

Rock Quarry Equipment Reliability Improves with Chesterton® Lubri-Cup EM-VS and 615-HTG#2

Mining Industry
Chesterton Lubri-Cup™ EM-VS and 615 High Temperature
Grease (HTG) #2

Challenge

Background

A rock quarry was experiencing frequent bearing failures on their mobile crushing, sorting, and sizing equipment. The failures were primarily caused by inconsistent maintenance and the use of underperforming grease, leading to increased downtime and repair costs. They reported at least one bearing failure every other month.

They needed a high-performance grease capable of withstanding extreme pressures, moisture, corrosion, and heavy abrasive dust. As labor shortage was one of the reasons for inconsistent maintenance, they needed to automate the lubrication process.

Solution

Product

Chesterton Lubri-Cup™ EM-VS automated lubrication dispenser, and Chesterton 615 HTG #2 Grease, featuring the Quiet Bearing Technology (QBT™) additive package, was recommended.

The Lubri-Cup™ EM-VS is activated by equipment vibration, ensuring lubrication occurs only when the equipment is running, preventing over-lubrication and helping to maintain constant pressure, and keeping dirt and dust out of the bearing housing. 615 HTG #2 Grease is designed to withstand extreme pressures in demanding quarry operations.





Mobile mining equipment encountering constant bearing failures.



Chesterton Lubri-Cup EM-VS with 615 HTG #2 grease: a contamination tight comprehensive solution.

Results

Improved Reliability

IL/MRO Case Study

The customer saw significant benefits within a few months. Bearings lasted much longer, reducing the need for unplanned shutdowns. With automated lubrication in place, they were able to allocate resources more efficiently.

Cost Savings:

Downtime cost per bearing failure = \$49,000.00/incident Annual downtime cost with one

incident every other month = \$294,000.00/year

Labor and repair cost for changing

bearings = \$32,000.00/year

Total cost of bearing failure before

Chesterton solution adopted = \$326,000.00/year

Initial cost of Chesterton solution -

Grease and Lubri-Cups = \$65,000.00

Total Cost Savings = approx. \$261,000.00 in the first year following installation



Mining equipment after installing the Chesterton solution showed significant reliability improvement.

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