

HOW PROPELLER POLISHING HELPS PROTECT THE ENVIRONMENT

Rough and fouled propellers don't just have a financial cost. The environment pays too.

What's the problem?

Without regular maintenance, propellers are prone to build-ups of calcareous deposits, as well as corrosion and other damage. This reduces their efficiency and may require restorative processes that further impact the environment.

What's the solution?

Frequent propeller polishing keeps blades in optimal condition and prevents fouling from getting worse. As well reducing costs, regular propeller polishing is better for the environment than periodic maintenance.

THE BENEFITS OF PROPELLER POLISHING



Lower fuel use

Propeller fouling creates drag, meaning more fuel is used. Propeller polishing significantly reduces fuel consumption and the carbon footprint of marine vessels.



Regular polishing intervals

Wärtsilä Underwater Services provides regular cleaning services. Done once or twice a year, this can help to ensure optimal performance and efficiency.



Identifying blade damage

Damage to propeller blades impacts their efficiency. During polishing, our trained diver-technicians will be able to spot any damage so it can be fixed.



Pollution is avoided

We use a reclaim system when we polish propellers. This pumps particles to the surface, so harmful materials can be filtered out in a treatment plant, before the rest are released back into the ocean.

THE PRICE OF FUEL WASTE

With a severely fouled propeller, the drop in efficiency can be significant.

Vessel type: Bulk carrier	Annual sailing days: 260
Engine power (MCR): 7500kW	Annual fuel consumption: 6,739 kilotons



4%
efficiency loss due to propeller fouling

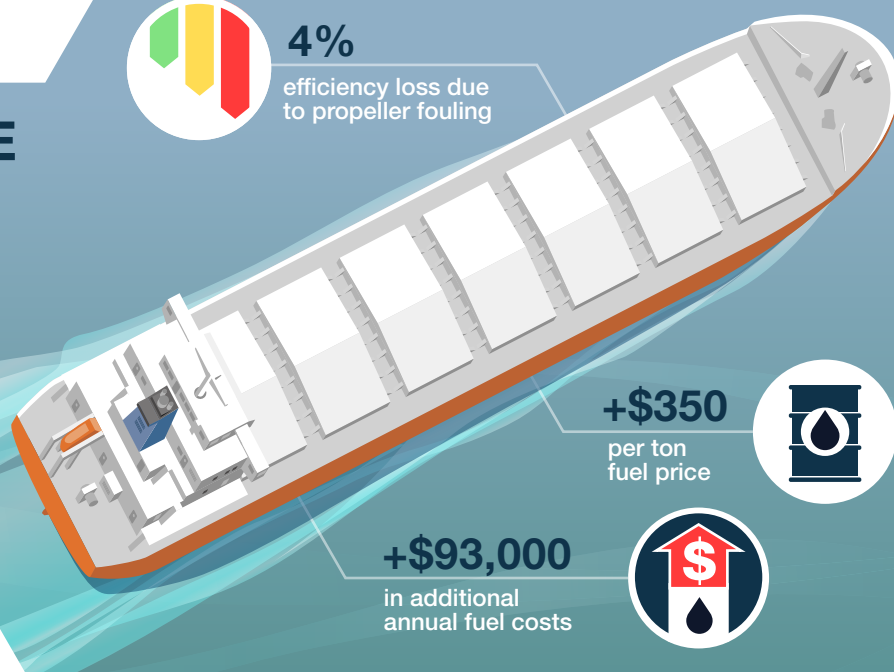
SMOOTH SAILING WITH WÄRTSILÄ UNDERWATER SERVICES



Our multi-stage polishing process creates the optimal blade surface finish. In testing, it's been shown to achieve a smoothness rating five times greater than the Rupert scale 'A' grade.



With regular polishing and detailed inspections from Wärtsilä Underwater Services, your propeller reaches its operational potential. And you can achieve further efficiency savings with additional Wärtsilä services like hull cleaning and technology such as the Wärtsilä EnergoProFin propeller cap.



Building a more sustainable future for maritime operations.

For more information about propeller polishing or any aspect of Wärtsilä Underwater Services, head to www.wartsila.com/uws