



BUGSIER

Bugsier Reederei today is part of the classic picture of most German seaports. Foremost in Hamburg and Bremerhaven the typical port-panorama includes **Bugsier** tugs and sheerlegs adding to the cities outstanding maritime atmosphere.

Operating the largest tug fleet flying the German flag the company has performed a vast number of towing jobs along the Northern European coast. In addition it provides services with salvage crafts and sheerlegs. With a fleet of efficient and powerful tugs **Bugsier** is serving the offshore oil & gas industry for decades as well as the flourishing offshore wind energy market.

The company has internationally earned an excellent reputation with executed projects on a worldwide scale. It is proud of being fully certified according to the strict guidelines of ISO 9001, ISO 14001 and Achilles; **Bugsier Reederei** is offering its customers the highest standard.

Bugsier fleet is composed of almost 40 units:

- ✓ 29 tugs;
- ✓ 5 pontoons; and
- ✓ 3 marine protection ships.



Technical characteristics of *Bugsier 21*:

- Length: 30.62 meters
- Main engines: Twin-Voith Schneider Propeller 28 G II/210
- Bollard pull: 51 tons

Technical characteristics of *Bugsier 18*:

- Length: 28.30 meters
- Main engines: Twin-Voith Propeller 26 G II/165
- Bollard pull: 31 tons

In the beginning of the year 2012, the company always being in search of new technologies and better maintenance for its fleet, **Jürgen Hinrichs** decided to evaluate the **Xbee** fuel additive in one tug: the *Bugsier 21*.

After about one year of using an enhanced diesel oil, the results are convincing: the engines are clean, filters are clean too, a lot less carbon deposits in the cylinders, etc.

The decision is now taken to use **Xbee** in the whole fleet to offer a top clean fleet of modern tugs to **Bugsier Reederei**'s customers.

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.

Bugsier Reederei

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