

Diesel filtration with HYDAC

Prevent downtime, reduce emissions – before the fuel reaches the engine



Diesel storage tanks & filling stations: preventive diesel filtration is the solution

In mining, special environmental requirements apply, as dirt and water cannot be prevented from entering the diesel fuel during storage and transfer to the engine. Contamination in the tank leads to increased component wear and loss of efficiency in the diesel engine.

The result of poor fuel cleanliness:

- Production performance decreases
- Maintenance costs increase
- In the worst case, there is a risk of machine failure

If a mining excavator fails, the entire logistics chain comes to a standstill. This also causes major economic problems, as the production failure and repair costs put a heavy strain on the owner's budget.

New engine technology and strict emissions regulations

Diesel fuels are having to meet stricter standards, as new emissions regulations are being introduced and engine power is increasing. Solid particle contamination needs to be lower, and water content in the fuel must be reduced. Achieving the standard diesel cleanliness of max. ISO 18/16/13 calls for continuous filtration and dewatering of the fuel at every point in the transport chain.

Biodiesel increases cleanliness requirements

While fuels used to be entirely mineral-oil-based, it is now normal for up to 30% of the fuel to be biogenic. However, higher levels of biogenic content in the fuel mean that water ingress can be catastrophic for fuel usability. Bacteria can form, known as diesel bug. These bacteria can cause major problems throughout the entire system, and it is essential to remove them, or to find what is causing them to grow and eliminate it.

Failure prevention & CO₂ reduction with Low Viscosity Housings (LVH)

HYDAC supplies filters specifically for the entire diesel fuel logistics chain, including on-board solutions for heavy mining machinery. The first-class removal of solid particle contamination and free water with the HYDAC LowViscosity Housings LVH prevents costly downtime and eliminates the need for premature, cost-intensive diesel disposal. At the same time, avoiding all metal content in the filter element materials enables significant reductions in CO₂ emissions, in both manufacture and disposal.

Application example: Mine operator with heavy mining equipment

- Downtime for all the machinery resulting from fuel contamination: 1,500 hours / month
- Total downtime costs: EUR 1,500,000 / month

Using HYDAC filtration technology enables the mine operator to reduce downtime by up to 43% and significantly lower operating costs.



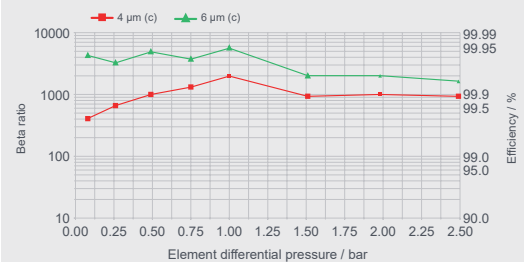
Interested?

Contact us
HYDAC Filter Systems GmbH
Phone: +49 6897 509-01
E-mail: filtersystems@hydac.com

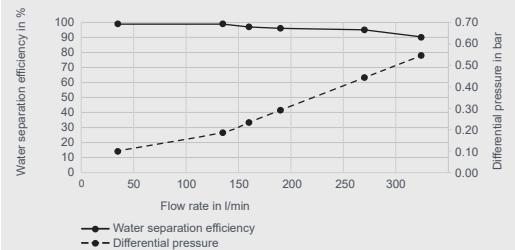


Thorough – Reliable – Constant

■ Particle separation rate >99.9%



■ Water separation rate up to 99%



How the LVH works

Step 1: Solid particle separation in the LVH-F:

Optimicon® filter elements achieve high separation rates in a single pass (high contamination retention capacity and low pressure loss).

Step 2: Water separation in the LVH-CD:

Optimicon® dewatering elements reliably eliminate large volumes of water with high separation rates.



LowViscosity Housings LVH



LVH-F 130 in mining tanker