

Why Do I Need a Diesel Stabilizer?

When storing diesel fuel, most everyone is familiar with the adverse effects of water or growth in their bulk tank. Are there other factors or elements that cause diesel fuel to degrade? The simple answer is YES.



Storage life of any fuel is dependent on the storage conditions. Untreated diesel fuel can be expected to stay in a usable condition for approximately 12 months, when stored at an ambient temperature of 68°F; and 6-8 months when stored at temperatures exceeding 85°F.

WHY?

As diesel fuel gets older fine sediment and gum forms in the diesel, brought about by the reaction of diesel components with oxygen from the air. Oxidation eventually leads to fuel darkening and stratifying (layers in fuel/separation). Sediment and gum will block fuel filters and burn inefficiently in the engine, often leading to carbon and soot deposits on injectors and other combustion surfaces. Let's discuss **conditions that accelerate the aging process**, additives to counteract this process and **suggestions for extending storage life**.

CONDITIONS that accelerate the aging process - and how to counteract them.



Zinc, copper or metal alloys containing them (such as brass) react with diesel fuel to form unstable compounds. This can be counteracted by a metal deactivator, which neutralizes the catalytic effect of diesel fuel coming in contact with the metals or metal alloys.



Oxidation, another factor, is when small amounts of air attack reactive compounds in the fuel, causing it to destabilize and corrode. **Rust** (the most common form of corrosion) happens due to water and oxidation. Rust can cause holes in the tank walls but the more immediate danger is contamination of fuel. These particles can plug filters and increase fuel pump and injector wear. All **Opti-Lube Diesel Fuel Additives** contain an anti-oxidant, which work by stopping the oxidation process, reducing the formation of sediment and gum.

DEALER SPOTLIGHT



HOW LONG HAVE YOU BEEN AN OPTI-LUBE DEALER?

Addicted has been a dealer for 2 years.

WHAT IS YOUR #1 SELLING ITEM? XPD Quarts are our number one selling item.

HOW DO I ORDER FROM YOU? By phone or directly at the Shop: 1889 Dewar Drive, Rock Springs, WY 82901

HOW LONG DOES IT TYPICALLY TAKE TO PROCESS AN ORDER? Orders are processed immediately.

WHAT BENEFITS HAVE YOU SEEN USING OPTI-LUBE IN A PERSONAL OR COMPANY VEHICLE? We have seen a 2-3 mpg increase in our 2012 Ram 3500 using XPD year round.

SUMMARY We started in our garage about 10 years ago doing small repairs, performance items and building Cummins engines. About 6 years ago we moved into our location that we are at now. We now do all repairs small and large on Dodge, GM, and Ford from brakes to all out Pulling or Drag race engines and all other Performance items in between. We use Opti-Lube in all of our personal and company vehicles including our Super Stock pull truck Addicted. Thanks Opti-Lube for a great product that works great too!



(Continued) **EXTENDING STORAGE LIFE**



COUNTERACTING THE AGING PROCESS

Empty Tanks

Tanks should be emptied and cleaned at least once every 10 years, or more frequently if you have a major contamination. Establish a system for filtering the contents of the main storage tank through a recirculating filter system (filters should be checked and changed at regular intervals). Make this automatic and reduce problems by removing sediment and gums.

Replenish Fuel Stock

in the winter season November – March. This will ensure the fuel will not cause wax problems no matter what season it is used. Verify the winter fuel matches the cloud point for your area to avoid gelling caused by wax drop out in cold weather.

Use and Replace Fuel

if possible, plan to use the fuel within one to three years and replace it with fresh fuel.



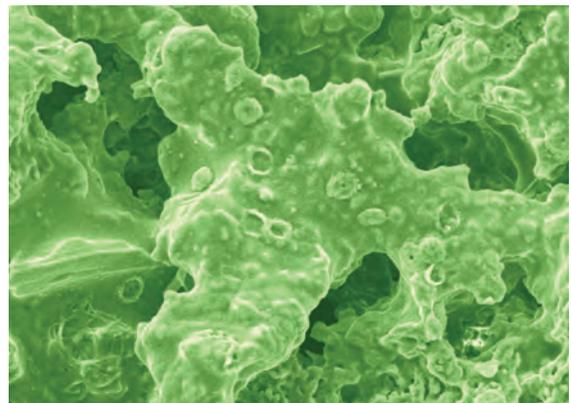
Fungicide/Biocide

Many of our customers wonder why Opti-Lube does not offer a fungicide/biocide. Though these chemicals are sometimes necessary there are serious disadvantages of using them continually.

Fungus and bacteria grow at the water fuel interface. Fungicides and biocides work by stopping fungus and bacteria from growing in the fuel, however if fungus is already present a ‘Kill dose’ is required.

Disadvantages of Biocides/Fungicides include:

- Handling and mixing is hazardous because the chemicals are poisonous.
- For a *‘kill dose’*, killing the fungus can lead to build up of dead matter which will block filters and cause fuel oxidation. The tank should be emptied and cleaned after a *‘kill dose’*.
- Maintenance doses are effective but no more so than regular water draining. **Opti-Lube Diesel Fuel Additives** focus on prevention. **Opti-Lube** does not offer biocides and fungicides because they are so dangerous to handle and can have too many negative side effects. **Opti-Lube Diesel Additives** strive to help you prevent the need to ever use a biocide or fungicide.



BACTERIAL GROWTH