

# Lubrications Extend Wire Rope Service Life by 6X

## Challenge

### Background

The wire rope for marine port cranes were lubricated with an ordinary grease. It was observed that by using this ordinary grease it caused the following:

- Ineffective function due to residue build up and abrasive wear.
- Messy application, dripping, and contamination
- Failure to lubricate the inner layers
- Monthly replacement of wire ropes



Wire rope with ordinary grease applied.

## Solution

### Product

**Chesterton 601 Chain Drive Pin and Bushing Lubricant** was applied for internal lubrication and **Chesterton 715 Spraflex® Gold** for external lubrication.

**601** penetrates to the core of the rope, displacing water and cleaning away old residue.

**715 Spraflex® Gold** provides a waterproof external lubricating film.



Wire rope with **Chesterton 601 Chain Drive and Bushing Lubrication** and **715 Spraflex Gold** applied.

## Results

### Increased Reliability

It was observed, after proper application, the following has been evident:

- Effective and efficient performance of the hoist cranes.
- Longer life of the material as internal lubrication has been added to their procedures during maintenance.
- Frequent replacement of wire ropes have been decreased from 12 times a year to twice a year. A 600% increase in service life.



After a month of application wire ropes are still free from dirt and dust build up.