

Challenge

Background

- Heat treating steel over 500°C (932°F) produces an oxide layer (scale).
- Conveyor chains are contaminated with this abrasive scale, which prevents oil from penetrating into the chain.
- Poor lubrication of the pin and bushing resulting in a chain life cycle of only 6 months.
- RS 100 Chain, 2100 ft. @ 5.50/ft. X2
- Annual chain cost: **\$23,100**



Scale, oxide and rust creates excessive wear to the chain.

Solution

Product

- **Chesterton 601 Chain Drive, Pin and Bushing Lubricant** applied to the chain manually on the monthly maintenance cycle.
- Immediately, the chain began to operate more quietly.
- During the evaluation of the **Chesterton 601**, the condition of the chain was monitored for wear. The volume of **Chesterton 601** needed to adequately lubricate was recorded.



Heavy scale and surface contamination prevented re-lubrication by normal oils.

Results

- Increase in chain life: **3X**
- **Chesterton 601** penetrated through the “mill scale” fines on the surface to lubricate the critical interior of the chain.
- The high detergency kept the chain virtually clean of any build up.

Annual Chain Savings: \$15,400

\$=USD



Chesterton 601 penetrates, cleans, and lubricates the most difficult applications.