



## Duolec® Vari-Purpose Gear Lubricant (1605)

### Kayline Processing – Trenton, N.J. Printing Presses & Laminators

- Increased overall machine reliability
- Decreased downtime to less than 1 percent
- Significantly decreased man-hours due to extended change intervals

#### Customer Profile

Kayline Processing is a converter of flexible vinyl films, specializing in the printing and lamination of vinyl films to various woven and nonwoven fabrics, knits and sheeting for industry-specific requirements. The materials go into many different products such as table pads, instrument cases and amplifiers. Located in Trenton, N.J., Kayline is a family-owned company that started in the 1950s and now has customers in many industries all over the world.

#### Application

Kayline runs three rotogravure print presses and two laminators. These machines were all built in the 1960s. Many motors and gearboxes are still original. The machines have run two shifts, five days a week for decades. Kayline also relies daily on other machines such as air compressors and hydraulic pumps.

#### Challenge & Solution

Pete Burns, an engineer at Kayline, gave this account of his company's history with LE:

"We are always trying to improve our maintenance program without adding wrench-time. An LE consultant came around and claimed some energy reduction if we were to switch to Duolec® Vari-Purpose Gear Lubricant (1605). I was skeptical but tried a before-and-after current reading. The gearbox I chose was small so the current readings were low. Savings could not be measured. I did notice the reading was erratic prior to the oil change, and after the change the Amprobe needle stayed nice and steady. I was impressed and changed every gearbox over to LE. Later, we realized a big savings in man-hours due to extended change intervals."



"Another benefit (provided by LE) is the LEAP<sup>SM</sup> oil analysis program. We had a high metal flag on a sample. Inspection found bearing journal wear on one shaft. We had time to procure and install a new gearbox without an hour of downtime."



### Results

Kayline tracks downtime when a whole line goes down due to factors other than production problems. In the most recent year, this downtime was less than 1 percent.

“We have increased reliability in our machines overall,” Pete said. “I am very happy with Lubrication Engineers. I feel we get a great product at a reasonable cost.”

### Other LE Products Used

- Almaplex® Ultra-Syn Lubricant (1299) – Eliminated problems with hot bearings
- LEAP<sup>SM</sup> Oil Analysis Program
- Monolec® Hydraulic Oil (6120) – Reduced water content in hydraulic systems
- Monolec® R & O Compressor / Turbine Oil (6401) – Reciprocating air compressors
- Monolec® R & O Compressor / Turbine Oil (6402) – Rotary compressor
- Monolex® Penetrating Oil and Lubricant (2059) – Maintenance
- Pyroshield® Syn Open Gear Grease (5100) (aerosol spray) – Extended life of open gears
- Wirelife® Monolec® Penetrating Lubricant (2001) – Eliminated problems with roller chains

*Thank you to Pete Burns, engineer (pictured on front), and Jeff Frank, LE lubrication consultant (pictured right), for providing the information used in this report.*



Duolec®, Almaplex®, Monolec®, Monolex®, Pyroshield® and Wirelife® are registered trademarks and LEAP<sup>SM</sup> is a service mark of Lubrication Engineers, Inc.

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

SIC 2759  
LI70901 7-15