



Monolec® GFS Engine Oil (8440)

Gloversville-Johnson WWTP – Johnstown, N.Y.

Caterpillar G342 Engines

- Extended oil drain interval
- Eliminated valve sticking

Customer Profile

Gloversville-Johnson Wastewater Treatment Plant is a joint plant for the cities of Gloversville and Johnstown, New York. Average flow is seven million gallons per day with a maximum of thirteen million gallons per day.

Application

Two Caterpillar G342, 6 cylinder, 225 hp engines burn methane gas generated in the two 1.5 million gallon anaerobic digesters. The gensets generate electricity to power the plant and excess heat heats the process.

Challenge

While using a commercial grade engine oil, drain intervals were ranging from 750-900 hours.

Methane is not a particularly clean gas. Sticky valves were a major problem requiring frequent maintenance overhauls.

LE Solution

Dave Healt, LE lubrication consultant, recommended Monolec® GFS Engine Oil (8440), which is formulated for heavy-duty service. It is made from select paraffinic base oil and it contains Monolec®, LE's exclusive wear-reducing additive.

Results

Since the conversion to Monolec 8440, drain intervals have been extended to 1,200 hours. LEAPSM (Lubrication Engineers Analysis Program) showed the oil was capable



of 2,000 hours if the filters were changed at 1,000 hours. Because the units must be shut down for filter changes, 1,200 hours was settled on.

Valve sticking is no longer a problem. Routine overhauls show that all internal parts are clean and show minimal wear.

Due to less downtime for oil changes and maintenance, energy savings are realized in more electrical generation and more excess heat to heat the process.

Other Products Used

- Oil Safe containers are used in the plant for routine maintenance operations.

Thank you to Dick Praetorius, maintenance manager, and to Dave Healt, 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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