



# ON-SITE **LUBRICANT MAINTENANCE**

FOR EXTENDED LUBRICANT AND EQUIPMENT SERVICE LIFE

# MACHINES ARE NOT THE ONLY ONES REQUIRING MAINTENANCE

During industrial equipment operation, **lubricating oils** can often become contaminated even within planned and technically reasonable change intervals. Contaminants in turn can reduce service life of lubricant charges and machines alike.

**Metalworking fluid** charges containing water are particularly prone to microbiological damage, so, without exception, they all demand regular maintenance to ensure longer service life and perform their jobs to perfection.

**By the maintenance of lubricants, it is possible to preserve good oil and emulsion quality in the long term!**

Our on-site lubricant maintenance service enables us to test lubricant charges and identify and then correct any key problems without the need to stop production.

Even restoring charges to their original condition is possible with the help of detailed laboratory WearCheck analysis of lubricants.



# THE OIL AND EMULSION MAINTENANCE PROCESS, ITS RESULTS AND



# MOST FREQUENT PROBLEMS AND HOW TO MANAGE THEM

**Problem:** **Lubricant contamination level is higher than the acceptable maximum**

Problem cause: Solid particles enter the charge which may even cause equipment failure

How to manage: Eliminate contamination by filtering the lubricant

**Problem:** **Viscosity is inadequate**

Problem cause: Foreign substances enter the system, ageing, deterioration of mechanical stability or use of wrong lubricant

How to manage: Refresh or completely change the oil

**Problem:** **The lubricating oil contains water**

Problem cause: Mechanical failure (e.g. heat exchanger leakage)

How to manage: Remove water from the oil promptly after eliminating the defect

**Problem:** **Oil floats on the top of the emulsion**

Problem cause: Slide way oil leakage, mechanical failure

How to manage: Remove foreign substances using a wet-operating industrial vacuum cleaner

**Problem:** **The emulsion has an offensive smell and is corrosive**

Problem cause: Bacterial or fungal contamination which reduces the pH value of the charge.

Due to this, the emulsion can cause corrosion and may cause skin irritation.

How to manage: Improve the emulsion with follow-up additives (bactericide, fungicide, pH conditioner)

## D IMPACTS

### DIRECT RESULTS

- Regular and professionally sound maintenance of lubricants optimally leverages their technical performance
- Lubricant loads that are continuously kept in good condition reduce the rate of wear and tear on equipments as well as the frequency and degree of malfunctions



### ADDITIONAL IMPACTS, BENEFITS

- Oil drain intervals can be increased without risk; machine service life increased
- Reduced number of stoppages; decreased maintenance needs; better use of production capacity

### DIRECT RESULTS

- Metalworking fluids kept in good condition will extend tool edge life spans
- Metalworking fluids kept in good condition will contribute to the impeccable quality of manufactured products
- Metalworking fluids kept in good condition do not cause healthcare problems and reduce the environmental burden



### ADDITIONAL IMPACTS, BENEFITS

- Time and money spent on sharpening tools and purchasing new tools reduced
- Scrap ratio reduced; production efficiency improved
- Better workplace conditions; fewer people on sick leave; less waste emulsion generated due to longer emulsion lifespan

**Our lubricant services:**

- ✔ Lubrication technology consulting
- ✔ WearCheck oil and machine diagnostics
- ✔ Lubrication assessment
- ✔ Lubrication technology audit
- ✔ Fluid management
- ✔ Training courses

**YOUR PARTNER:**

