LUBER-FINER® UNIVERSITY

FUEL YOUR BRAIN

HYDRAULIC FILTERS TRAINING MODULE
Sometimes the difference between profit and loss depends on keeping operating costs low and running efficiently. Reliable hydraulic filtration reduces wear, guards against system failure and promotes maximum equipment uptime and performance.
Hydraulic systems will always need protection from harmful contaminants in the operating fluid. Luber-finer’s line of hydraulic filters delivers the quality and reliability of 75 years of filtration excellence.

Luber-finer hydraulic filter media remove harmful particles and contaminants in the hydraulic fluid with minimal pressure drop. The hydraulic fluid path, which is altered by continuously changing its direction as it flows through the intricate maze of filter media, is highly effective at trapping contaminants. The Luber-finer hydraulic filter line is available for on-road vehicles, construction, mining, agricultural and industrial markets.
Luber-finer hydraulic filters are constructed using the highest quality components. Each component must meet the most stringent criteria to maintain collapse strength, filtration performance and hydrostatic burst strength.

Luber-finer filters are designed to meet system requirements for service life, efficiency and contaminant removal. Because test specifications used for Luber-finer filters include SAE and ISO test procedures, equipment manufacturer warranties always remain in effect when Luber-finer filters are used.
The Luber-finer hydraulic filter offers quality construction, reliability and performance. Featuring an all-metal housing to withstand higher-pulse fatigue life and to provide high burst strength, Luber-finer hydraulic filters offer a high-durability design for longer filter life.

The high-performance media in Luber-finer’s hydraulic filters are designed to trap microscopic contaminants and deliver up to 99% efficiency. The filter’s Molded O-Ring provides easy installation and removal.
Minimizing maintenance costs requires contaminant control practices that identify specific problems and provide guidance in choosing the appropriate filter. Genuine contamination control relies on efficient and dependable filtration. Filtering out the particles large enough to be harmful to your system prevents damage and allows the longest possible filter service life.

Contaminants cause more than 70% of all hydraulic system failures. Hydraulic system efficiencies may be compromised long before there is recognition that something may be wrong. If not controlled, contaminants and particles that are too small to be seen can reduce hydraulic system efficiency.
For example, contaminants that become trapped or stuck in equipment clearances, can cause excessive wear and internal leakage of fluid. Less fluid contained within the pump, motor or cylinder will decrease efficiency and ultimately, cause hydraulic system failure.

Fluid contamination also decreases the ability of valves to control flow and pressure accurately while wasting horsepower and generating excess heat. Sticking parts due to sludge or silting and the collection of fine particles in critical areas will impair proper hydraulic system operation.
All Luber-finer hydraulic filters, which use ISO procedures to quantify/qualify its filters, use high-efficiency media specific to the application. Luber-finer’s high efficiency filters provide real opportunity to positively affect profitability.
Hydraulic fluid contaminants are so small that they are measured in microns, which are millionths of an inch in size. Luber-finer’s hydraulic filter efficiency is measured by the contamination levels going into and coming out of the filters. Also referred to as Beta Ratio, this formula for calculating the particle-removing efficiency of a filter media gauges the relationship between upstream and downstream particle counts.
Calculating Beta Ratio is easy. Here is an example of how Beta Ratio filter efficiency is calculated. Let’s say a filter test shows 1,000 particles at 15 microns or larger upstream and 50 particles at 15 microns or larger downstream. To calculate the Beta Ratio, simply divide the upstream count (1,000) by the downstream count (50) to get a Beta15 ratio of 20.
Hotline, Full Web and Mobile Support

- Call the filter hotline at 1-800-882-0890
- Online filter look-up capabilities on our website www.luber-finer.com
  - Includes installation instructions
  - Distributor locator
  - Product images
  - Service minutes and change interval recommendations
- Android App and Mobile site parts look-up capabilities