



Otto Wulf Reederei is a family company working in towing services, salvage and recovery work, sea transport, floating crane operations and much more for almost 100 years. The ships are operated in the North Sea area from Cuxhaven to Rostock.

Otto Wulf fleet is composed of 10 units:

- ✓ 6 tugs;
- ✓ 3 pontoons;
- ✓ 1 special vessel.



Otto Wulf Reederei experienced problems due to the quality of the fuel: the diesel was polluted with contaminants _ typically bacteria _ which consequently plugged the filters and reduced the performances of the engines.

Sören Wulf entrusted **Xbee** for a short curative evaluation. It took less than four months to solve the problem: the enzyme fuel treatment purified the diesel, cleaned up the tanks and eliminated all contaminants. This evaluation has been performed on two of the company's tugs. Both engineers onboard the ships reported the better quality of the fuel. Moreover, natural consequences of this enhanced diesel, they also observed that the fuel filters were markedly cleaner than before on one hand, and that the exhaust smokes tended to disappear on the other hand.

The next step is to evaluate **Xbee** on a third tug as a preventive treatment of the fuel.

Engines and fuels guarantees:

▫ **Xbee** is recognized by some of the most important marine engines manufacturers.



▫ On the other hand, **Xbee** respects the European regulation EN 590 Diesel norm and CSR 500 IFO 380 norm.

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