

## Challenge

### Background

Electric motor reliability is critical in ore processing operations where the motor bearings are usually subjected to dust, heat, water, and aggressive chemicals. The plant was replacing 24-30 motors per year @ \$5,000-\$27,500 USD each.

### Goal

Due to reduced manpower and increased automation, the mine's management needed Chesterton to implement a program to efficiently lubricate electric motors throughout the plant.



Plant required reliable lubrication to extend motor life.

## Solution

### Electric Motor Reliability

All the motors were converted to **Chesterton 615 HTG #2** (High Temperature Grease) applied via **Lubri-Cup™ EM** Automatic Grease Dispensers.

- The 250 cc grease pack used was dispensed evenly over 6 months
- Once a week, the units were visually inspected to ensure proper operation
- The grease pack and battery were replaced on a 6-month interval



Chesterton electric motor reliability solutions installed.

## Results

### Savings & Improved Reliability

- Plant realized a 90% reduction in electric motor failure – dramatically improving the reliability and productivity of the ore processing lines
- After 5 years, the mine replaces only 3-4 motors per year – and none due to bearings failure
- Labor costs greatly reduced

Annual Savings:

\$425,000

\$=USD



Automatic dispensers are safe, reliable, and easy to maintain delivering the exact amount of grease required.