

ADERCO L1050 / LUBRICITY IMPROVEMENT ADDITIVE

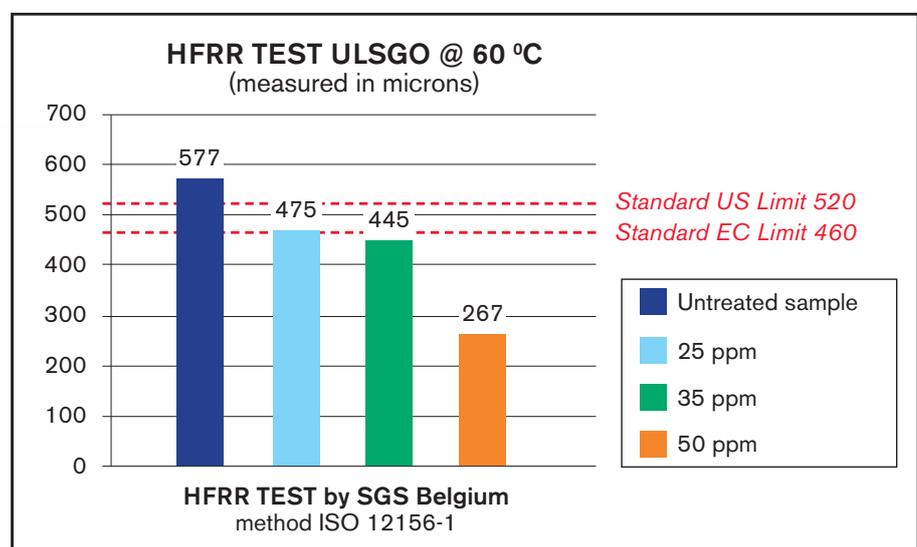


The primary purpose of **ADERCO L1050** lubricity improver is the separation of moving surfaces to minimize friction and wear on fuel lubricated parts like fuel pumps and injection systems. Unlike earlier generation products available on the market, **ADERCO L1050** has been developed to address specific problems of the marine industry. The additive also overcomes certain undesirable effects associated with earlier products such as solubility, stability and incompatibility.

ADERCO L1050 is a real solution to problems encountered with low-lubricity marine fuels:

- Risk free for the engine
- Reduces likelihood of unexpected vessel stoppage
- Protects fuel pumps and injectors
- Protection in the event of problematic fuel
- Protects surfaces against corrosion
- Avoid unnecessary stress and wastage

ADERCO L1050



Regulations and Deadlines

DATE	AREA	SULPHUR LIMIT
Present regulation	Baltic Sea, North Sea, English Channel	1.00%
Effective August 1st 2012	200 nautical miles off the coast of USA and Canada	1.00%
Effective January 1st 2015	All ECA areas	0.10%

IMO PUBLICATIONS

Fuel Lubricity

Diesel fuel lubricity is the characteristic of diesel fuels to provide sufficient lubrication to protect moving parts within fuel pumps and injection systems for reliable performance. Unit injector systems and in-line pumps are actuated by cams lubricated with crankcase oil and have minimal sensibility to fuel lubricity. However, rotary and distributor type pumps are completely fuel lubricated, resulting in high sensitivity to fuel lubricity. The use of low-lubricity fuels in these kinds of pumps leads to premature wear and sometimes to complete failure. Today, low fuel lubricity is associated with low-viscosity fuels, such as No.1 diesel fuel, kerosene and ULSD.

Experience has shown that it is very rare for a naturally high-sulphur fuel to have poor lubricity, although most studies show relatively poor overall correlation between sulphur content and lubricity. However, there is evidence that the typical process used to remove sulphur from diesel fuel (hydrotreating) also reduces the compounds responsible for the lubricity of the fuel (polyaromatics and nitrogen/oxygen compounds).

ADERCO L1050 has the following features and properties:

- 100% vegetal derivative product
- Highly concentrated (typical dosage: 1 litre for 30 tons of fuel)
- Non-hazardous
- Non-restricted for transport (flash point: 100 °C min.)
- Ashless
- Metal free
- Excellent solubility and compatibility with gas oil
- No formation of troublesome gum deposits
- Compatible with all other Aderco products



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