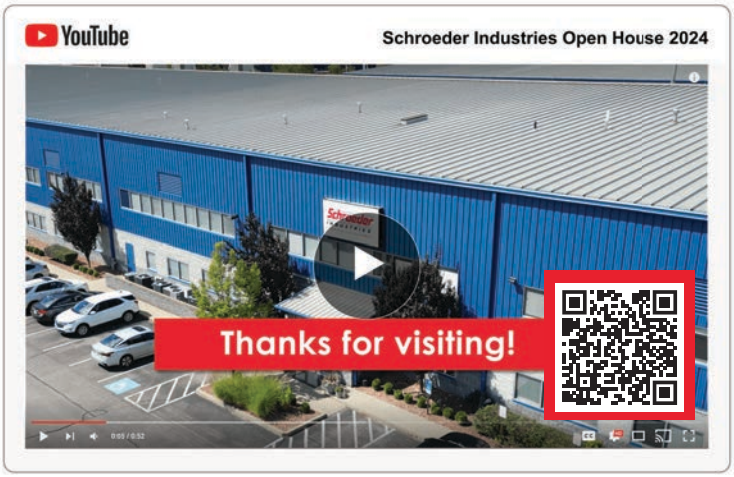
Energy Sustainability
Delivering Responsible Energy Solutions

Monthly Newsletter
Volume 26

Welcome to the twenty-sixth volume of our Schroeder Industries Monthly Newsletter!

Thanks to all who attended or assisted with our 2024 Open House!

So much has changed at our Leetsdale facility this year, and we're looking forward to big things in the future. If you missed the Open House and are interested in a tour of our recently expanded facility, reach out to your Schroeder Industries sales contact.



Taking 'System Health' Literally

Choice of filtration technology is sometimes treated like an afterthought, which can put equipment at risk.

Contamination can be devastating to critical machinery. It's estimated that over 70% of hydraulic system failures can be attributed to fluid contamination, either within the hydraulic fluid or the fuel source.

In this edition of the Schroeder Newsletter, we encourage you to think about hydraulic machinery like a living system instead of just a complicated piece of metal—because, when you think about it, a piece of machinery has a surprising amount in common with a living organism!

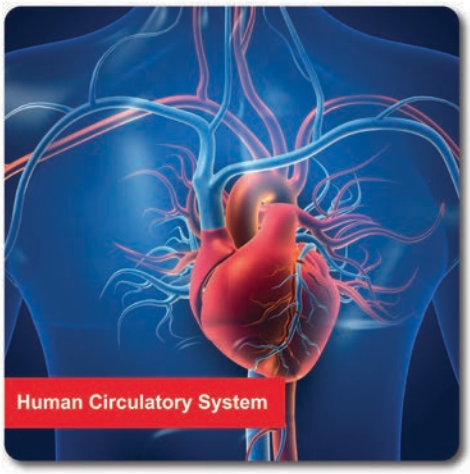
When you draw parallels between contamination of machine fluid with infection in a body, the importance of filtration becomes extremely clear.

What do the human body and a hydraulic system have in common?

At a very basic level, a hydraulic or fuel system is not unlike a human circulatory system.

The pump/motor is like a heart, pushing hydraulic fluid or fuel throughout the system. Hydraulic hoses and fuel lines stand in for veins and arteries.

The filtration system, then, is comparable to a person's kidneys and liver, filtering contamination (toxins) out of the machine's 'blood'


Human Circulatory System

A person with underfunctioning kidneys or liver damage will become severely sick, and the same goes for a hydraulic or fuel system with inadequate filtration!

To prevent catastrophic equipment failures, expensive damage to critical components, costly downtime and more, the approach to overall system health begins with filtration.


Hydraulic Solenoid Valves

Fluid Analysis: Blood Testing for Machines

Routine bloodwork is a common way to diagnose diseases, monitor an ongoing condition, or detect warning signs of potential health issues. Fluid testing does the same thing for equipment!

Some of the most common causes of equipment inefficiency, failure, and reduced lifespan of components come down to contaminants and varnish that build up in the hydraulic or fuel system. These contaminants travel throughout the system's 'body,' damaging components and shortening their lifespan.

A robust fluid testing program helps monitor important changes in the fluid condition, allowing preventative maintenance measures to stop critical levels of contamination before the equipment is affected.

Schroeder Industries' Oil Analysis Program helps keep you on top of your system health!

With advanced laboratory testing, easy digital report tracking through the Fluid Care Portal, and personalized support from the experts in fluid condition, the Oil Analysis Program is like a virtual doctor's visit for your equipment.

Basic Analysis Kit

Our most cost-effective testing option, focusing on the most essential fluid condition factors.

Premium Analysis Kit

Achieve deeper understanding of your fluid condition with a more expansive testing package.

Advanced Analysis Kit

Our most comprehensive testing kit, for the most advanced insights into your fluid condition.

Learn more about the Oil Analysis Program

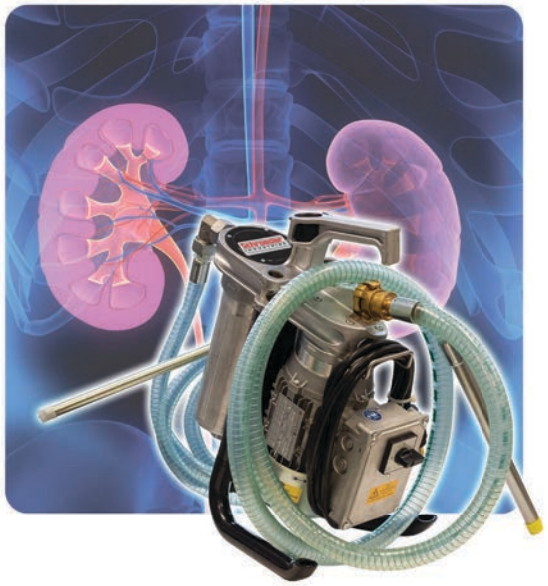
Kidney Loop Filtration

Speaking of kidneys, that's exactly where offline filtration got its most common nickname!

Offline filtration, or kidney loop filtration, works a bit like dialysis for machines.

These external filtration systems are 'plugged' into the fuel or oil system and utilize an independent pump and motor to filter the fluid while the machine is offline. They are an extremely helpful supplement to the machine's in-line filtration, as well as effective in the conditioning of bulk stored fluid.

Schroeder Industries offers a broad variety of highly customizable filter carts, stationary kidney loop systems, ultra-mobile handheld filtration rigs, and other solutions for offline filtration.



View Our Selection of Offline Filter Systems

Varnish and Cholesterol

You've probably been told by a doctor at some point to watch your cholesterol—and if a hydraulic system could go in for a checkup, it would probably be told to mind its varnish.

Varnish is a sticky, sludgy byproduct of oil degradation that can accumulate throughout a hydraulic system, resulting in restricted flow, stuck valves, and other issues. Sounds familiar, right?

Oil analysis can detect varnish and other early indicators of oil degradation, and specialized varnish-busting filtration systems like Schroeder's VEU Compact can keep the system working optimally.

Varnish can build up throughout a hydraulic system, just like cholesterol in the human circulatory system—and the negative consequences are similar, too. **Make sure your filtration arsenal is equipped to make varnish vanish!**

Varnish buildup on a filter element

Varnish deposits on hydraulic valve component

Varnish layer on reservoir interior walls

Learn more about varnish & varnish removal solutions

Schroeder News

Boost Your Equipment Hardiness Through Cutting-Edge Fluid Testing

Regular fluid analysis is a lot like getting regular bloodwork: It's a great way to get insights into the health of your system and address problems before they become critical. Learn more about Schroeder's new Oil Analysis Program!