

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

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



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 Breakdown

Avoidance of rebuild cost:	-\$30,000
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.