



Synolec® Gear Lubricant (9822)

Kronotex USA – Barnwell, S.C.

SEW Gear Units

- Reduced operating temperatures by 30 degrees, even during hot summer weather
- Eliminated the need for fans to be used on the gearboxes
- Prevented overheating

Customer Profile

Kronotex USA constructed its first U.S. manufacturing facility in Barnwell, S.C., in 2005. This facility provides products for the company's customers in the United States, Canada and Mexico. Kronotex traces its roots to Lungotz, Austria, in 1897. Its factories are vertically integrated to manufacture virtually all of the component parts of the finished product. The South Carolina facility produces the popular laminate flooring for homes and businesses.

Application

SEW gear units on the finishing lines

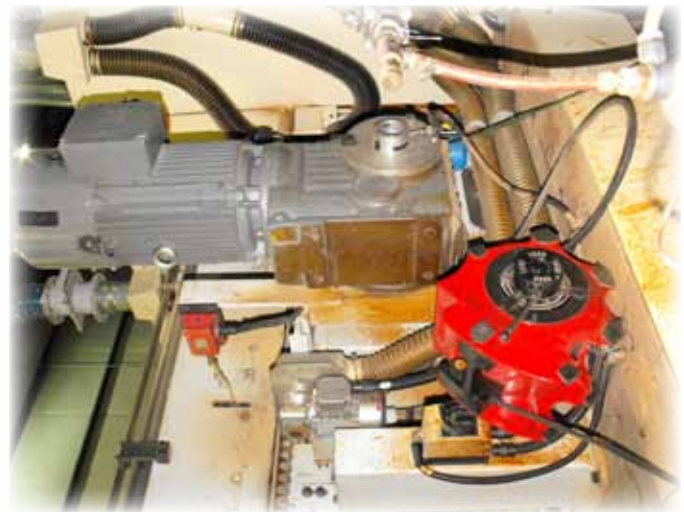
Challenge

In March 2010, Scotty Ray, maintenance team leader, asked Lubrication Engineers for advice concerning high-temperatures in gearboxes on the finish line. The gearboxes were running so hot that fans had to be placed on the gear units to prevent overheating. This was especially a problem in the summertime.

LE Solution

SEW, the manufacturer of the gear unit, specified EP 220 gear oil. Helmut von Schweinitz, LE consultant, recommended that Kronotex begin using LE's Synolec Gear Lubricant (9822) in the gearboxes.

Synolec 9822 provides exceptional protection and extended gear life in heavily loaded gearboxes that are exposed to extremes of high and low temperatures. It has excellent oxidation stability contributing to long service life and reduced lubricant consumption. It also has high load-



carrying capacity and can be filtered to 3 microns without detrimental effect on performance.

Synolec 9822 contains Duolec®, LE's proprietary dual-acting additive that imparts synergistic properties to lubricants, providing both wear-reducing and extreme pressure protection. Duolec increases oil film strength and is temperature-activated to provide a protective layer that smooths metal surfaces and minimizes the effects of any contact, thereby reducing friction and preventing surface wear.

Results

Kronotex began using Synolec 9822 in March 2010. The temperatures on the gear units dropped to 130°F to 150°F (54°C to 66°C). This was 30 degrees cooler than the previous gear oil. During the summer of 2010, which was typical for high ambient temperatures, the gear units maintained the lower operating temperatures. Kronotex was able to remove the fans and expects longer service life from the new oil.

Thank you to Keith Parker, maintenance manager, Scotty Ray, maintenance team leader, and Helmut von Schweinitz, LE lubrication consultant (pictured), for providing the information used in this report.





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

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