



Wirelife® Monolec® Penetrating Lubricant (2001)

Dutchess Quarry & Supply Company – Goshen, N.Y.

Dryer Wheels at 5-Ton Stansteel Asphalt Plant

- Eliminated fly-off of grease from dryer wheels in high-heat application
- Avoided fines and shutdowns related to environmental contamination

Customer Profile

Dutchess Quarry & Supply Company operates two asphalt plants at its location in Goshen, N.Y. With the two plants, it is easy for Dutchess to produce 3,000 tons of road-paving asphalt in a regular workday. Dutchess Quarry has been in business since 1953 and has been an LE customer since 1999.

Application and Challenge

Phill Dipple, plant operator, had been using Shell grease for lubricating plant equipment, including the dryer wheels. The plant's dryer is about 60 feet long and 14 feet in diameter. It has a large burner that is capable of heating the aggregate to about 350°F. On the end where the aggregate enters the dryer, Phill noticed that the Shell lubricant flew onto the ground after it was applied to the wheels.

The Department of Environment and Conservation (DEC) is very concerned about the possibility of petroleum products contaminating the ground and imposes fines on plants that have this problem. Phill wanted to find a lubricant that would not fly off so he could avoid any possibility of ground contamination.

LE Solution

Phill had been using LE's Wirelife Monolec Penetrating Lubricant (2001) in some chain applications at the plant with great success. Wirelife 2001 is a heavy-bodied, penetrating lubricant that protects and lubricates. It contains Monolec, LE's exclusive wear-reducing additive that creates a single molecular lubricating film on metal surfaces, vastly increasing film strength without affecting tolerances.



Before



After

Phill has found that a thin coating of Wirelife 2001 is all that is needed to protect the wheels. He is careful not to over-lubricate the wheels. The wheel near the burner is hotter than the other wheel, so it is sprayed twice a day, while the other end only once a day.

Results

After spraying Wirelife 2001 on the dryer wheels, Phill saw no fly-off at all. This eliminated the concern about lubricants



contaminating the ground around the plant and helped the plant avoid DEC fines, which can be very steep. In addition to fines, the DEC can cause a plant to be shut down if contamination problems are found. Phill is glad to not have to worry about this anymore.

"It is unbelievable how well 2001 works!" he said.

Other LE Products Used

- Almagard® Vari-Purpose Lubricant (3751) on all bearings
- Monolec® Synthetic Industrial Oil (9032)
- Multilec® Industrial Oil (6801) in air line oilers
- Pyroshield® Syn Open Gear Grease (5182)



Phill Dipple

Thank you to Phill Dipple, plant operator, and to David O'Connor, LE lubrication consultant, for providing the information used in this report.



Dave O'Connor

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