Filtration Group application example – Factory Equipment

Centralized cooling lubricant treatment / AF 179 S

Initial situation

The **MAHLE GmbH** in Rottweil is a manufacturer of pistons for commercial vehicles and automobiles. The **centralized cooling lubricant treatment** for **40 machine tools should be automated.**

The cooling lubricant which is used for **production of truck pistons requires a fine filtration under high pressure sphere**. The pre-filtration is proceeded with the help of a modified FAUDI filtration plant from the company Mayfran. In doing so, the cooling lubricant has to be free from steel particles.

Solution statement

- Application of a combination of four automatic backflush filter of the type AF 179 S for the fine filtration of low viscosity fluids
- The fine filtration is set behind the gravity separator
- The facility is a **self-cleaning system** with **durable filter elements** made from metal in **highest Filtration Group-Quality**
- The pulse-cleaning of the automatic filter is done without interruption of the filter- and production process



Customer value

- Highest compatibility with existing systems and flexible integration into the production process
- No waste of filter material due to the self cleaning functionality of the automatic filter
- Long durability of the automatic filter elements (more than 4 years) by using premium materials
- Increased filter life and reduced maintenance intervals over the lifecycle of the whole production plant
- Increased filtration rate



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Factory Equipment

Challenge

The **cooling lubricant consists of 8% oil**. In addition to that, the self-contained supply of band filter should be completely replaced by the new centralized cooling lubricant treatment system.

Downstream to the FAUDI band filter plant there is an **AF 179 that ensures a filtration rate from < 40 \mum. Thanks to the omission of process interruptions and the significantly longer maintenance intervals**, the new system works **highly cost-efficient**.

Technical Data

Flow rate: 9.000 l/min

Operating pressure: 3 - 5 bar

Viscosity: 2 mm²/s

■ Temperature: 20 - 40°C







