

Challenge

Background

An Eimix[®] mechanical sludge mixer for a wastewater treatment plant had repeated bearing failure due to poor bearing sealing, water contamination of the bearing housing, and subsequent grease washout.

Goal: Avoid costs for a total rebuild

| Shaft and bearings: Current Cost: | \$ 6,000 \$29,000 |
|--------------------------------------|-----------------------------|
| 4 men x 10 days: | \$20,000 |
| Equipment rental (crane): | \$ 3,000 |



Greasing hard to seal shaft bearings was unreliable. Annual failure was expensive.

Solution

Product

Chesterton 30KC Greased Seal Cartridge with Chesterton 615 High-Temperature Grease (HTG) and Lubri-Cup[™] EM; ARC industrial coating on propeller.

- Bearing isolation accomplished by injecting the Chesterton 30KC with water-and corrosion-proof Chesterton QBT grease.
- The Chesterton Lubri-Cup[™] EM automatic dispenser delivers precise amounts of grease 6X/day.
- Water and grit is continuously purged from the bearing housing.



Chesterton Lubri-Cup™ EM and 615 HTG installed.

Results

- 300% longer bearing life
- Longer service life for the mixer
- Longer time between removal and installation of mixers—no safety issues
- Long-term savings

Cost Avoidance

| Original rebuild cost: | +\$29,000 |
|---|-----------|
| Chesterton lubrication/coatings: | -\$ 2,750 |
| Annual Savings: | \$27,250 |
| Eimix [®] is a registered trademark of Ovivo | |

\$=USD



A new level of reliability delivered by Chesterton solutions.

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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