

## Challenge

### Background

A brick manufacturer reported severe residue on their conveyor chains caused by brick dust. Previous lubrication with grease or cheap, all-purpose oils did not clean the chains; moreover, the lack of penetration led to stiff pins and bushings, making the chains unusable after a short period of time. These issues caused broken chains, high energy consumption, and chain binding, necessitating regular replacement. The lifespan of the chains was less than a year.

The customer was looking for a lubrication solution that would lower maintenance costs, extend the chain life, and make chain operation more efficient.



Brick conveyor chains failing due to residue buildup.

## Solution

### Product

A Chesterton specialist analyzed the problem and recommended Chesterton® 601 Chain Drive Pin and Bushing Lubricant. The 601 lubricant helps extend chain life, reduce energy use, and provide effective lubrication with a long-lasting, non-drying film. It helps protect chains from dirt and dust due to its high detergency, ensuring smoother operation, especially during stops and starts. This premium oil penetrates between bushings and pins, helping to prevent the formation of sticky residue.



601 Chain Drive Pin and Bushing Lubricant with high detergency and low friction coefficient.

## Results

### Improved Productivity

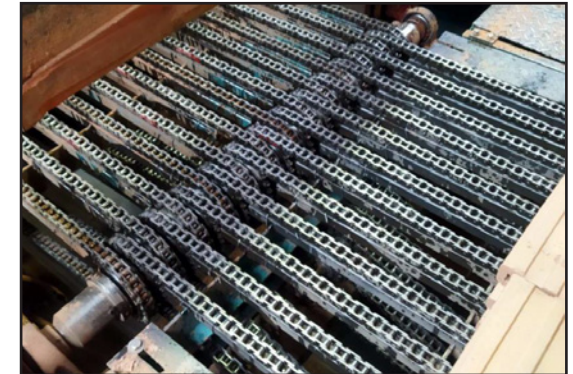
After the customer started using Chesterton's 601 lubricant, residue on the chain was significantly reduced, resulting in smoother operation. This has reduced power consumption by 2%. The consumption of oil dropped from 2 drums a year to 1 drum.

Savings for 2 years:

- Reduction of lubricant from 2 to 1 drum = \$1100 (compared to a competitor's product)
- Power savings = \$1120
- Other savings = \$2850 (reduced shutdowns, chain replacement, labor)

Total savings for 2 years = \$5070

\$ = USD



Cleaner chain with smoother operation after the use of 601 Chain Drive Pin and Bushing Lubricant.