

ECOSPEED®

SHIP HULL PERFORMANCE TECHNOLOGY

NEWS

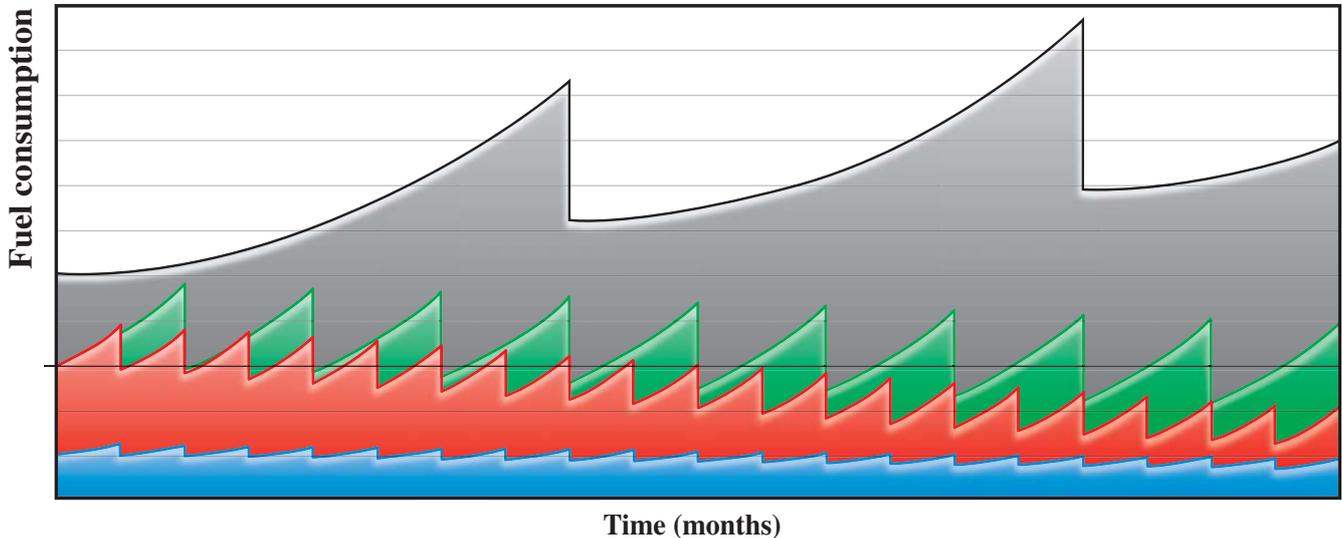
L E T T E R



Ecoshield® is the only coating that protects rudders for the lifetime of the ship

Millions in fuel savings

Development of additional fuel consumption over time



- Ecospeed with 2 cleanings per year
- Ecospeed with 4 cleanings per year
- Ecospeed with optimum cleaning intervals
- Active antifouling paints

Most ships sail with a chartering contract that includes a penalty clause if fixed distance/fuel consumption ratios are not met. However, this is unpredictable with regular paint systems and will also worsen over the years. The ship becomes more expensive and profits are reduced.

The protective Ecospeed ship hull performance technology however

not only keeps the ship's performance stable but even improves it with repeated underwater maintenance. The coating is designed to be cleaned routinely with specially designed underwater hull cleaning tools. These simultaneously clean and improve the smoothness of the paint surface. This avoids penalties as well as producing enormous fuel savings.

One major cruise line has been quoted

as saying that they are saving 10% on fuel costs with Ecospeed compared to the earlier TBT coating which they replaced. Another cruise ship found that they gained 1.5 knots over sea trials speed when they replaced their hull coating with Ecospeed.

Contact us to find out how Ecospeed can help you achieve major fuel savings.

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Ecoshield® is the only coating that protects rudders for the lifetime of the ship

Over the last few months a number of vessels have had their rudders coated with Ecoshield at shipyards in China, Singapore, Germany, Italy and South-Korea. These include several newbuild container vessels, a cruise ship and a Military Afloat Reach and Sustainability tanker (MARS). The applications will protect the rudders against cavitation and corrosion damage for the remainder of the vessels' service lives.

Some of the owners are returning customers, some are new ones, but all of them experienced the same problem: severe cavitation damage on the rudders of their vessels coated with conventional coatings. The returning customers had seen firsthand that Ecoshield solved the problem on their other rudders and wanted the same protection for the rest of their fleet. The new ones saw the excellent result obtained by other owners and chose Ecoshield to prevent corrosion and cavitation damage from reoccurring.

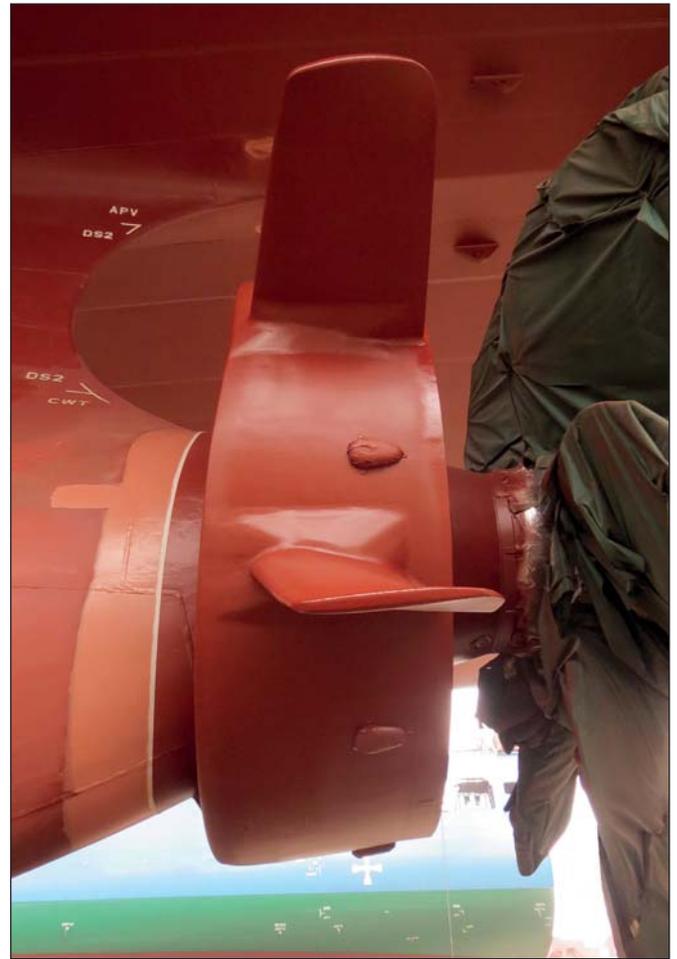
Cavitation tests in a flow channel, carried out in Grenoble, have confirmed that Ecoshield performs extremely well even under severe cavitation. The coating will prevent corrosion damage from reoccurring on an existing ship or can protect the rudder(s) of a newbuild vessel against cavitation and corrosion damage for the life of the vessel. Ecoshield is guaranteed for ten years.



Rudder after application of first Ecoshield layer.



No repaints will be needed during future drydockings.



Ecoshield coated propeller enhancement fin of container vessel.



Thruster tunnels and other running gear can also be protected with Ecoshield.

As a result of the application no re-painting is needed during future dockings.

Proof of this has been given over the last couple of years in numerous cases. Last year m/v Maersk Deva came into drydock five years after application without having to replace Ecoshield. More recently another container vessel drydocked in Shanghai. The vessel had been sailing with Ecoshield on its rudder for two years and, as expected, the coating was still in excellent condition.

Groundbreaking protection for all running gear

Besides offering rudder protection, Ecoshield is also suitable for thrusters, azimuth thrusters, azipods, thruster nozzles, kort nozzles, thruster tunnels and other under-



Ecoshield is the only coating that stays on the rudder for the lifetime of the vessel.



Application can easily be adapted to the yard's schedule.



Surface preparation of rudder prior to application.



Application of rudder horn of MARS tanker.



Only two layers of Ecoshield are required.



Ecoshield protects rudders against cavitation and corrosion damage.



Cavitation damage like this and the consequent required repair work will be a thing of the past once Ecoshield protects the rudder.



water ship gear which needs special protection from corrosion. The extra strength coating protects these areas for the service life of the ship. There is no need for recoating or major repair. For this reason the propeller enhancement fins of several of the container vessels were also coated with Ecoshield, as was the thruster tunnel of the cruise vessel.

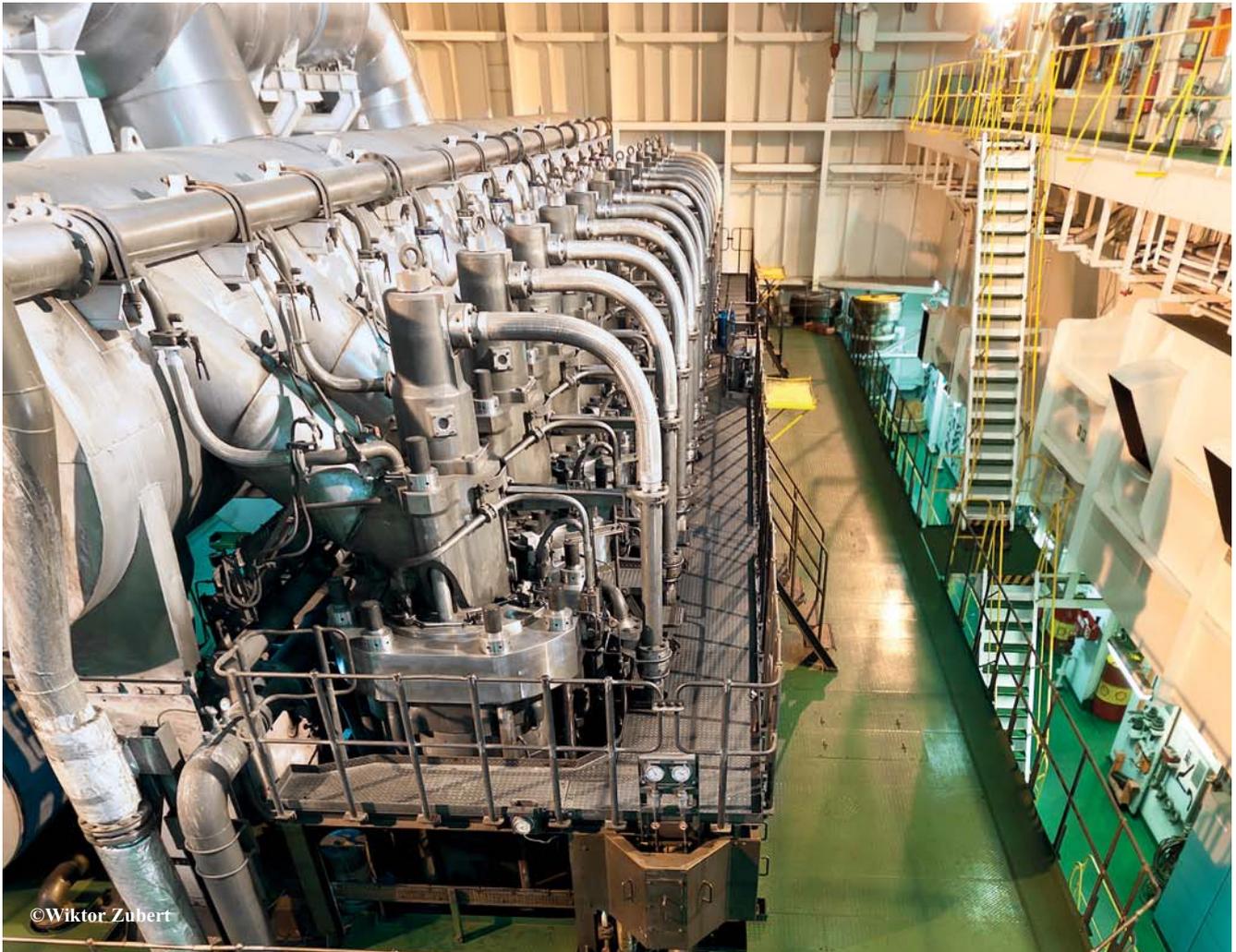
The coating can be applied at the newbuild stage or in drydock for ships already in service. Overcoating time can be as short as three hours, which means that the two coats required can usually be applied in one single day.

Evidence of the success of the product is the number of companies which began by coating a rudder on one ship experimentally and went on to coat other running gear on the same ship and the rudders and running gear of other ships.

Most are converting their entire fleet as a result of seeing the pristine condition of the coated areas after sailing for several years (some up to ten years and counting).

You can give the rudders and running gear of your vessels the same life-long protection. Contact one of our offices for more information. ■

ECOSHIELD[®]
ULTIMATE PROTECTION



The only hull performance system that gives your engine a break

Ecospeed provides your vessel with long-term protection and dramatically improves the ship's performance.

An impermeable and extremely tough coating is combined with an underwater cleaning system. This keeps the hull roughness at an optimum level and results in a

major saving in fuel.

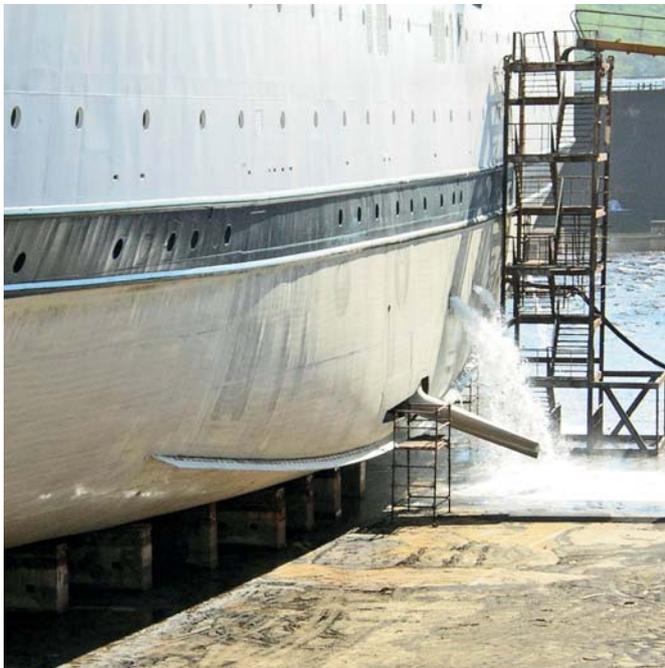
Ecospeed gives a very thorough and lasting defense against cavitation and corrosion damage for a ship hull's entire service life. The coating comes with a ten year guarantee. No repaint will be needed during future drydockings.

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Save millions in drydock expenses and off-hire time



Hull of cruise ship after 5 years with Ecospeed coating with no replacement or major repair. This is the state of the hull when the ship came out of the water; without any cleaning or touch-up in drydock.

When your hull coating never needs replacing or major repair, you can save a lot of money in drydock fees, off-hire time, materials and labor.

Most hull topcoats are designed to be replaced once or twice every five years. The full hull coating scheme has to be fully replaced every 10 - 15 years down to bare steel. Over that time period, the coating degrades and

becomes rougher until it's no longer worth trying to patch it up. And it costs you a fortune in fuel to compensate for the additional hull friction.

Imagine a coating that's guaranteed for 10 years and is expected to last 25 without replacement or major repair. A coating that gets smoother over time, not rougher.

Imagine coming into drydock after 3 or 5 years and finding that your hull coating only requires a few minor touch-ups and doesn't even need to be washed off.

Just think how much money you will save.

Call us today for a quote to convert your hull to Ecospeed or start off right, with Ecospeed, on a new build.

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