



Monolec[®] Synthetic Industrial Oil (9100) and AMS Filtration System

Camdel Metals Corporation – Camden, Delaware

Stokes Vacuum Pump

- Greatly reduced oil seepage and increased oil life by six times
- Lowered operating temperatures by 25° Fahrenheit
- Eliminated unplanned downtime and provided major cost savings

Customer Profile

Camdel Metals Corporation specializes in the production of seamless stainless steel coiled and straight length tubing. These tubes have been produced for numerous petrochemical applications, process construction, general control systems, instrumentation, medical, military, oil & gas, down-hole and subsea umbilical applications. Camdel prides itself on its ability to produce the world's longest continuous seamless coils, which can be in excess of 5,000 feet.

Application

A Stokes vacuum pump is used in the process furnace area.

Challenge

Previous oil life was only two weeks, and pump rebuilds were extremely time-consuming and expensive. The vacuum pump is a major piece of process equipment and when it goes down unexpectedly, major headaches can occur.

LE Solution

Chris Nowlen, LE consultant, advised Don Whitmer, maintenance manager of Camdel Metals, about the benefits of using an AMS dehydration filtration system on a vacuum pump. He told Don that by implementing this technology, he could expect to see an increase in oil life, decrease in premature equipment failure and cost savings due to longer equipment life. Chris contacted Dennis Morgan of AMS and ordered a customized 3-gpm Coalescing Filtration System for Camdel. The system was installed and put into operation in a very short time frame.



Stokes vacuum pump coupled with AMS filtration system

He also recommended LE's Monolec Synthetic Industrial Oil (9100), which is formulated to exceed all requirements for air compressors, vacuum pumps and hydraulic systems operating at, above and below normal temperatures. It contains a blend of high VI synthetic base oil and Monolec,



LE's exclusive wear-reducing additive. Its specially developed additive package, designed solely for synthetic oils, contains an anti-wear compound that acts synergistically with Monolec to control wear as pressures and temperatures rise. In addition, it contains rust and oxidation inhibitors and a foam suppressant.

Results

The new AMS filtration system, in conjunction with Monolec 9100, has been able to increase oil life by six times and pump rebuilds are now few and far in between. The use of Monolec 9100 lowered operating temperatures by 25°F and greatly reduced oil seepage.



"We saw a return on investment in a very short amount of time," said Scott Clark, purchasing agent. "The ROI has been felt exponentially for this unit."

Other LE Products Used

For its lubrication reliability needs, Camdel uses 100 percent LE products and services, including but not limited to the following.

- Almagard® Vari-Purpose Lubricant (3752)
- Duolec® Vari-Purpose Gear Lubricants (1601-1609)
- Monolec® R&O Compressor / Turbine Oils (6401-6407)
- Monolex® Penetrating Oil & Lubricant (2059) – aerosol
- LEAPSM oil analysis
- Des-Case® desiccant breathers

Thank you to Don Whitmer, maintenance manager, and Scott Clark, purchasing agent, of Camdel Metals; Dennis Morgan of AMS; and Chris Nowlen, 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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