

Ultrasonic thickness measurement (UTM) essential for vessel preservation

"We go where no one else wants to go"

Detecting "material fatigue", corrosion and erosion is essential to ensure safety, deployability and profitability in the marine industry. Metal thicknesses are measured using ultrasonic thickness measurement (UTM). The results are published in a report so that the shipowner can make the right decisions about maintenance and repairs.

"You make sure the workspace is safe and we take care of the rest, wherever and whenever you desire," explains Ger Monster, director of Ned Marine Services.

The Ridderkerk-based company operates all over the world, from Singapore to Portugal, the USA to Rotterdam. Ultrasonic thickness measurements are sometimes done on board of large cruise ships or mega container ships, but they can also be done on small rowing boats in the harbour, on tankers or bulk carriers. "It basically means that UTM can be used to all floating equipment in the shipping industry. This also includes the offshore industry, machine building and steel construction, the process industry and energy market," according to Ger Monster.

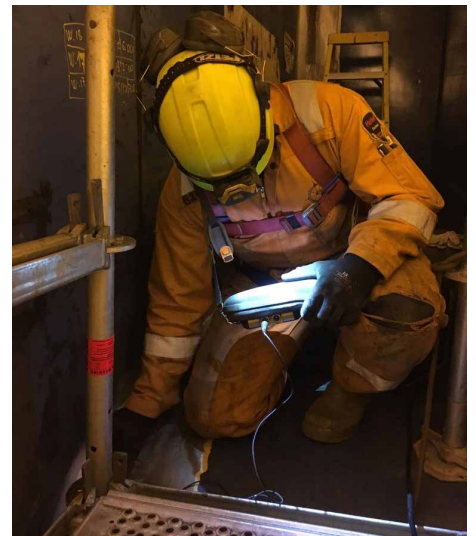
In the shipping industry, a "Special Survey" or "Renewal Survey" must be performed every five years. These are comprehensive inspections of all essential parts of the ship to ensure safety. There will also be examined whether the condition of the hull and the key systems and equipment of the ship (still) complies with the strict rules of the Classification Societies. Ned Marine is certified by all major classification societies to perform UTM inspections, such as the above-mentioned "Special Survey" and "Renewal Survey", as well as an "Intermediate Survey",

"Cap Survey" or an inspection which can be performed at any time requested by the owner. An inspection can be scheduled in the short- or long-term, this, as part of a long-term maintenance plan.

Maximum flexibility

It doesn't really matter where the inspections are performed. Sometimes the Ned Marine team joins the ship and the inspections are performed during sailing, but sometimes the inspection also takes place when the ship is in the dry dock for maintenance. If the inspection only takes half a day to a few days, it can also be done when the ship is in port. "We can often be on site very quickly and we're known for our flexibility in this matter. If there is a high time pressure, we can also bring several teams to the site."

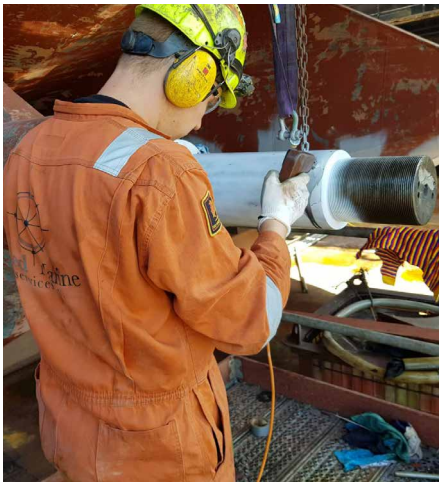
The only thing that Ned Marine requires is that the customer must provide a well-ventilated area, so that the Ned Marine professionals can perform their work safely. Ger Monster: "We go places no one else wants to enter, into the depths and caverns of a ship and the deepest, tightest and dirtiest places, because that kinds of places also need to be inspected



thoroughly. If the shipowner ensures that the spaces are safe and tanks have been, for example, opened and ventilated, we'll take care of the rest."

Ned Marine teams are operating with complete autonomy and have the most modern inspection equipment. The equipment they use, naturally meets all strict requirements. The technicians who perform the inspections and prepare the reports have been trained by the Ridderkerk-based





company in their own training centre. The technicians have the most recent certificates from the IACS.

Significant savings for Norwegian shipping company

Ned Marine ensures that measurements can be performed quickly, wherever and whenever it is best for the customer. For example, it recently performed a large-scale inspection of a ship, owned by a Norwegian shipping company before docking at a drying installation in Lithuania. 75% of all ship repair activities, the ship can remain floating in the water and for only 25% of all cases the ship has to be dry docked to perform any repairs. "We were able to perform the inspections during the voyage, therefore docking took less time than expected. This not only saved a lot of time, but also saved a lot of money, because

every minute a ship like this is out of the water, it loses a lot of money", explains Ger Monster.

UTM can also be combined with other types of inspections when required, for example inspecting of welds (non-destructive testing or NDT), such as ultrasonic examination, visual examination, magnetic examination and penetrant examination. This case also happened in Lithuania, where the Ridderkerk-based company guided the proposed repairs in the quickly prepared report. Because the team was still onboard, they could measure the renewed plates that were used for the repairs and tested the new welds immediately. Ned Marine can also perform UTM inspections without having to remove the coating first. The team that inspected the Norwegian shipping company's vessel, assessed the current coating condition immediately.

Digital reporting

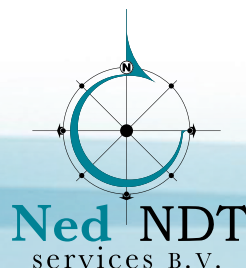
All findings are published as quickly as possible in an official report, including clear photos and illustrations. Customers can always view their reports online using their personal account in the secured environment on the Ned Marine website. As a result, customers always have an up-to-date overview and no longer have to continuously carry their papers with them. When you have an audit, you can quickly look into the report and submit it to the authorities which are involved. "Looking back, it has been found that this Norwegian

shipping company has saved itself a lot of time as well as money.

Thanks to our flexible, and professional approach, it knew exactly what was needed to continue operating according to the international rules and knew exactly where they stood. Our work took little under six weeks in total, we were able to continue our daily activities and the customer kept full control of the project. The Norwegian shipping company had sufficient time to resolve other issues that came up with these inspections, which resulted in the ship putting back into service without losing any more time.

Contact us

Are you interested in our UTM inspections or any of our other inspections, products or services? Please visit Ned Marine Services BV, where you can also sign up for our newsletter or contact us on +31 (0) 180 420 055 or info@nedmarine.com.



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