

## 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
<b>Current Cost:</b>	<b>\$29,000</b>



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:	<b>+\$29,000</b>
<b>Chesterton lubrication/coatings:</b>	<b>-\$ 2,750</b>
<b>Annual Savings:</b>	<b>\$27,250</b>

*Eimix® is a registered trademark of Ovivo*

\$=USD



A new level of reliability delivered by Chesterton solutions.