

# Customer Testimonial



## Pyroshield® Syn Open Gear Grease (5182)

**CW Estes Company – Staley, North Carolina**

### Conical Tumbler

- Stays on gear with no sling-off, unlike previous product
- Stays fluid, does not harden on gear teeth like previous product
- Causes less mess, with no cleanup of shroud required
- Lasts longer (application rate has been reduced by 75 percent)

#### Customer Profile

CW Estes Company has been in business for more than 20 years at this location. It manufactures decorative stone for use in aquariums and sells it throughout the U.S. and internationally.

#### Application

The company uses a conical tumbler to disperse the coatings and color over the stone during the manufacturing process. The stone typically is in the tumbler for about an hour each time. The drum of the tumbler is turned by a pinion gear that contacts the bull gear on the drum. The bull gear is about 4 feet in diameter. The smaller pinion gear is about 1 foot in diameter.

#### Challenge

Barry Presnell, maintenance supervisor, and his crew were manually applying an asphaltic-type open gear lubricant that was messy and did not last very long. They were applying two tubes of lubricant per week with a caulking gun. During use, it would sling off and fall to the floor. It also hardened on the gear, in the gear teeth and on the shroud. All of this caused more time to be needed for periodic cleanup. Presnell was looking for a product that was less messy, would last longer and would protect the gears.

#### LE Solution

Jeff Boyles, LE lubrication consultant, recommended Pyroshield (5182), an extreme pressure grease for use



in the most severe service on open gears, cams, cables, fifth wheels and other sliding surfaces. It is a synthetic lubricant developed for the mining industry and for open gears in indoor or outdoor equipment regardless of temperature extremes. The product is lead-free and contains Almasol®, LE's proprietary wear-reducing additive. Pyroshield grease has a 90-lb Timken OK load.

#### Results

Barry tried some Pyroshield on the open gears and was happy with the results. To convert the lubricant, he followed LE's recommended cleaning process. He used Almasol Vari-Purpose Gear Lubricant (607) – now Duolect® Vari-Purpose Gear Lubricant (1605) – to clean off the former lubricant. He then started applying the Pyroshield with the same rate as before but quickly realized that was too much. He reduced the rate to one tube a week and now is applying only one or two tubes a month.

He discovered that once the gears became coated, not as much replacement lubricant was required because the Pyroshield stayed on better and lasted longer. It did not sling off and pile up on the floor like the previous



product, nor did it harden on the gears, in the gear teeth and on the shroud. They Pyroshield greased stayed fluid. Barry has reduced the application rate from eight tubes to one or two tubes a month – a 75 percent reduction. In addition, the Pyroshield grease is providing excellent wear protection.

*“I am really happy with it (Pyroshield). It takes less time to apply, is a cleaner type grease, and causes me less trouble with maintenance,”* Presnell said.

*Thank you to Barry Presnell, maintenance supervisor, and Jeff Boyles, LE lubrication consultant (pictured), for the information provided for this report.*



#### **Other LE Products Used**

- Almasol Vari-Purpose Gear Lubricant (607) in gearbox applications
- L-X® Heavy Duty Chemical Supplement (2300)

Pyroshield®, Duolec®, Almasol® and L-X® are registered trademarks of Lubrication Engineers, Inc.

Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.