

Challenge

Background

- Abrasive wear and heavy loads caused conveyor chain hinge bolt to fail. Each year about 30 chains had to be repaired.
- Most of the connecting chain hinge bolts could not be removed due to corrosion.
- For every chain, 10-20 hinge bolts were required to be removed by cutting torch.
- 30 chains x 15 bolts: 450 bolts
- \$150/bolt: \$67,500



Customer originally applied graphite paste diluted with mineral oil.

Solution

Product

- Apply **Chesterton 725 Nickel Anti Seize** to the pin and bolt assembly during repair.
- Threads and pin were heavily coated with lubricant from 20 liter pails applied with large brushes.
- The conveyor was put into service and evaluated after 12 months during the annual scheduled PM of the coal conveyor.



New hinge bolts and nuts are coated with Chesterton 725 Nickel Anti-Seize.

Results

With the use of **Chesterton 725 Nickel Anti Seize** almost all bolts could be removed during annual chain/conveyor maintenance.

- Hinge bolts showed 50% less wear
- Disassembly time was reduced by 75%
- Greatly reduced downtime and loss of production

Customer estimated savings: **\$160,000/year**

\$=USD



Hinge bolts were easily removed during scheduled maintenance.