



Duolec® Vari-Purpose Gear Lubricant (1604)

Whitewater WWTP – Wisconsin

Gear Reducers

- **Extended oil drain intervals from 3 months to 18 months**

Customer Profile

Whitewater Wastewater Treatment Plant is located in Whitewater, Wisconsin. They service a city of 13,000 residents and a state university of 10,000 students. The plant's capacity is 3.15 million gallons per day. They have used LE products since 1997.

Application

Gear reducers power the primary and secondary clarifiers.

Challenge

They have water contamination due to condensation and being an outside operation. They have extreme temperatures that vary from 30°F to 100°F (-1°C to 38°C). By manufacturer specifications they normally drain the gear oil every 3 to 6 months.

LE Solution

Duolec® Vari-Purpose Gear Lubricant (1604) was recommended due to its exclusive wear-reducing additive, Duolec. Duolec 1604 has extreme pressure characteristics, is water resistant, and is non-foaming. With Duolec 1604 the water can be drained off, thus extending the life of the oil.

Results

The gearboxes are on two primary and two secondary clarifiers. The normal oil change interval is six months. The six-month LEAP report shows no need to drain, and they expect to extend the drain interval to eighteen months. When maintenance changes the oil it does not involve large amounts of time, but the gearboxes are difficult to change. The change to Duolec 1604 will result in one oil change in 18 months, versus three with the previous product. Duane Brown, head mechanic, says, "We believe in LE quality and the benefits their products provide."

Other Products Used

- Monolec® Hydraulic Oil (6520): hydraulic applications
- Monolec® R & O Compressor / Turbine Oil (6405): gearboxes
- Multilec® Industrial Lubricant (6805): blowers
- Monolec Ultra® Engine Oil (8800) : diesel engines

Thank you to Brad Tuttle, plant superintendent, Duane Brown, head mechanic, and to Mike Gentry, 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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