A streamlined, cost-effective, environmentally compliant solution

**Wärtsilä Airguard two pipe system**

Ship operators that are looking to meet environmental guidelines whilst managing costs effectively only have to look towards the Wärtsilä Airguard two pipe system. As an alternative to using environmentally acceptable lubricants (EALs), it removes the oil-to-sea interface.

- Which means you can meet VGP2013 regulations and reduce CAPEX and OPEX costs.
- No need to remove the propeller shaft for installation.
- Keep your engine room clear with the streamlined auxiliary system and reduced piping.
- Reduced installation scope means less time in dry dock.
- Enabling you to save more on (OPEX, CAPEX) investment, installation and power consumption.

**Environmental compliance with an oil lubricated seal**

Our Wärtsilä Airguard two pipe system has been designed to enable environmental compliance with an oil lubricated seal.

- Based on the original Wärtsilä Airguard design, our new version can be retrofitted into vessels or installed on new builds, with no need to remove the propeller shaft during installation.
- You can enjoy a seal with longer life and enhanced security, that can be installed simply and efficiently. So you can get back on to the water in no time.

**Use your existing auxiliary systems**

- Improved seal lubrication and cooling with the internal oil circulator.
- Oil circulator enables higher performance and an increased safety margin.
- Extra reliability and operational security.
- Enables the use of an additional standby seal, with safe return-to-port functionality.

**The innovation of the two-pipe system**

- Enables you to save more on (OPEX, CAPEX) investment, installation and power consumption.

**Wärtsilä Shaft Line Solutions**

Equipping customers for the modern world

- 100+ years' experience of designing, manufacturing and servicing shaft lines (products, services, integrated systems) for the marine markets.
- Operating in 75 countries – in-country and global support.
- Our core values: lifecycle efficiency, risk reduction, environmental leadership and design excellence.

Solutions to support the shipping industry

wartsila.com/ shaft-line-solutions