Product Review

Maximizing Engine Life by Selecting the Right Diesel Fuel Treatment

MaxR 300 Diesel Fuel Enhancer

When working with diesel fuel for the newer diesel engines, the following points should to be considered when trying to maximize engine life;

The quality of diesel fuel is the second most contributing factor to engine failure. From the minute diesel fuel is refined it starts to deteriorate. The older the fuel, the less effective it performs, as it loses elements such as Cetane and rust inhibitors. Also, each time the fuel is transferred it gains contamination.

The amount of deterioration of the fuel is not what makes the life difference; it is the way the deterioration is treated. Every application is different. To get the best performance available, specific information should be known about the engine, as follows;

- Engine application
- Model number
- Engine operating temperature
- Power cycles

These factors vary substantially between backup generators, transport trucks, mining & construction equipment, school buses, and other diesel engine applications.

Traditional Diesel Fuel Formulas

Most diesel fuel blenders use one formula to fit all applications. Does this approach work? Partially, but at what cost to effectiveness, including engine life, fuel systems life, MPG and emissions?

Most blenders create formulas to treat diesel engine fuel applications the same as non-diesel engine fuel applications. The formulas are the same for a B10 or B20 applications as they are for non-bio diesel applications. This does not result in the best fuel treatment and engine operational efficiency.

MaxR300 Diesel Fuel Treatment Customization

MaxR300 can be customized to address the specific needs of your fleet. To do this we need to know the operational parameters of your typical type of equipment. It helps to have fuel samples, not taken from the pump, but from the very bottom of the tank. We can then determine what needs to be done to treat the emulsified petroleum. If the emulsified petroleum is not treated it will be stirred up each time fuel is added to the storage tank. Emulsified petroleum is caused by bacteria at the static fuel line level in the tank. It looks like black tar and contains rust, iron, water, and various kinds of dirt and grime that will damage the fuel system.

By using a customized fuel treatment, MaxR300 will be able to control the emulsified petroleum, converting the particle size down to 4 microns, and therefore holding them in suspension. This method allows the particles to pass thru the fuel filters, turning them into energy and keeping the tanks clean. This maintains all levels of fuel quality. All new engines can ingest 4 micron particle without damage.

If you are trying to reduce overall operational cost, the bottom line is that proper fuel treatment management is a measurable cost effective start.

It is important to remember that a diesel engine will run longer if you control the following four major elements:

1. Operator
2. Quality of diesel fuel
3. Quality of in oil crankcase*
4. Coolant

We can custom blend MaxR300 to improve engine life, reduce maintenance, reduce replacement of fuel injectors and fuel filters, improve engine efficiency, stabilize the diesel fuel, reduce emissions and improve the miles per gallon of the vehicle or equipment.

***Quality of Oil in Crankcase**
Another MaxR product can substantially improve the quality of your crankcase, transmission, and engine oil, MaxR200. This product increases HP, eliminates oxidation (rust), reduces metal-to-metal contact, increases fuel efficiency and lowers emissions. … read more

MaxR 200 Anti-Friction Lubricant