



Monolec Ultra[®] Engine Oil (8800)

Mechanicsburg Sand & Gravel – Mechanicsburg, Ohio

3412 Cat Diesel Engine

- Extended oil drain intervals 150 hours to 500 hours

Customer Profile

Mechanicsburg Sand & Gravel is one of the largest sand and gravel operations in beautiful Champaign County, Ohio. They service Champaign and several neighboring counties. This company was founded by Robert H. Cushman. The operation has been in business more than 50 years and is still run by the Cushman family. Mechanicsburg Sand & Gravel has been an LE customer since 1985.

Application

Mechanicsburg Sand & Gravel is equipped with a 3412 CAT diesel engine. This unit provides all power to the plant. Brad Cushman stated, "It's probably our most critical application." The engine is in a very dusty environment and the ambient temperatures can reach 140°F (60°C). It runs 10 hours a day 6 days a week.

Challenge

Downtime is not an option for Mechanicsburg Sand & Gravel. Without this stationary motor operating, the whole facility shuts down. They need to protect the engine with a quality product they can rely on. They also wanted to extend oil drain intervals to reduce labor and oil consumption.

LE Solution

The local LE lubrication consultant recommended Monolec Ultra[®] Engine Oil (8800), which is for heavy-duty, long-drain service in diesel and gasoline engines. It



3412 Cat diesel engine

improves fuel efficiency, reduces wear, and provides all-season, all-weather performance. It exceeds performance requirements for Mack, Caterpillar, Cummins, Detroit Diesel, Ford and General Motors.

Results

By utilizing Lubrication Engineers Analysis Program and Monolec 8800, Mechanicsburg Sand & Gravel has extended their drain intervals from 150 hours to 500 hours.

This means less labor and parts are required for oil changes. Rex Cushman, fleet manager, "Monolec 8800 has performed unbelievably."



Other Products Used

- Duolec® Vari-Purpose Gear Lubricant (1605) – used in every gear box in the plant requiring an EP gear oil.
- Monolec® Power Fluid (7500) – used in Canica crusher to lubricate the two larger main bearings.
- Monolec® R & O Compressor / Turbine Oil (6406-6407) – used on the screen box of a jaw crusher.
- Wirelife® Almasol® Coating Grease (452) – used on the gearbox of the jaw crusher.



Thank you to Brad and Rex Cushman of Mechanicsburg Sand & Gravel, and to Steve Dean, LE lubrication consultant (pictured), for providing the information used in this report.



1952 jaw crusher



Canica crusher

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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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