

Challenge

Background

A concrete production plant has 12 bearings in each autoclave transport rig and a total of 67 autoclaves. Their previously used grease charred when exposed to temperatures between 250°F– 350°F. As a result, there were about 50 bearing failures per month.

The facility wanted a grease that will perform well at high temperatures of up to 350°F and reduce the bearing failure rate.



Failed bearings on autoclave transport rigs.

Solution

Product

Chesterton specialists recommended **Chesterton 615 HTG #2 High-Temperature Grease** after analyzing the problem. The plant's procurement department was concerned about the cost differences in switching, but later they agreed to run a trial due to the severe nature of the bearings failure.

615 HTG #2 High-Temperature Grease is capable of operating at its highest strength even at higher temperatures and can reduce varnish and gum formation.



Chesterton 615 HTG #2 High Temperature Grease performs well up to 400°F.

Results

Bearing Life Increased

After switching to **615 HTG #2 High Temperature Grease**, the bearing failure rate dropped from 50 per month to 3 – 8 per month, with most bearings lasting over 6 months.

- Estimated replacement cost of \$120 per bearing
- Previous Bearing replacement cost per year = \$120 x 600 bearings = approx. \$72,000
- Current Bearing replacement cost per year = \$120 x 100 bearings = approx. \$12,000
- Reduction of annual bearing replacement costs = approx. \$60,000

Including reduced maintenance and downtime, their total annual **savings are estimated at \$70,000 to \$80,000 annually**. Their maintenance staff is highly satisfied with the results.



Autoclave transport rig bearings coated with Chesterton 615 HTG #2 High Temperature Grease, lasting 6 – 8 times longer compared to a competitor's grease.