

## APPLICATION

Corrugated Box Machine Gearbox

# LE Gear Oil Reduces Leaking, Seal Failure & Noise

CUSTOMER TESTIMONIAL  
SupplyOne

## CHALLENGE

Lubricant did not adhere properly to gear; and it frequently hardened and caused seals to shrink, leading to leaking oil

## SOLUTION

Duolec® Vari-Purpose Gear Lubricant (1605)

## RESULTS

- Significantly reduced oil leakage and consumption
- Provided better seal compatibility
- Drastically reduced equipment noise

## Customer Profile

SupplyOne was founded in 1998 with a pledge to provide customers with innovative packaging that protects and presents their customers' products in the best way possible. SupplyOne has extensive manufacturing and design capabilities, which include custom corrugated packaging, foam fabrication, plastic thermoforming and pressure sensitive labeling. SupplyOne has used LE products since 2015. More information is available at [www.supplyone.com](http://www.supplyone.com).

## Application

The company uses a Simon 230 Corrugated Box Machine for manufacturing corrugated boxes and printing labels.

## Challenge

The major brand name competitor's synthetic lubricant that SupplyOne was using in the corrugated box machine's gearbox frequently hardened and shrunk the seals, leading to significant leaking. The leaking oil had to be topped off frequently, contributing to excessive lubricant consumption. In addition, the synthetic oil was not adhering properly to the gear. The poor lubrication caused excessive noise when the machine was in operation.

## Results


Along with considerable decrease in leakage due to its seal compatibility, Duolec 1605 also adhered better to the gear and drastically reduced equipment noise. This reduction in noise enables SupplyOne operators to hear sounds in the equipment that indicate when repairs are needed.

"After the switch to Duolec 1605, the oil adhered much better to the gear than the previous lubricant," said LE consultant Robert Crews. "During inspection, the maintenance manager would see the red LE oil still on the gear."



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### **LE Solution**

Robert Crews, LE lubrication consultant, recommended Duolec® Vari-Purpose Gear Lubricant (1605) for its dual-acting additive that provides wear-reducing and superior EP protection, and its shear stable tackifier that ensures proper adhesion to metal during use. In addition, with its mix of synthetic and mineral base oils, it is seal neutral, meaning it will not cause shrinking or swelling of most seal material.



*Thank you to Terry Walker, maintenance manager, and Robert Crews, LE consultant (pictured), for providing the information used in this report.*



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