

SUBSEA

PROTECTION AND PERFORMANCE

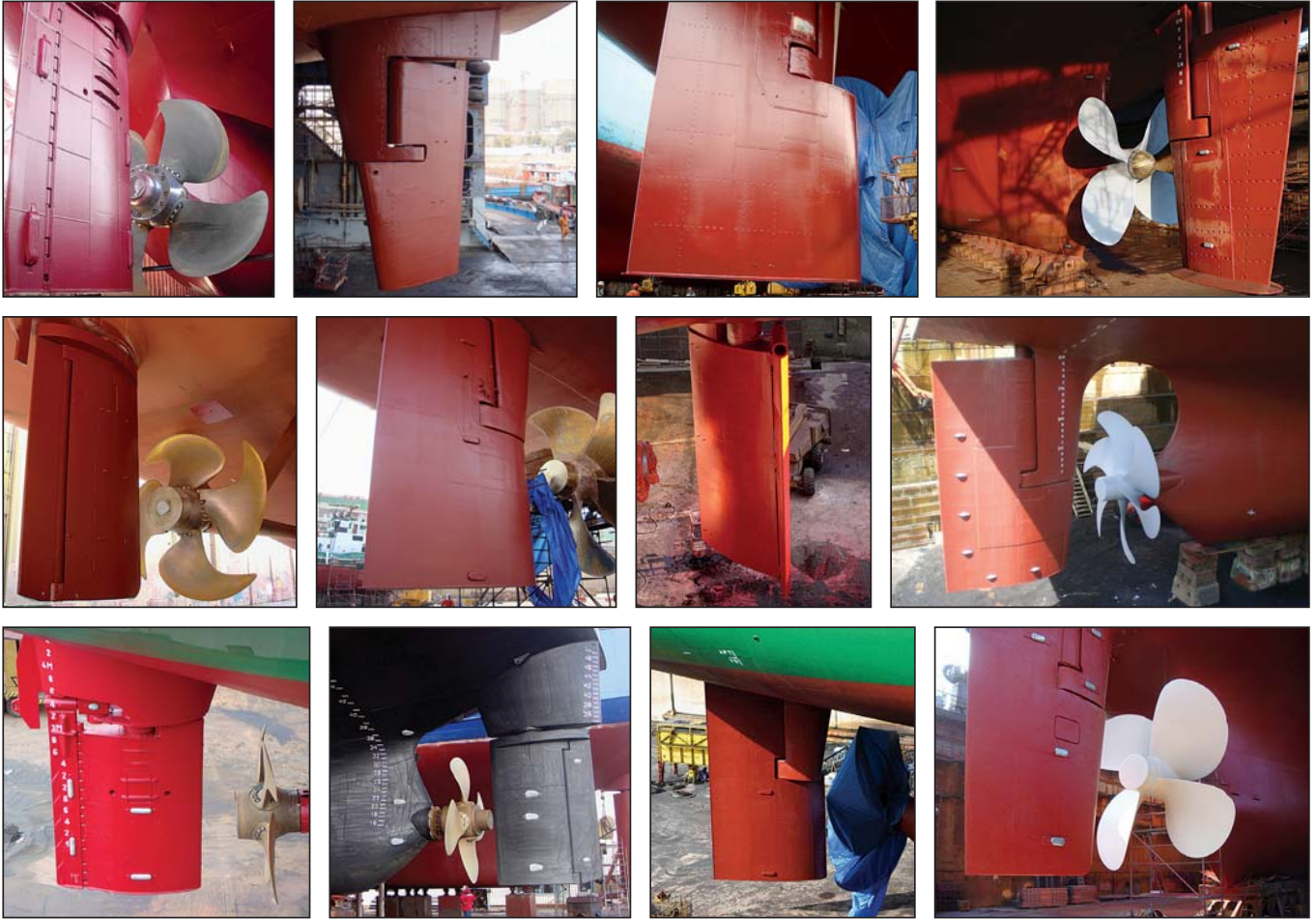
NEWS

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The only coating that offers lasting rudder protection



Ecoshield gives a very thorough and lasting defense against cavitation and corrosion damage for a ship hull's entire service life.

The coating equally provides the rudder with an impenetrable protective layer while its flexibility enables absorption of the forces that are produced by cavitation. This prevents the damage normally caused

by this phenomenon.

Without proper protection against cavitation and the resulting erosion and corrosion damage, the financial consequences can be severe.

By removing the existing paint layers and applying Ecoshield on the rudder we can break the never ending cycle of painting, suffering damage, having

to perform extensive repairs in drydock followed by a full repainting, again and again.

With an Ecoshield application no full repaint will be needed during drydocking. Ecoshield is guaranteed for ten years. At the most, minor touch-ups will be required.

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ECOSHIELD®
THE DIAMOND STANDARD IN STEEL PROTECTION

Canadian operators opt for mechanical and environmental protection

O*céan Taiga*, North America's most powerful ice-going tug nearing completion at the Industrie Océan shipyard in Ile-aux-Coudres, QC, will feature the Ecospeed coating system. The application follows the operational success of the hard coating applied in 2012 to Groupe Océan's 60t bollard pull ice-going tug *Océan Raymond Lemay*. With *Océan Taiga* Ecospeed has been applied to nine vessels of this owner.

Océan Taiga, the second 100t bollard pull ice class 1A Super FS escort tug, will join first of class



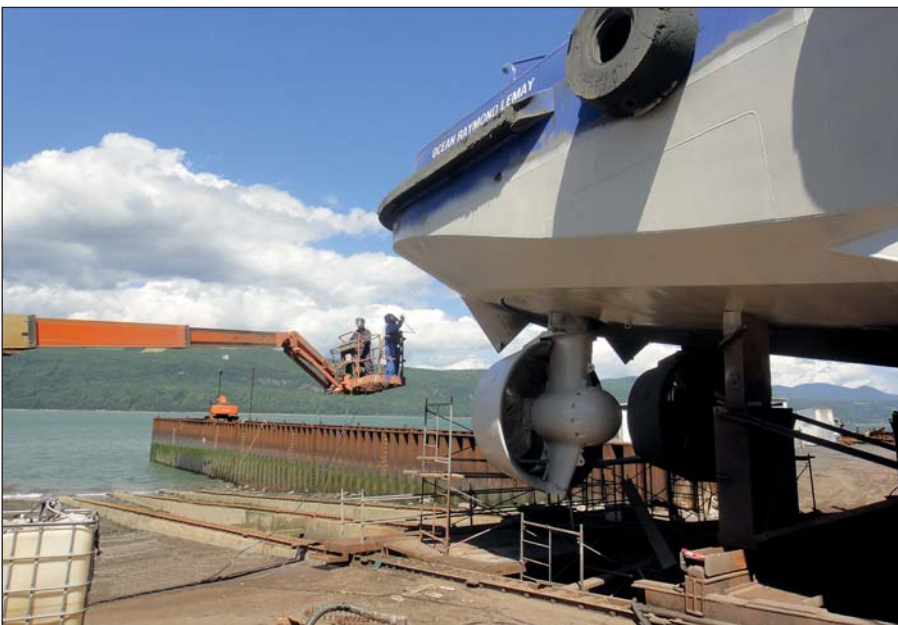
TundRA 100 sailing in icy conditions.



TundRA 100 with Ecospeed glassflake, ice abrasion resistant coating on hull.



Ice-going tug Ocean Raymond Lemay after application.



Application of tug Ocean Raymond Lemay in 2012.



Groupe Ocean shipyard at Isle-aux-Coudres, Québec.

Océan Tundra, which was coated in 2013 with Ecospeed. Subsea Industries will also apply the advanced hull protection system to the existing *Océan Ross Gaudreault* tug, at Groupe Océan's shipyard in Quebec.

David Flood, Managing Director, Jastram Technologies, the commercial representative for Subsea Industries in Canada, said: "Subsea Industries has had a successful relationship with Groupe Océan, resulting in Ecospeed applications to nine vessels in its fleet. Its first experience with this coating on the *Ocean Raymond Lemay* was deemed a huge success. **When the vessel's hull was water-jet cleaned this summer after more than 60 months in service, the hull coating showed no sign of paint degradation.**"

David explained that Groupe Océan specified the coating for the largest tugs in its fleet because of its lasting performance and environmental compatibility for operations in ecologically sensitive areas.

"The owner wanted a coating solution that would not impact the marine environment," said Mr. Flood. "Chipping an Ecospeed



Ecospeed is expected to stay on for the life of the hull.

hard coating almost never happens but when it does, there is no environmental damage, no sediment pollution.”

Manuel Hof, Production Executive

and NACE Coatings Inspector at Subsea Industries, added: “Groupe Océan’s vessels operate in highly abrasive waters in ecologically sensitive areas, so it was important for the owner to have a hull coating

system that protects both the vessel and the marine environment.”

Outlining the importance of the Canadian market for Ecospeed, Manuel Hof said: “With many vessels operating in the highly sensitive areas, such as the Great Lakes, Alaska and the northwest passage, the Ecospeed hard coating is becoming the hull coating of choice meeting stringent environmental rules and regulations.”

Jastram Technologies is working on other significant Ecospeed projects in Canada, one of which is a 31,992 dwt ice-going bulk carrier. ■



Ecospeed is becoming the hull coating of choice to meet stringent environmental rules and regulations.

ECOSPEED[®]
SHIP HULL PERFORMANCE TECHNOLOGY

Record interest at SMM

The official launch last month of Ecolast, the latest edition to Subsea Industries' range of non-toxic, environmentally-safe hard coatings, resulted in swathe of interest during the recent SMM exhibition, which took place in Hamburg in early September.

"The market introduction of our new UV-resistant coating saw a number of potential customers and media representatives attend our exhibition booth for more information about our entire range of hard coatings," said Manuel Hof, Subsea Industries' Production Executive and NACE Coatings Inspector.

Tuesday and Wednesday were exceptionally busy, with representatives from various shipowners and yards requesting details about all our hard coatings. "Many of the visitors to the booth were interested in learning more about how we have managed to balance optimum energy performance with unprecedented environmental protection," said Hof.

"With a number of test plates on show at the event, we were able to demonstrate the coatings' finish and explain how this is proven to reduce drag and, subsequently, fuel consumption significantly. A number of shipowners have since contacted us for further information."

In addition to substantial shipowner interest over the course of the four-day long trade show, Hydrex and Subsea Industries' executives were also interviewed by members of the international maritime press. ■



Subsea Industries Production Executive Manuel Hof (right) explaining our range of coating systems.

6 - 9 sept 2016

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Corrosion damage repair made easy



Test plate showing the benefit of an Ecofix and Ecoshield combination.

Subsea Industries has launched a new product for filling and building up a corroded and pitted steel surface to its original form prior to recoating with Ecoshield. Ecofix is as tough as the steel itself, machinable, and can be used to repair most pitting or corrosion damage on rudders, stabilizer fins, thrusters and other underwater gear.

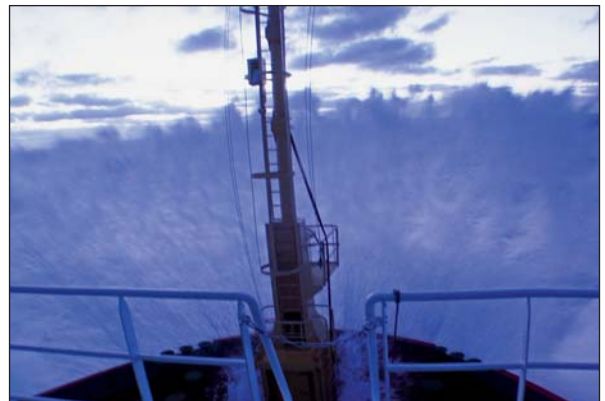
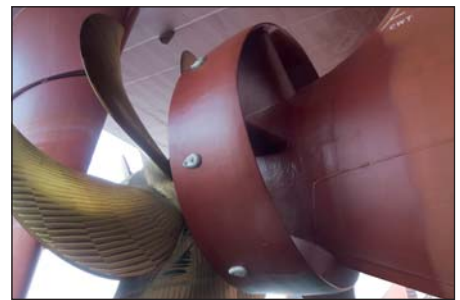
Ecofix is used in combination with Ecoshield, the ultimate rudder protection coating. When a rudder or other piece of underwater ship gear has not been properly protected, the surface will become corroded. Cavitation damage can cause severe pitting. The steel needs to be restored to its original shape with a smooth surface prior to recoating.

This is where Ecofix comes in. It is a superior, tested and proven filler. Because it uses the same basic resin as Ecoshield, the coating can be applied just one hour after the filler. The bonding and hardness are extraordinary. This is the effective alternative to metal facing or very expensive alternative fillers. And because it is part of the Eco-speed/Ecoshield family, it is fully compatible with the coating. ■

ECOFIX[®] **CORROSION REPAIR**

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SUBSEA INDUSTRIES



Subsea Industries NV, was founded in 1983 specifically to take care of the design, development and marketing of what has become an evolving line of underwater hull and propeller

cleaning equipment as well as the line of hard hull coating systems.

All products produced by Subsea Industries have the same goal in

mind: To keep the underwater part of your vessel in the best possible condition for its entire lifetime at the best possible performance.

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