



proprietary systems such as *ABS Digital Shaft Alignment Monitoring (D-SAM)* and *ABS SmartBearing* significantly enhances the ability to detect and correct shaft alignment issues before they significantly impact vessel performance or lead to serious marine casualties.

TRUSTED ADVISOR

ABS has developed several service lines that assist in analyzing the solutions available to meet operational, regulatory and safety requirements. ABS technical specialists are prepared to aide designers, builders, owners and operators in areas such as market evaluation, configuration analysis, energy efficiency analysis, environmental analysis and operational support. Whether used in a single instance or in a comprehensive offering, each service leverages the latest technology, tools and practices in developing tailored solutions for each client.

Ballast Water Management Technology Evaluation Service

As international and national ballast water requirements enter into force, owners and operators are challenged with selecting the right system to meet the unique operational, technical and regulatory needs of their fleets. The ABS Ballast Water Management Technology Evaluation Service leverages in-depth knowledge and experience with various regulations and systems to help

clients identify the best system to demonstrate compliance. ABS technical specialists are ready to help clients identify their custom solutions.

Emissions Solutions

As ship emissions become a growing area of focus for regulators and the public, shipowners and operators must identify technical and operational solutions to meet future standards. ABS provides a full suite of technology evaluation and classification services to help owners and operators demonstrate a commitment to environmental stewardship. From scrubber technology to selection of alternative fuels, ABS technical specialists are prepared to help identify practical solutions to emissions requirements that meet the unique needs of each client while maintaining the highest level of safety.

Performance and Efficiency

Energy cost uncertainties, changing regulations and a dynamic global marketplace are changing the way ships are designed and operated. ABS provides a full suite of technical and advisory services in areas like hull optimization, evaluation of energy saving devices, propulsion system evaluation, hydrodynamic evaluation and optimum trim guidance, to name a few. Our world-class technical specialists are prepared to help owners, operators and designers identify practical solutions to meet efficiency and performance goals.