

Lubrication Management by Southern Lubricants

We can deliver the following beneficial results for your company:

- Reduce your lubricant and chemical usage through optimised change intervals and the supply of fit-for-purpose products
- Lower lubricant costs by rationalising your lubricant & chemicals inventory & improving storage procedures
- Increase productivity through fewer lubrication-related problems
- Manage waste efficiently through effective avoidance, treatment and disposal
- Ensure compliance in critical areas, such as food grade lubricant management and COSHH

Lubricants and other process fluids can have a major impact across all parts of a manufacturing business – especially the bottom line – even though they rarely require significant expenditure. We ensure best-of-class Lubrication and Fluids Management by having our specialists working full-time on the customer's site to manage fluids from procurement, storage, treatment and application through to their disposal.

Specific ways that we Deliver Value through our fluid solutions are:

- Reduced storage costs from Inventory rationalisation
- Optimised lubrication regimes and reduced product usage
- Reduced product wastage through spill and leak reduction
- Extended component life
- Reduced machine tool downtime
- Reduced likelihood of contamination of product
- Extended coolant and wash chemical solution life
- Fewer rejects and less scrap
- Greater utilisation of recycling facilities to reduce consumption
- Reduced disposal costs by on-site treatment of waste process fluids
- Secure product contamination control, avoidance & treatment
- Compliance with environmental legislation

As a leader in lubrication with a thorough understanding of oil product technology, our teams have proven experience and expertise to understand the impact that fluids have on your processes



Knowing which contaminants, whether chemical substances or metallic/physical debris, are present in your lubricant oils provides you with important decision-making information. This specific knowledge, based on regular periodic sampling, allows you to save time and money by:

- Installing bearings, spares, etc only when needed
- Changing lubricants at appropriate, convenient intervals, only as needed
- Planning your maintenance activities to minimise shutdowns
- Eliminating unnecessary spares replacement
- Minimise emergency / unplanned shutdowns

Southern Lubricants will work with you to design an effective Oil Analysis programme, ensuring that we:

- Include the important hydraulic systems, compressors, gear boxes, pumps and internal combustion engines
- Take representative samples at appropriate intervals
- Manage the Oil Analysis operation effectively
- Report the results to you directly
- Advise on indications of machine wear, lubricant deterioration, and potential problems



Southern Lubricants work with you to ensure that Vibration Monitoring results are transformed into:

- Maintenance Savings
- Less Shutdown Time
- Increased Productivity

- Offer both routine and complex, sophisticated Vibration Monitoring
- Provide Data Capture, Analysis, Diagnosis, and Prognosis (likely outcomes)
- Partner with you, on-site, to secure significant operational benefits

Most mechanical faults with rotating equipment induce vibration, e.g. unbalance, misalignment, looseness caused by poor assembly or wear, deterioration of bearings, wear of gear teeth, etc. Vibration monitoring involves the periodic measurement of machine vibration, usually measured on bearing housings or from machinery supervisory panels outputs.



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Vibration monitoring can detect a wide range of failure modes:

- Bearing defects
- Misalignment
- Imbalance
- Mounting Soft Foot
- Mechanical Looseness
- Resonance
- Bearing pre-load and incorrect assembly
- Gear mesh abnormalities
- Journal bearing faults
- Belt drive faults
- Pump cavitations and process flow problems
- Beat frequencies
- Single and multi-plane in-situ balancing
- Complex machine investigations and problem solving
- Turbo-machinery start-up/shutdown and troubleshooting
- Machine baselines, acceptance testing and 3rd party witnessing
- Failure investigations and warranty issues
- Structural and modal analysis investigations
- Compressor performance testing
- Machinery protection panel calibration checks

