

APPLICATIONS

- Gas turbine lubrication systems
- Steam turbine lubrication systems
- Process compressor lubrication systems
- Hydraulic supply lines
- Umbilical systems
- Clean-up of new oil prior to first use

FEATURES

- Engineered workpacks ensure all components are effectively cleaned
- Operational fluids used for flushing to eliminate any cross contamination
- Electronic particle counters to ensure accurate and repeatable results

BENEFITS

- Provides a level of cleanliness to global standards (ISO)
- System is ready for operation upon completion

PROCESS SERVICES | INDUSTRIAL CLEANING

Hot oil flushing

High levels of cleanliness using hot turbulent flow regime



Overview

Many process systems require a much higher level of cleanliness than others. Visual cleanliness is not sufficient. In these cases, 'Hot Oil Flushing' techniques can be used.

The technique involves the circulation of fluids in turbulent flow ($Re > 4000$) through fine filters. The turbulent flow maximizes the loosening of fine materials and the filtered circulation progressively removes them.

This service is not simply to cleanup process systems, it is also necessary to clean up new oils and fluids from suppliers. These new fluids are not sufficiently clean for these critical process systems.

We employ dedicated 'Hot Oil Flushing Units' that have been developed over many years to provide effective reliable operation. A unit consists of a heated 'buffer tank', dedicated pumps; flow, pressure and temperature measurement, and general filters to protect it.

Fine filtration can be specified to either 6 micron or 3 micron in dual cartridge filter pots to enable continuous operation even while filters are being changed out.

Electronic particle counters measure the number of particles within discrete particle size ranges and give a direct readout of the achieved cleanliness specification. A microscope and a manual particle count system can be used as a backup to the electronic system.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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