

4030 QUINPLEX® White Oil

Gold Kist Poultry, Athens, GA

Chain • SIC 2015 Poultry Slaughtering & Processing

- **Chain Replacement Savings of \$18,500**
- **Reduced Amount of Lubricant Used by 90%**
- **Lubricant Interval Decreased by 2/3**

CUSTOMER PROFILE

Gold Kist Poultry is one of the largest processors of chicken in the world. The Athens, Georgia plant is a first stage poultry processing plant.

APPLICATION

The plant uses 6 large chains throughout the plant to process live chickens.

AREA OF INTEREST

The chains average 1,000 feet in length. Using a commercial brand chain lubricant, the chains would only last a maximum of 14 months before having to be replaced. Replacement of the chains were expensive and time consuming. The average cost of replacement for one processing line chain is in the neighborhood of \$20,000.

LE SOLUTION

Maintenance Manager Charlie Hoag consulted with LE Representative Chris Nowlen to find a solution. Since Gold Kist had already had great success with other Lubrication Engineers, Inc. products, he was more than willing to listen to what Chris had to offer.

Chris recommended LE's 4030 QUINPLEX® White Oil.

4030 is a food grade SAE 30 white oil that is a USDA authorized and NSF Registered H1 lubricant. It is designed with QUINPLEX®, an extremely strong anti-wear and rust and oxidation resistant proprietary additive. LE's 4030 has the ability to do the following: resist water, form a barrier against rust and corrosion and stay in place (dingability). This was a major concern since the processing lines are sterilized every night with high-pressure water. This is a requirement of the USDA for all chicken processing plants. Previous lubricant was discolored after wash down and the chains had to be lubricated every three days.

CUSTOMER COST SAVINGS

Gold Kist agreed to try LE's 4030 on Picking Line #2. This is the longest chain in the plant. Within one week of applying LE's 4030, the maintenance staff noticed that the chains were extremely wet (had a lot of lubricant on the chain). **Lubrication frequency went from 3 times a week to once a week on Saturdays.** This helped immediately in savings, since the chains could be lubricated on off-peak times, thus freeing up a maintenance person to pursue other activities.

CUSTOMER TESTIMONIAL

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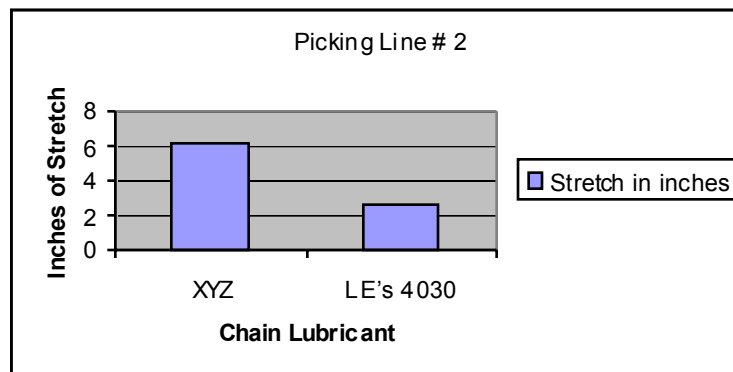
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The other consideration was the amount of lubrication needed and the chain stretching due to wear. With the previous lubricant a 10-micron spray nozzle was used. With LE's 4030 a 0.6 micron nozzle is used to provide an extremely fine mist. This has resulted in savings of over 90% of previous lubricant used.

The chain would stretch over 6 inches in a 14-month period and had to be replaced at a cost of \$18,500. With the introduction of LE's 4030 the chain only stretched a little over 2 inches in 12 months and the chain life is expected to be at least double if not more. The following chart shows the comparison between the two lubricants .

Lubricant Used	Install Date	End Date	Stretch in inches	Cost of replacement
XYZ	12-2002	2-2003	6 2/3	\$18,500
LE's 4030	2-2003	2-2004	2 5/8	\$0



Estimated cost savings for using Lubrication Engineers 4030 in a 2-year period for all 6 chains used in plant, minus the cost of the lubricant is a net savings of \$96,000!

OTHER PRODUCTS USED

- 605 ALMASOL® Vari-Purpose Gear Lubricants
- 4025 QUINPLEX® Food Machinery Lubricant
- 4701 MONOLEC® Industrial Lubricant
- 9460 MONOLEC® Synthetic Industrial Oil

Lubrication Engineers wishes to thank Maintenance Engineer Charlie Hoag, Maintenance staff members Kent Pilgram and Fred Westfall for all their hard work and support, and LE Representative Gary Gerber for information provided to prepare this report.

