

Low sulphur fuel nozzle

Ensure a service life of 8,000 running hours with the low sulphur fuel nozzle, engineered to withstand the increased thermal stresses and temperature fluctuations inherent in operating on low viscosity fuels such as LSFO and VLSFO.

As the maritime industry transitions to alternative fuel oils to comply with environmental regulations, operators may encounter new technical challenges. One such challenge is that low viscosity fuel oils can cause greater temperature fluctuations during thermal cycles between combustion and fuel injection. These repeated cycles cause nozzle materials to expand and contract, increasing the risk of fatigue and microcracking.

To address these challenges, Everllence has developed the low sulphur fuel nozzle, a robust fuel injection nozzle engineered to maximize durability when operating on fuels with sulphur content below 0.50%. Designed to withstand extreme temperature variations, this enhanced nozzle ensures safe and reliable engine performance with a service life of 8,000 running hours when operating on low viscosity fuels such as VLSFO, LSFO, and bio-fuels.

Upgraded design

The low sulphur fuel nozzle is crafted from specialized materials, engineered to withstand the extreme temperature variations. It retains the same design and spray pattern as the original nozzles, making it fully interchangeable and allowing operators to switch seamlessly between the standard and low sulphur fuel nozzle, depending on the fuel in use. Installation is quick and simple, performed by the vessel crew during a regular overhaul with no Everllence PrimeServ attendance required.

Complete retrofit package

The low sulphur fuel nozzle comes with a complete retrofit package that includes a new spindle guide and support from Everllence for the amendment of the IMO NOx Technical File, ensuring full compliance.

The solution is also a TRUST component (Transparency, Reliability, Unity, Safety, and Traceability). This features Everllence's unique marking with a 2D data matrix code and serial number, ensuring guarantee traceability.

Please contact your Everllence PrimeServ office for more details.



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Secure a service life of 8,000 running hours

Key benefits

- Ensure a service life of 8,000 running hours when operating on low viscosity fuels such as VLSFO, LSFO, and bio-fuels
- Fully interchangeability and simple switching between the standard alloy-coated fuel nozzle and the Low sulphur fuel nozzle, depending on the fuel in use
- Enhanced engine durability for operations on low sulphur fuel combustion
- Quick installation by the crew during regular overhaul. No Everllence attendance required
- Great return on investment

Scope of supply

- New spindle guide including the low sulphur fuel nozzle
- Amendment to the Technical File (amendment to IMO NOx TF)

Applicable to

All Everllence B&W two-stroke engines

More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

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