Coal Conveyor Bearings, Power Plant

Chesterton Lubricants/MRO Chemicals

Fossil Power
Products: 615 HTG #2, Lubri-Cup™ EM
Case Study 002 LMRO

Challenge

Background

The coal handling conveyor system is a critical piece of equipment for a coal-fired power plant. Reliable delivery of the coal is crucial to plant up time.

- There are up to 6 critical areas of bearing reliability with issues that typically include load, vibration and abrasive contamination.
- Premature failure is not an option. Bearing change consumes many hours and dollars annually.
- The cost of bearing failure can be $20,000-30,000/each *plus* loss of production.

Chesterton 615 High-Temperature Grease resists chemical attack in the coal yard.

Solution

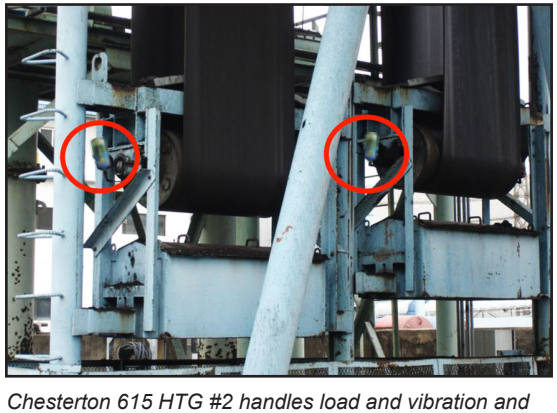
Product

Upgrading the Grease

Chesterton 615 High-Temperature Grease (HTG) #2 was used to lubricate head, tail, tension, and snubber pulley bearings. This product increased corrosion protection, load/vibration handling, and decreased oil separation.

Deliver Grease Automatically

The **Chesterton Lubri-Cup™ EM** system was chosen to dispense the high-performance grease to the bearing.

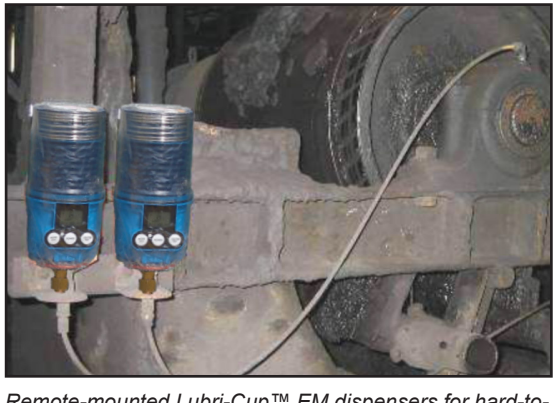


Chesterton 615 HTG #2 handles load and vibration and protects against corrosion on tension pulley bearings.

Results

- The plant has installed **Chesterton 400 Lubri-Cup™ EM** units over a 3-year period.
- Bearing failures in the coal handling system are almost non-existent.
- Worker safety issues associated with icy wintertime lubrication maintenance have been reduced.
- **The estimated cost savings to this plant is approaching $100,000/year.**

$=USD



Remote-mounted Lubri-Cup™ EM dispensers for hard-to-reach areas on the head pulley.

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