



Duolec® Vari-Purpose Gear Lubricant (1607)

Henrico WWTP – Richmond, Va.

Philadelphia Gearboxes

- **Reduced amperage 13.2%**
- **Reduced operating temperatures by 15-20°F**
- **Extended oil drain intervals**

Customer Profile

Henrico Wastewater Treatment Plant is adjacent to the City of Richmond, Virginia. With their service area experiencing rapid growth, Henrico WWTP needed to upgrade their sewage capacity. A new plant was built and has since been through two upgrades. They currently process 40 million gallons of sewage a day, with a capacity of 60 million gallons. They have been an LE customer since 1994.

Application

They have several Philadelphia gearboxes that run continuously 24 hours a day, 7 days a week.

Challenge

While using a commercial synthetic lubricant, they were experiencing less than expected oil life and excessive foaming. Rarely could this product achieve the scheduled one-year drain interval.

LE Solution

Duolec® Vari-Purpose Gear Lubricant (1607) was recommended for its heavy-duty service capability in all types of industrial gearing. Duolec 1607 is long lasting, water-resistant, nonfoaming, and is very adhesive. It protects against corrosive wear, and reduces overheating.

Results

Larry Roos, lead mechanic, designated three Philadelphia gearboxes for a trial conversion. The immediate result was an average of 13.2% amp drop on these units. The gearboxes are now running about 12°F-20°F cooler. Instead of having to change oil at a year or less, with Duolec 1607, the new change intervals are set at 2 years. They were so pleased and impressed with the results, they changed all the Philadelphia gearboxes to Duolec 1607.

Larry calculated that the money he is saving using Duolec 1607, is enough to buy all the lubricants for the entire plant.

Other Products Used

- Almaplex® Industrial Lubricant (1275) – all grease points
- Quinplex® White Oil (4010) – gate oilers
- Multilec® Industrial Oil (6801-6804) – hydraulic and R & O oil applications

Thank you to Larry Roos, lead mechanic, James Britton, maintenance superintendent, and to Scotty Baird, 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.

SIC 4952
LI70416 04-13

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