

Press release

09 January 2023

## **Scandlines reduces the energy consumption of the Rostock ferries by 11 percent**

*Scandlines has just installed new propeller blades on the Rostock ferries, thereby optimising the vessels for the current operating profile. This results in improved propeller efficiency and a saving in propulsion energy of as much as 11 percent.*

In 2016, Scandlines introduced two new hybrid ferries on the Rostock-Gedser route. The ferries are specially designed for the route and for a speed of 20 knots with three engines in operation: two on the centre propeller and one for the hotel load and thrusters.

As part of the company's green agenda, the speed has been reduced to 16 knots and therefore only one engine is needed on the centre propeller. The propulsion machinery of the vessel is not optimised for this speed and one main engine does not have sufficient torque to rotate the propeller at the designed pitch (angle of the propeller blade). In order not to overload the engine, pitch is reduced and propeller efficiency decreases significantly.

The former centre propeller with a diameter of 4.6 metres was thus not being used optimally, and Scandlines therefore decided to replace the five propeller blades with smaller blades, so that the centre propeller now has a diameter of 4.2 metres. In addition to improved efficiency, this also reduces vibration and the risk of bottom damage.

With a crossing time of two hours, Scandlines reduces the propulsion energy and CO<sub>2</sub> emissions by 11 percent thanks to the new propeller blades.

### **New centre propeller blades for the Scandlines Rostock-Gedser-Rostock hybrid ferries:**

Before: Centre propeller with a diameter of 4.6 metres

Now: Centre propeller with a diameter of 4.2 metres

Number: The centre propeller has a total of five blades

Weight: Each blade weighs 1,223 kg

Propulsion energy saving: 11 percent

CO<sub>2</sub> reduction: 11 percent



### **About Scandlines**

*Scandlines is a modern and innovative ferry operator with a green vision for the future. We have a proud culture based on strong German-Danish cooperation and maritime history dating back to 1872.*

*Scandlines operates two ferry routes with high capacity and frequency. Six of our ferries are hybrid ferries, and two are furthermore fitted with an innovative rotor sail – and that contributes to making our ferries greener.*

*Our core business is to provide an efficient and reliable transport service for both passengers and freight customers. The focus for all our activities – on board the ferries as well as in our BorderShops – is to give our customers a great experience.*

*With more than 38,000 departures on seven ferries, Scandlines in 2021 transported over 3.6 million passengers, 950,000 cars and around 720,000 freight units on the routes Puttgarden-Rødby and Rostock-Gedser.*

Read more about Scandlines at [www.scandlines.com](http://www.scandlines.com). High-resolution press photos can be downloaded [here](#).

### **Press contact**

Anette Ustrup Svendsen  
Head of Corporate Communications  
Mobile: +45 26 777 000  
Email: [anette.ustrup.svendsen@scandlines.com](mailto:anette.ustrup.svendsen@scandlines.com)