

## Challenge

### Background

The timing gears (open gears) on a paper machine were lubricated with an adhesive, black asphaltic gear lubricant.

Steam and chemical vapor degraded the lubricant, forming hard residues in the gear grooves and also exposing the gears. All of this led to excessive wear resulting in pinion replacement.



*Exposed gear teeth and hard residues.*

## Solution

### Product

**Chesterton® 715 Spraflex Gold**, a synthetic-based oil with a clear fluid film, was selected for application. Synthetic polymer additives provide a durable lubricating film that does not squeeze out or wash off.



*715 Spraflex Gold was applied by a conventional pneumatic grease pump.*

## Results

### Trouble-Free Lubrication

**715 Spraflex Gold** provided trouble-free lubrication between plant shutdowns. Gears were well lubricated, and gear inspection was made easy as a result of the clear fluid film.

Machine maintenance and operations noticed that the gears ran “quieter.”



*Clean and quiet operation of the timing gears.*