



Diesel Fuel **Preventing Degradation**

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PREVENTING DIESEL-FUEL DEGRADATION

LubeCorp Diesel Fuel Conditioners stabilize diesel fuel and prevent deterioration of the fuel.
(Moisture is the real culprit in biodegradation).

DEGRADATION CONTROL.

Climate plays a very large factor in the quality of diesel fuel and affects such things as moisture content and the resulting fuel deterioration, among others.

MOISTURE CONTROL

Moisture is the biggest problem, so LubeCorp chemically breaks down the H₂O molecule and then burns it off as combustible hydrogen in the fuel. In this way the water is eliminated, and fuel-burn is enhanced at the same time.

NOTE: When water droplets are unmodified by LubeCorp's chemistry, they may harm the injectors by injector-tip explosion as the large drops turn to superheated steam, as happens when water is not controlled in the diesel fuel.

As a point of interest, Shell has been doing the same thing with their 'water-contained' diesel fuel, where they deliberately inject very small water droplets into the diesel fuel and market as such to enhance power. It works because the same principle is applied.

ANTI-BACTERIAL CONTROL

LubeCorp also directly inhibits biodegradation with anti-bacterial control chemistry which is safe and combusts completely without increasing harmful exhaust emissions. We do NOT utilize 'biocides':

1. Biocides are harmful pesticides which by nature tend towards carcinogenicity.
2. Biocides decrease combustion, and increase harmful emissions from the exhaust stack.

LubeCorp controls Moisture and Anti-Bacterial growth through chemistry, eliminating sludge, blackened fuel, foul odours, corrosion, and plugged filters.

MOISTURE NOTES:

With temperature fluctuation, condensation is always an issue, especially when fuel is stored in bulk tanks. Refineries put demulsifiers in diesel to assist the repelling of water out of the fuel but once the fuel is in your tank, water will begin to accumulate.

Water in fuel leads to several problems: such as potential harm in the fuel system through corrosion and harmful steam in large water droplets; and in providing a breeding environment for bacteria. In warm weather, biodegradation occurs as bacteria live in the water at the bottom of a tank and feed on the fuel. Sludge, blackened fuel, foul odours, corrosion and plugged filters are the by-products of fuel biodegradation.