



Multilec® Industrial Oil (6802-6803)

Erie County Water Authority – Cheektowaga, N.Y.

DeLaval Pumps

- Increased gallons pumped per kilowatt hour by 20 percent
- Extended oil drain intervals by four times
- Reduced power consumption 3 to 5 percent
- Reduced bearing temperatures by 10 to 15°F

Customer Profile

The Erie County Water Authority provides water for the Erie County area. They have been an LE customer since October of 1995.

Application

In order to process the fresh water, they use DeLaval T20-18AB model pumps with motors ranging from 600 hp to 1,600 hp.

Challenge

While using a popular commercial product, they had to change the oil every six months. The oil was not holding up, and Dan Snyder, control crew chief, wanted an oil that would not break down.

Solution

It was recommended that Erie County Water Authority use Multilec® Industrial Oil (6802-6803) for this application. Multilec 6802-6803 is a truly multi-functional, heavy-duty R & O and anti-wear industrial oil suitable for air compressors, hydraulics, bearings, industrial turbines and for R & O gear oil applications. It is compounded with premium paraffinic base stocks for greater lubricity. It has outstanding rust and oxidation resistance for the hot and damp environment associated with a water treatment plant.

Results

In the year prior to converting to Multilec 6802-6803, the Erie County Water Authority, Bell Station on the University of Buffalo Amherst Campus, pumped 1,145 gallons of water per kilowatt hour. After converting to Multilec, they have now increased gallons pumped per kW hour to 1,375. This is an increase of 230 gallons pumped per kW hour, or 20.1 percent.

Also, since changing to Multilec® Industrial Oils, they have extended their oil drain intervals to coincide with their pump rebuild schedules at two-year intervals. They are using LEAPSM (Lubrication Engineers Analysis Program) to safely monitor the condition of the oil. They have also noticed a reduction in power consumption of 3 to 5 percent, and running temperature of the bearings has been reduced by 10 to 15 degrees.

Other Products Used

- Almaplex® Industrial Lubricant (1275) is used for the electric motors.
- Almatek® General Purpose Lubricant (1232) is used as a general bearing grease.

Thank you to Dan Snyder, control crew chief, and to the local LE lubrication consultant, 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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