



CONKLIN CUSTOMER CONNECTION

The latest in Vehicle Products News

THE VALUE OF USED OIL ANALYSIS

Getting the best performance from your cars, trucks, and equipment is everyone's goal, as well as prolonging the life of your vehicles. Used oil analysis is a tool that can be utilized to determine oil change intervals, help resolve existing problems, and detect minor issues before big problems occur.

ALS Tribology, the laboratory that tests oil submitted using Conklin's Oil Analysis Kit, looks at three general criteria when analyzing oil to determine its health: Machine Wear, Contamination, and Degradation. These three factors are all indicators of lubricant health and wear over time.

Machine Wear – ALS looks at the oil sample to determine metal wear contaminants that can come from metal-on-metal contact in the crank case, transmission, and other areas. Presence of metal shavings may indicate a loss of friction-reducing properties in the lubricant – causing the metal-on-metal contact. Depending on the amount of metal shavings, and the size of metal particles in the lubricant, ALS may recommend changing fluids immediately and resampling your oil at a shorter interval.

Contamination – Contamination of lubricants occurs when water, dirt, fuel, or antifreeze mix with oil. Water in oil is typically a sign of an improperly functioning PCV valve, leaking gaskets or seals. It could also be due to short trips that do not allow the engine to reach normal operating temperatures which in turn does not allow moisture to be removed from the crankcase. Antifreeze in oil is an indication of a leaking head gasket or other more serious problems. Silicon (dirt) in the engine oil is typically a sign that the air intake filter needs to be changed or that there are possible leaks in the vacuum line.

Degradation – Due to the prolonged exposure to high temperatures, friction, and shear stress, lubricants naturally will degrade over time. Conklin's Convoy® Parasynthetic Motor Oils are formulated with additives to resist these stresses, but overtime those additives will also break down. ALS runs analysis to measure the oil viscosity to ensure it is still at the recommended levels, as well as looking at levels of sulfur and nitrogen in the lubricants. Presence of high levels of nitrogen and sulfur indicate nitration or sulfation – degradation processes that reduce the lubricating properties of oils.

When purchasing a **Prepaid Oil Sample Bottle** from Conklin, it is important to remember to purchase an **Oil Sampling Pump** (which includes instructions) and **Specialized Plastic Tubing** to aid in removal of fluid. This can be used to pump oil from the dipstick or coolant reservoir into the sample bottle. All three of these products (Prepaid Oil Sample Bottle, Oil Sampling Pump & Instruction Sheet, and Specialized Plastic Tubing) are part of Conklin's Oil Analysis Kit. When submitting oil analysis to ALS, postage can be affixed to the sample bottle and mailed; however, Conklin highly recommends shipping the samples in an envelope or package to ensure delivery.

Did you know that oil analysis is not only for engines? It can be used for transmissions, differentials, gear boxes, and more. Don't wait for problems to occur before beginning to have oil analyzed. Start early and get a base line for wear metals, so that early detection of potential problems is possible.



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CONKLIN GEAR OILS FOR OVER-THE-ROAD TRUCKS

Conklin's wide variety of Vehicle Products extends in many directions – whether you're driving an auto, tractor, boat, or other equipment. However, some products are easily overlooked.

Take over-the-road trucks as an example. Likely the first products people think of for these type of trucks are the fuel additives **4-Power® D** and **Diesel Plus®**. In reality, there's more!

In addition to these fuel-saving products, the following three gear oils for use in transmissions and differentials provide exceptional benefits for individuals with over-the-road trucks. Utilize the **Conklin 50th Anniversary Lubricants Recommendations Guide** to determine the proper gear oil for your application.

- **Gold Guard Plus® SAE 50** is Conklin's extended-drain, heavy-duty manual transmission fluid. This full synthetic formula offers the best in shear stability, volatility, and all-temperature performance.
- **Gold Guard Plus® 75W-90** is Conklin's full synthetic, extreme-pressure gear lubricant formulated to exceed the demands of light and heavy-duty usage. Gold Guard Plus protects gears from a variety of surface stressors, including abrasion, corrosion, fatigue, and adhesive wear, while offering seal protection and compatibility.
- **Top Spec® 80W-140** is Conklin's full synthetic, extreme-pressure gear lubricant for high temperature-applications. Top Spec also protects gears from a variety of surface stressors, including abrasion, corrosion, fatigue, and adhesive wear, while offering superior seal protection and compatibility.



Learn more about these and other Conklin Vehicle Products by visiting
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