LUBRICATION PROGRAM DEVELOPMENT

at the right time.

at the right place...

the right lubricant...

at the right time.
RULE #1:
Keep lubricants CLEAN

45% of all industrial failures are caused by particle contamination

Even if it is easy to visually keep a lubricant clean, the particles that cause the most damage are usually those we cannot see or feel while touching the oil.

“If a tree falls in the woods, does it make a sound if nobody is there to hear it?”

50%

Drum stored outside or left open

700,000$ saved over a period of 5 years

The port of Tacoma succeeded in slashing diesel engine rebuild costs by 66% on 21 straddle carriers.

RULE #2:
Keep lubricants DRY

75% of remaining useful life lost before noticing any change in oil color

The presence of water in lubricating oils can shorten bearing life down to 1% or less, depending on the quantity present.

« Water is the scourge of lubricating oils. »

Return on Investment: 662%
Discounted payback: 2 months

Investments:
- Accurate oil analysis follow-up program with aggressive contamination control targets.
- Appropriate filtration systems installation
Why a lubrication program?
- Global competitiveness
- Uncertain economic conditions
- Reliability dependency
- Costs control

Did you know that investing in a lubrication and oil analysis program is generally refunded within the first year of its implementation?

**Phase I**
- Benchmarking and gap analysis designed to compare current plant lubrication practices against what is generally considered best practices.
- Design of a roadmap to lubrication excellence by highlighting opportunities for improvement based on both observation of current practices and perceived opportunities.
- Cost-Benefit Analysis which determines wasted expenditure based on current lubrication practices, and 5-year projected savings based on a well-implemented lubrication management program. Expected timelines for instituting lubrication excellence are built into the model.

The client is scored on a scale of 0 to 10 (with 10 being considered current best practice) in each of the 12 categories shown on the left.

**Phase II**
- Onsite data collection: inspection of each piece of equipment, picture taking and identification of lubrication, oil analysis and contamination control points.
- The procedures (job plans) and engineered data (lubricant type, task frequencies, grease volumes, etc.) are be provided for each area in a standardized file to migrate the data to the customer’s lubrication scheduling, CMMS, EAM or other maintenance scheduling software.
- Validation of, and where necessary, changes to prescribed lubricant types (e.g. mineral vs. synthetic, R&O vs. anti-wear, etc.) and viscosity grades. Lubricants are described in a generic format, and, at the customer’s request, may also be described by brand.
- Complete design of a lubricant storage room including: drawings, layout, accessory storage and part numbers.

**Phase III**

**Phase IV** Re-assessment
Key Performance Indicators (KPI) are validated quantifiable measurements which reflect success in reaching the objectives fixed by an organization or department.

**Phase III**
Until the program gets fully operational, Laurentide Controls provides continuous support on:
- Lubrication Program explanation
- Review of routes and procedures
- CMMS integration
- Installation study
- Training on the best installation practices
- Key Performance Indicators (KPI) definition
- Lubrication and Oil Analysis training

**What to measure?**
- Mean Time Between Failure – MTBF (long term)
- Repair cost (long term)
- Maintenance budget (long term)
- Lubricant cleanliness (short term)

**Phase IV**
- Re-audit and gap analysis designed to compare current plant lubrication practices against the first gap analysis performed during LPD Phase I.
- Identification of the next milestones to reach in order to achieve lubrication excellence. Highlighting of the different success and remaining gaps in the process.
- Continuous improvement support provided.

**Machinery Lubrication I**
Acquire the fundamentals of lubrication and contamination control in order to implement the best practices at your plant.

**Machinery Lubrication II**
Acquire advanced knowledge in lubrication and contamination control to develop a world class program.

**Training**
Acquire advanced knowledge that will help you understand and take the best out of your oil analysis reports.

**Practical Oil Analysis**
Understand the basis of lubrication and contamination control.

Contact us so we can help you optimize your lubrication program!
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