



## Esco Oil Sight Glasses

*Johnstown Regional Sewage – Johnstown, Pa.*

### *Lightnin<sup>®</sup> Mixers*

- Enabled quick, easy visual inspection of oil
- Enabled quick, easy draining of water from oil
- Safely extended drain intervals to two years

#### *Customer Profile*

Johnstown Regional Sewage, through the Dornick Point Wastewater Treatment Plant, provides service to the City of Johnstown and 19 municipalities in the townships and boroughs that surround Johnstown. The WWTP processes 15 million gallons of water a day. It has been an LE customer for more than 25 years.

#### *Application*

The plant has eight Lightnin mixers: two 20-hp, two 25-hp, two 30-hp and two 40-hp. The mixers sit on the roof of the pure oxygen reactor. Their purpose is to splash raw effluent into pure oxygen.

#### *Challenge*

The Lightnin mixers are located outside and continually exposed to environmental conditions. These often harsh conditions include rain, ice, snow, dust, wind, heat and humidity of summer, and subzero temperatures of winter. Water ingress is a constant concern. There is no quick or convenient way to monitor the oil for water contamination, short of manually opening the oil drain valve and inspecting for water.

#### *LE Solution*

David Hayes, LE lubrication consultant, recommended the use of Esco oil sight glasses. The oil sight glass is a clear acrylic cylinder that installs in the drain port of the oil reservoir of pumps, gearboxes, bearing housings and other lubrication-critical pieces of equipment. It enables continuous fluid monitoring for clarity, color, and sediment and water contamination. The drain valve allows for discharge of accumulated water.



Mike Sabo, chief mechanic electrician, was thrilled to have a simple, efficient solution for visually inspecting the mixer oil.

#### *Results*

After installing the sight glasses, the maintenance crew of the Dornick Point Wastewater Treatment Plant was able to visually inspect the oil of all eight Lightnin mixers in just two to three minutes. Esco oil sight glasses, combined with the LEAP<sup>SM</sup> Oil Analysis Program, safely extended the drain intervals for Johnstown Regional Sewage to two years.



#### ***Other LE Products Used***

- Duolec® Vari-Purpose Gear Lubricant (1605)
- L-X® Heavy Duty Chemical Supplement (2300)
- Monolec® R&O Compressor/Turbine Oil (6405)
- Multilec® Industrial Oil (6802)
- Monolec Two-Cycle Engine Oil (8104)

*Thank you to Jeff Mulligan, chief operator, Mike Sabo, chief mechanic electrician, and David Hayes, 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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