



Condition-Based Monitoring Maintenance

Clariant Corporation – South Carolina Lubrication Program at Chemical Plant

- Reduced moisture in gear and hydraulic units
- Changed from time-based to condition-based oil changes
- Saved thousands of dollars in oil changes, equipment downtime and lost production

Customer Profile

Clariant Corporation is a chemical plant located in South Carolina. It has been an LE customer since 1980.

Application

The Maintenance Department wanted to implement best practices in its lubrication program, including changing its maintenance schedule to condition-based oil changes instead of time-based intervals.

Challenge

Clariant's Reggie Redd, who handles all lubrication for the plant, recognized the need for more efficient ways to maintain and improve equipment lubrication.

LE Solution

Helmut von Schweinitz, LE consultant, had worked previously with Reggie on Clariant's main plant hydraulic system and had already recommended the use of Monolec® Hydraulic Oil (6110). Together, they conducted an oil analysis audit on production equipment that showed in most cases the oil was contaminated by moisture, outside contaminants or both.

This audit led to further recommendations for the plant, including:

- Dedicated containers for each type of oil
- Offline filtration to filter out water and contaminants
- Adapter kits on gearboxes and hydraulics for easy hookup of filtration units
- Desiccant breathers for moisture and particulate control



Desiccant breathers & online filtering with use of adapter kits

Results

The implementation of these four recommendations, along with the continued use of the LEAPSM oil analysis program, has saved thousands of dollars in oil changes, equipment downtime and lost production. Plant personnel are now able to make condition-based oil changes, instead of time-based changes. They can add oil without opening reservoirs, and they are seeing a significant reduction in moisture in the gear and hydraulic units.

"If I have the right oil and it is clean and dry, then better equipment life will follow," said Reggie Redd of Clariant.

Other LE Products Used

In addition to Monolec 6110 and LEAP oil analysis, Clariant Corporation uses a variety of LE products in its plant operations, including but not limited to:

- Almagard® Vari-Purpose Lubricant (3751)
- Monolec® R&O Compressor/Turbine Oil (6407)
- Multilec® Industrial Oil (6803)
- Quinplex® Penetrating Oil & Lubricant (4059)



No funnels or opening gear units to add oil



Online filtering of gear units

Thank you to Reggie Redd and Helmut von Schweinitz, LE lubrication consultant (pictured), for providing the information used in this report.



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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