

Challenge

Background

The chains of an apron feeder are exposed to moisture and abrasive dirt. Water and abrasive dust residue buildup caused excessive wear as well as severe corrosion in the pin and bushing. Chain links are replaced every 1-2 weeks, and the whole chain is replaced every month.

Goal: Extend Chain Life/Reduce Costs

Chain Consumption:	36 ft/month
Total Chain Cost:	\$ 8,030
Lubrication:	\$ 100
Total Monthly Cost:	\$ 8,130
Annual Chain Cost:	\$96,336



Water and abrasives wear the chain.

Solution

Product

- Applied **Chesterton 601 Chain Drive Pin and Bushing Lubricant** on the chains without prior cleaning.
- The lubricant's high-capillary action penetrated the pin and bushing rapidly, removing the residue built-up on the chains.
- **Chesterton 601's** corrosion inhibitor and extreme pressure additive kept the chains well lubricated and corrosion free.



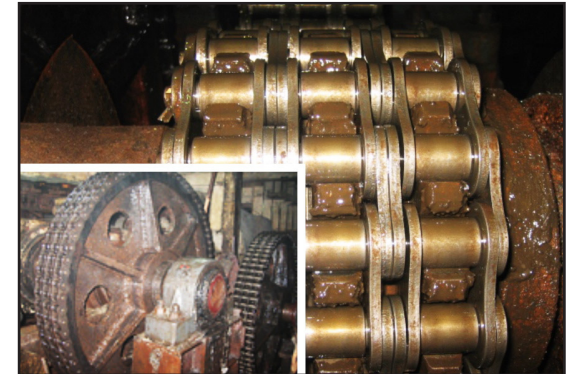
Chesterton 601 penetrates, removing sludge and residue build-up as it lubricates.

Results

- After 1 month using **Chesterton 601** in the oil bath, the detergency action of this product kept the chain free from sludge.
- After 12 months, chain life doubled, and primary crusher production rates increased by 30%.

Chain Consumption:	18 ft/month
Total Chain Cost:	\$ 4,015
Lubrication:	\$ 650
Total Monthly Cost:	\$ 4,665
Annual Savings:	\$40,536

\$=USD



After 12 months of use, chain life increased 200% and ore processing productivity by 30%.