Filtration Group application example – Factory Equipment

Oil mist separation – LGA 600 FU

Initial situation

A **well-known manufacturer of Diesel-systems** produces in Homburg/Saar among others fuel injection pumps for passenger cars.

The components are produced on different machine centers. In the **molding machines** oil is mainly used as cooling lubricant for the tools. Due to the **high rotary speeds the oil evaporates** in working room of the machine centers. The oil mist needs to be evacuated from the machine and the employees need to be protected against **breathing in the harmful oil aerosols**.



Solution statement

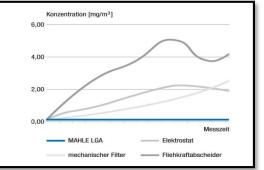
The **Filtration Group LGA oil-mist separators** have been installed, piped, configured and launched on multiple machine centers by the Filtration Group service engineers.

Result

- A significant increase of the separation rate was achieved and documented
- Secured separation and recovery even of finest oil droplets by the nearly maintenance free coalescer principle
- Protection of employees and equipment thanks to the compliance to prescribed TA-Luft values
- A report in the internal BOSCH company newspaper shows the new solution with all involved employees

Customer value

- Extension of the service interval from 3 to 12 month
- Reduction of machine downtime to a necessary minimum
- Reliable protection of the employees' health
- Complete recovery of the separated oil
- Nearly no wasted material in the LGA-system
- The issue of **intensive cleaning efforts** for the removal of oil films in the production hall and in the machine centers has be **eliminated completely**



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Factory Equipment

Challenge

At the machine centers of the manufacturer there are generally **electrostatic-separation systems** installed. The air together with the oil mist is evacuated from the machine working room, but the separation **result was not satisfactorily**.

Issue

- Oil drops deposit in the factory hall and on the machines
- The machine operators and other employees have to breath in harmful oil aerosols
- Very short maintenance intervals for the electrostatic separation system (4x per year)

Target

- Increased separation rate and significantly reduced remaining oil content in the air
- Compliance with the prescribed values of the 'TA-Luft'
- Reliable complete solution with low maintenance requirements
- Assured protection of employees and equipment





