

Our field of expertise

Specialist surveys

Specialist vessel surveys are a critical part of maintaining the safety, integrity, and compliance of maritime vessels.

What sets us apart?

-  Our team comprises highly trained and experienced marine surveyors
-  We provide detailed reports with clear findings and actionable recommendations
-  We work closely with vessel owners and operators to minimize disruption
-  Direct access to a local supplier network of materials, equipment and expertise
-  We use advanced technology and comply with the highest industry standards



We strive to provide the highest quality support, ensuring that every vessel operates at its best, with safety as a top priority.

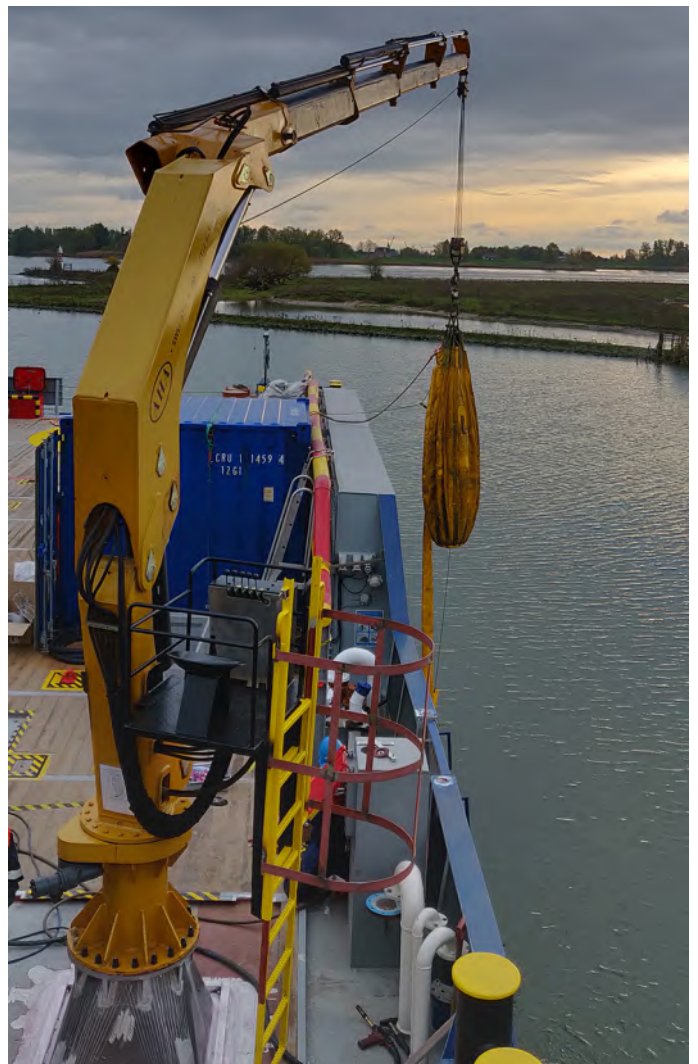
Safety first

At Saltwater Engineering, we understand the importance of maintaining the safety, integrity, and compliance of maritime vessels. Specialist vessel surveys are a critical part of this process, conducted every five years, or when vessels sustain damage or undergo significant modifications.

With Saltwater's commitment to excellence, we strive to support vessel owners in optimizing their fleets performance and safety. Whether it is routine maintenance or addressing damage, our team is dedicated to minimizing downtime and ensuring vessels are always ready for their intended purpose. Choose Saltwater for unmatched expertise and reliability in navigating the complexities of the maritime sector.

Why are specialist surveys important?

Regular surveys are crucial for several reasons. First, they help identify potential issues that could jeopardize the safety of the vessel, crew, and cargo. Second, ensuring that vessels comply with national and international regulations is essential for legal operations. Lastly, early detection of problems can prevent costly repairs and downtime, thereby maintaining operational efficiency. In collaboration with Saltwater Marine Services, our daughter company, to assist with the production and fabrication services for marine and offshore related equipment, we have extensive contacts with local suppliers of materials, equipment, and expertise, ensuring the best possible service for our customers.



Saltwater Engineering is equipped to handle a wide range of specialized surveys. Our expertise extends across several critical areas, including Specialist surveys, Damage survey, and Modification surveys, each tailored to address the unique needs of your vessel.

Specialist surveys

Every five years the surveys include a thorough examination of the vessel structure, machinery and safety equipment. While aspects such as machinery checks and safety equipment reviews are part of the broader survey, Saltwater specializes exclusively in delivering top-quality hull inspections.

- Hull Inspections; checking for corrosion, damage, and structural integrity.
- Machinery checks; assessing the condition of engines, generators, and other critical machinery.
- Safety Equipment Review; ensuring all life-saving and firefighting equipment is in optimal condition.

Damage surveys

In the event of an incident, a damage survey is essential to assess the extent of harm and determine the necessary repairs.

- Impact assessment; evaluating the damage to the hull, machinery and equipment.
- Repair recommendation; providing a detailed plan for repairs to restore the vessel to its original condition.
- Cost estimates; offering an accurate estimate of repair costs and timelines.

Modification surveys

When vessels undergo significant modifications, a survey is necessary to ensure that the changes meet safety and regulatory standards.

- Structural changes; verifying that modifications to the hull or superstructure are safe and compliant
- Machinery upgrades; ensuring that new or upgraded machinery is correctly installed and operational
- System integration; checking that all new systems are properly integrated and functional.

Saltwater Engineering brings decades of experience and expertise to every survey we conduct. Our team of qualified marine surveyors is dedicated to providing thorough, accurate, and timely inspections. We use state-of-the-art technology and comply with the highest industry standards to ensure your vessel's safety and compliance.



Are you facing a challenge?
Get in touch with one of our consultants

Saltwater Lead Engineer Wouter Besemer discusses several cases where the company's expertise was called in.

What are the considerations when dealing with damages?

Generally speaking there are two objectives to take into account: one is proposing adequate repairs to ensure the vessel can resume service with minimal downtime. The other is determining the root cause and providing a solution to make sure the damages do not return.

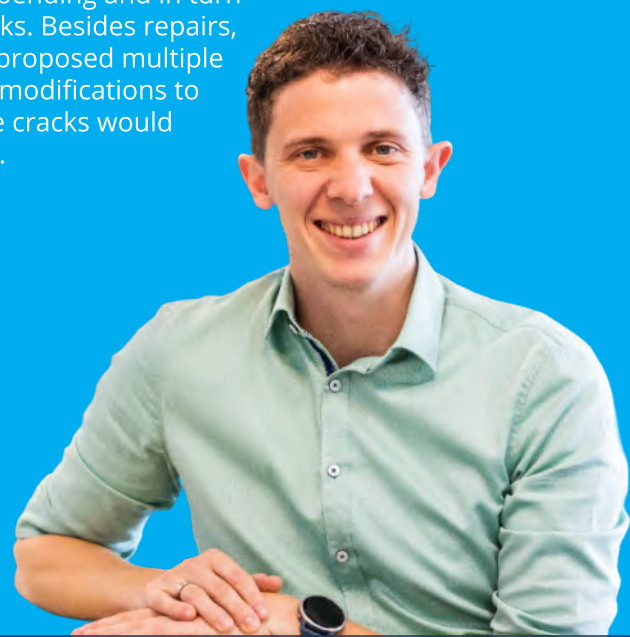
Are the repairs always straightforward?

No, this is more than ordering to cut out the damaged part and replace it with a new part. I can recall cases where simply cutting away a damaged section would have resulted in a loss of strength of the vessel that would have made things worse. In fact, we had to propose temporary supporting structures to eliminate this effect.

Is the root cause usually not obvious?

Well, when dealing with a collision, yes, but if a vessel has cracks or other damages this can be a puzzle. In such cases, our work goes beyond proposing repairs. We will investigate the cause of the damages and propose structural reinforcements to ensure the damage does not return.

For instance, Saltwater was contracted to perform a survey on a vessel that developed cracks in various spots amidships. Upon review of the structural design of the vessel, it was found that the longitudinal continuity of the vessel was inadequate, which led to excessive bending and in turn led to cracks. Besides repairs, Saltwater proposed multiple structural modifications to ensure the cracks would not return.



Partner up with Saltwater

Everything Is Possible



Saltwater provides customized engineering solutions for the naval and offshore industry. Understanding your challenges enables us to deliver practical, quality products and clever solutions.

Mission

Our mission at Saltwater is to engineer and develop maritime solutions that reduce the environmental impact and support a low carbon footprint. We are committed to provide innovative and efficient engineering services that meet the needs of our clients while guaranteeing safety and quality.

Vision

At Saltwater, our vision is to be a leading force in the maritime engineering industry, striving for positive change through socially responsible practices. We envision a future where our engineering solutions help to create a healthier and more sustainable world. We are committed to ship conversions and new vessel designs, encouraging a culture of young innovators and collaborating with our partners and clients to achieve our shared goals.

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