

Extended Chain Life with 720 CCG at Terminal Port

Challenge

Background

A marine port faced issues with a side loader chain used for lifting empty containers. Due to continuous outdoor operation and poor lubrication, the chain's lifespan was just 12 months instead of the expected two years. It showed excessive wear and corrosion as well as chain breakage during operation, leading to container damage and posing significant safety risks and downtime losses.

The customer needed a chain oil that could effectively lubricate the inside of the chain pins and bushings while also resisting wash-off due to water exposure.



Side loader at a terminal port whose chains were failing prematurely.

Solution

Product

The Chesterton specialist recommended **Chesterton® 274 Industrial Degreaser** to clean the chains and **Chesterton 720 CCG with diluent** for lubrication and protection. **Chesterton 720 CCG** is a one-shot system designed to lubricate the inside of chains while also providing external protection, providing excellent wear and corrosion resistance.

\$ = USD



Cleaning with 274 Industrial Degreaser and lubricating with 720 CCG with diluent.

Results

Increase Reliability

After using **Chesterton 720 CCG with diluent** for six months, chain measurements show little wear, as confirmed by a chain elongation gauge. The chain remains relatively free of rust and corrosion and remains flexible around sprockets. Based on these results, the lift chains are expected to meet or exceed their intended lifespan of two years, 2X life extension.

Cost of chain replacement:

Before = \$12,000.00/year

After = \$6,000.00/year

Cost of Chesterton solution = \$700/year

Customer savings = \$5,300/year/loader



After using 720 CCG with diluent for 6 months, there was minimal corrosion or detectable wear.