel efficiency, successfully circumventing the heavy drag and frequent, costly haul-outs usually required in these local waters.

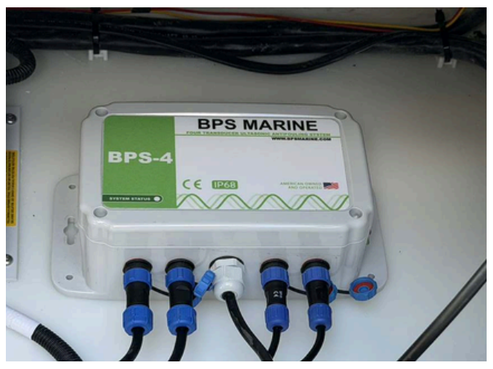


REPORT LOG 1

The MarineMax installation was completed in May 2026 while the vessel remained in the water in Charleston, South Carolina. Because the equipment mounts internally, our technicians were able to seamlessly integrate the BPS Marine BPS-4 system into the Saxdor 400 without the need for a costly and time-consuming haul-out. To ensure precision ultrasonic protection across the monohull profile, four transducers were strategically mapped and bonded to the inside of the hulls—four in the hull —providing true edge-to-edge coverage. The system's control module was then secured within a dry engineering space, ensuring clean integration with the vessel's 12V house bank while keeping it easily accessible for routine inspections.

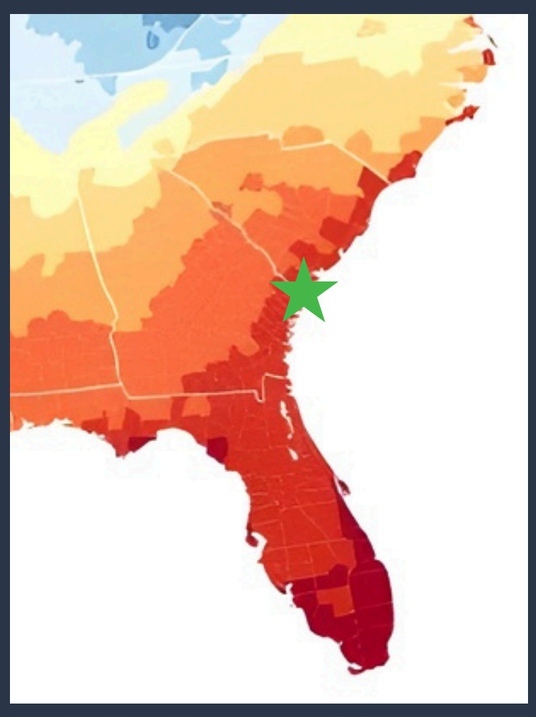






LOCATION: SAVANNAH GA

This study was conducted in Savannah, Georgia, a prominent hub for East Coast cruising and boating. The area's subtropical climate and warm waters, combined with nutrient-rich salt marshes and strong tidal currents, foster a highly active marine ecosystem. This estuarine environment makes Savannah a severely aggressive bio-fouling zone, where rapid marine growth creates an ongoing maintenance challenge for vessel owners.





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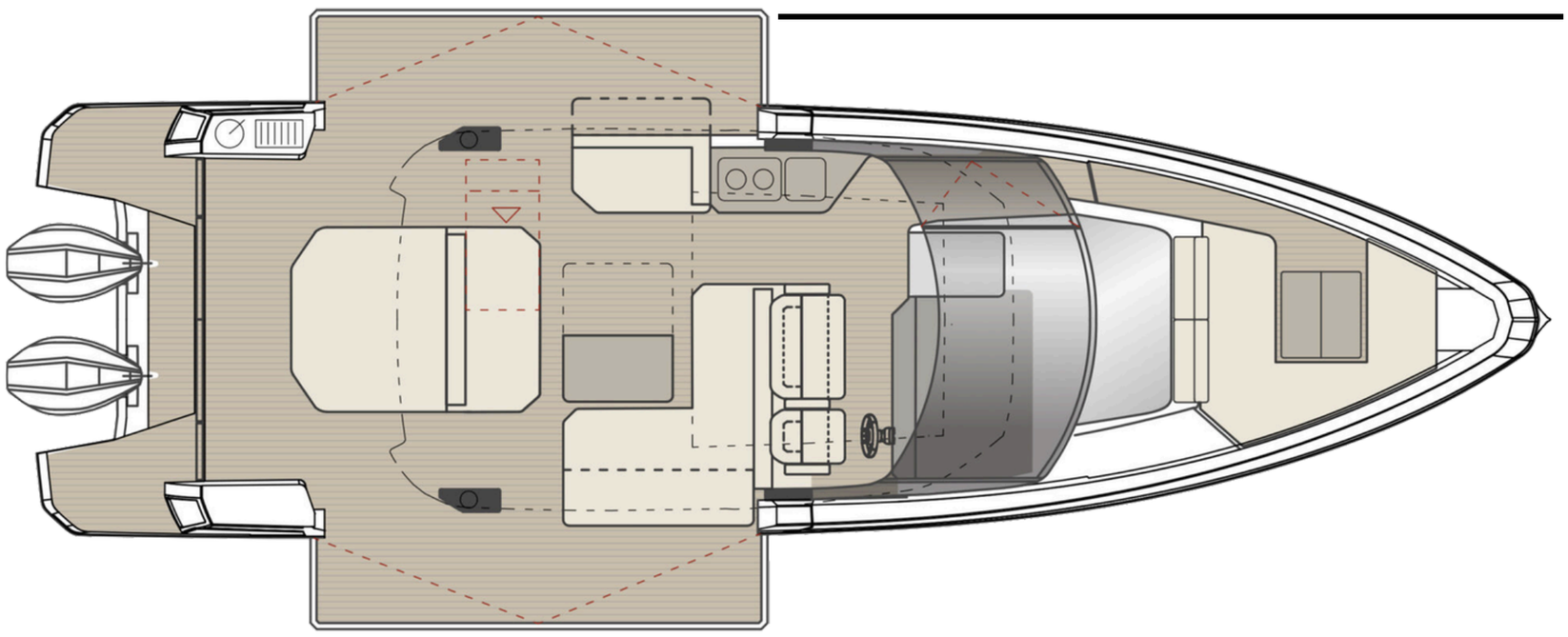
SAXDOR 400 CASE STUDY

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PROJECT SUMMARY

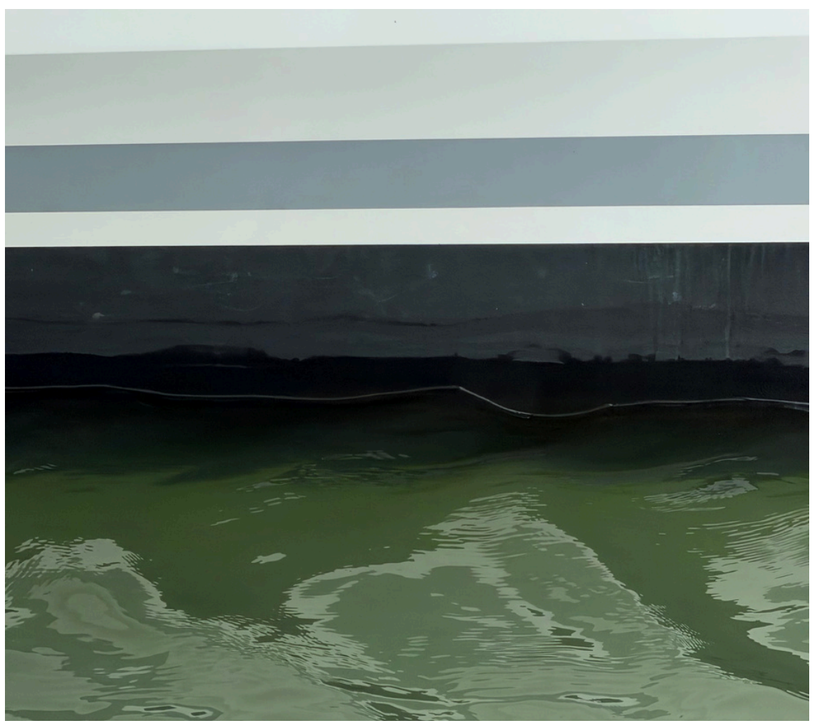
This report details a 3 month field study of the BPS Marine ultrasonic antifouling system aboard a Saxdor 400. Conducted in Savannah, Georgia, the vessel was subjected to the region's notoriously aggressive bio-fouling, driven by nutrient-rich salt marshes and strong tidal flows. Activated immediately after an in-water MarineMax installation, the system ran continuously for 9 months without the need for any supplemental hull cleaning or maintenance.

This full-year test was designed to isolate the BPS-4's ability to protect expansive fiberglass hulls from severe marine growth. Upon its scheduled haul-out and inspection, the Saxdor 400's hull was completely free of hard fouling, validating the technology's ability to protect high-performance powerboats in demanding, high-growth ecosystems.



REPORT LOG 2

By preventing the early formation of bio-film and barnacle larvae, the BPS-4 system effectively neutralized the severe drag that commonly affects powerboats in Savannah's dynamic waterways. This protected the Saxdor 400's hydrodynamic profile, allowing the vessel to maintain its day-one cruising speeds and fuel economy. During the annual haul-out, an inspection showed the fiberglass hull was completely clear of any hard fouling, proving that the system's targeted ultrasonic coverage is highly effective.



TEST BOAT: SAXDOR 400

For this evaluation, we selected the Saxdor 400, an advanced fiberglass monohull. Representing the standard for modern powerboats, its large wetted surface area and unique hull design offer a highly demanding environment. This makes it a perfect candidate to rigorously test the BPS-4 system's acoustic reach, structural conductivity, and overall protection capabilities on complex fiberglass surfaces.

