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**Press release**

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## Norwegian shipowner relies on digital solutions from MAN Energy Solutions

**MAN Energy Solutions' latest propulsion and emission technologies, combined with its data-driven service, PrimeServ Assist, and digital platform, MAN CEON, support Norwegian Odd Lundberg in pursuing environmentally-friendly fishing**

MAN Energy Solutions has announced a new end-2-end reference for its digital service offerings within the key fishing segment. Norwegian trawler/purse seiner, 'Odd Lundberg', is a 70-metre vessel owned and operated by the business of the same name.

Built in 2019, the fishing vessel features an MAN propulsion package, including a four-stroke L32/44CR engine, an MAN TCR20 turbocharger and an MAN SCR (Selective Catalytic Reduction) system, backed up by the MAN PrimeServ Assist data-driven service solution enabling real-time, remote monitoring on the MAN CEON application. A combination of intelligent analytics and MAN experts monitor the propulsion system in real time to detect any emerging issues. Any such issues immediately have their root causes assessed and a solution proposed to Odd Lundberg. To save time, MAN collaborates remotely with the vessel's chief engineer where possible.

Stian Lundberg, Chief Engineer at Odd Lundberg, said: "We chose MAN Energy Solutions as our solution provider, because of the reliability of their technology and their high quality in data-driven services. What I like most with the PrimeServ Assist service is that the MAN team is helping us monitor the systems via MAN CEON, and making fault finding much easier and less time-consuming, especially for less obvious things. This means that the engineers on board can contribute the saved time to other value-adding tasks of their job."

Per Hansson, MAN Energy Solutions, Head of Group Digital, said: "MAN's digital backbone, MAN CEON, helps PrimeServ engineers to address the particular challenges of the fishing business through maximising the reliability and availability of the engine, whilst facilitating 'green' fishing with the smallest CO<sub>2</sub> footprint and lowest exhaust-gas emissions. This fits well with Odd Lundberg's mission and vision to provide customers with the environmentally-friendly catching and fresh delivery of fish."

### Highly efficient propulsion with digital solutions

The MAN solution of combining engine and turbocharger with an SCR system ensures compliance with emission regulations and efficiency-optimised operation through a closely integrated control system that coordinates all MAN components. Its feedback system balances engine and SCR output and efficiency, such that engine performance is not impacted by the SCR system, which itself consumes as little urea as possible.

Stefan Eefting, Head of MAN PrimeServ in Augsburg, said: “We have delivered an integrated and optimised system solution to Odd Lundberg. The control system enables us to optimise fuel consumption and urea usage while remaining within emission limits and providing the expected engine performance. During operation, the PrimeServ Assist engineers are continuously evaluating and offering advice to optimise engine and SCR efficiency and reliability for Odd Lundberg’s specific operating profile.”

One such example was when remote analysis of machine data detected an irregular SCR performance. Engineers at MAN’s Remote Operation Centers quickly located the problem and advised the Odd Lundberg’s crew on how to fix the problem.

### **MAN CEON and PrimeServ Assist**

The new, digital MAN CEON platform intelligently collects and evaluates operating and sensor data, enabling real-time monitoring of marine or power-plant engines, turbines and compressors. The MAN CEON application visualises data and information from MAN machinery and its operational environment, and provides a wide range of analysis tools for validating existing issues.

The data-driven service solution, PrimeServ Assist, leverages the data streams of MAN CEON. With the support of monitoring and analytics functions, Experts in MAN’s Remote Operation Centers pro-actively advise them how to prevent issues ahead of time with step-by-step advice.



*The Norwegian trawler Odd Lundberg (pictured) relies on digital solutions from MAN Energy Solutions*



MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.