

Features and Benefits

✓ **Eliminates Water & Particles**

Water will always be present because of the heating and cooling of components in an engine. Diesel fuel used as the source of combustion contains sulfur. Small amounts of fuel will pass by the piston rings and end up in the oil. The sulfur will mix with the water resulting in sulfuric acids. Using the Kleenoil Filtration System will remove all water down to less than 0.05%, reducing the formation of sulfuric acid that will cause accelerated wear to engine components.

✓ **Removes Dirt and Contaminants**

Dirt and wear metals will always be present in Hydraulic and Engine oil. The reasons that most fluid changes are done is to get rid of the dirt and contaminants. Conventional fluid filtration components will filter the fluid down to approximately 25-40-micron in size. Accelerated wear and damage occurs somewhere around 3-6-micron. Using the Kleenoil Filtration System you will filter the fluid down to 1-micron (3 absolute) in size reducing the chance of wear and ultimately reducing the number of engine failures and rebuilds that would have needed to be performed during the life of the unit.

✓ **Doesn't Remove Desirable Elements**

Certain components are purposely placed in lubrication oil to make it effective. Some of the additives include dispersants, detergents, oxidation and rust inhibitors, pour-point depressants, metal deactivators, and anti-foaming and gelling agents. While the Kleenoil Filtration System is removing dirt, contaminants, wear metal particles and water; it is not removing the oil additives needed for continuous use.

✓ **Extends Drain Intervals**

Because of the reasons mentioned above, oil can be run longer as it is kept clean, free of water and still maintain its additive package. Proper oil analysis will indicate the life of the oil but on average the drain is extended up to 10 times what it would be without the Kleenoil Filtration System.

✓ **Reduces Time Needed for Service**

Changing the Kleenoil Filtration Cartridge requires much less time than what is required to perform a conventional full fluid change. Simply remove the lid from the container, remove the old cartridge and install the new cartridge and seal. All this can be performed in less than 10 minutes and without the worry of spilling oil and disposing of contaminated fluids.

✓ **Continuous Protection Provided**

The Kleenoil Filtration system is installed to filter the fluid whenever there is oil pressure. Once the engine or the hydraulic pump is activated and there is fluid pressure, the fluid is continuously passing through the densely wound filter cartridge. The cartridge is wound with pure coniferous long fiber wood pulp paper. This design allows the water to be extracted from the fluid and still allows the larger oil molecules to pass through unchanged. The dirt and wear particles are trapped in the filter giving you a continuous self-contained recycling system.

✓ **Good for the Environment**

Because the fluid is being recycled inside of its own application, longer drain intervals can be realized. Oil is a finite resource that one-day will run out. Keeping the fluid running longer reduces the amount of oil you will have to purchase throughout the now extended life of the unit.

Disposing of the used contaminated oil also creates a risk to the environment. Proper disposal methods are needed to safeguard the environment for our children. Reducing the amount of fluid that has to be disposed of is one way of reducing the impact on the already taxed environment.

Whenever a full fluid change is required to be done there is always a risk of spills and ground contamination. Reducing the number of full drains reduce this risk dramatically.