

FILCOM Application example – Technology

Oil temperature regulators in use in cargo and pushback tractors



Technology

Initial situation

Goldhofer is a global manufacturer of heavy-duty and special transport vehicles headquartered in Memmingen, Germany. The Airport Technology division focuses on the specific requirements of airport logistics. Conventional and towbarless aircraft tractors, cargo and baggage tractors in various performance classes, and aircraft recovery systems reliably and efficiently master high-frequency logistics processes at airports around the world.

Goldhofer

Solution statement

- The oil temperature regulator is one of the most important control valves in machines, vehicles or plants. Its task is to open the oil circuit at a defined temperature and to keep the oil temperature low via the oil cooler.
- Goldhofer Airport Technology GmbH also uses BorgWarner (formerly WAHLER) brand oil temperature regulators in its baggage tractors to keep the transmission oil in the vehicles within the optimum temperature range.

Customer value

- Checking the oil temperature regulator prevents overheating of the vehicles. This danger also exists if the temperature regulator does not open fast enough. Then the large oil circuit does not open and overheating of the vehicles is inevitable.
- Therefore, it is important that this component is regularly checked for function during maintenance work to ensure the operational safety of the vehicles.
- Characteristics of high-quality oil temperature regulators are a solid construction, high control accuracy, low pressure losses and safe control function, independent of static and dynamic oil pressure.



Challenge

For small airports specializing in private jet handling, flexible equipment is important – safe and reliable in all functions. The cargo and pushback tugs of the „SHERPA“ family offer highest efficiency as well as powerful and reliable support for a wide range of tasks on the airport apron. The vehicles are designed not only to be used as cargo tugs, but also to move aircraft up to 50 t MTOW (maximum take off weight).

All „SHERPA“ models convince with very quiet operation and can effortlessly handle up to 50 t towed load even on 3 % gradients. The different drive trains allow speeds of up to 30 km/h.

