

Carpet Manufacturing Facility Reduces Chain Failures by Using 650 AML and Lubri-Cup

Textile Industry
Chesterton 650 AML Advanced Machinery Lubricant and
Lubri-Cup OL 500 Oiler
IL/MRO Case Study

Challenge

Background

The carpet manufacturer was experiencing frequent chain failures (at least once a year) on the main conveyor chain that transports carpets from the tufting machine. These failures were caused by the buildup of carpet dust, fibers, and latex, as well as the evaporation of existing lubrication due to high oven temperatures. Additionally, they were using a recycled lubricant contaminated with dirt and debris, which worsened the normal production issues. To address these challenges, they needed a lubricant that could actively clean carpet dust, fibers, and latex from the chain during operation. They also required a lubricant that could be easily washed off with soap and water if it came into contact with the carpet.



The chain conveyor transporting carpet from the tufting machine.

Solution

Product

The Specialist and Field Product Manager presented and demonstrated the **Chesterton® 650 AML Advanced Machinery Lubricant** on the existing chain, showcasing its immediate performance benefits in terms of detergency. To simplify the application process, a single-point applicator equipped with 2-inch nylon brushes was selected, along with the **Chesterton Lubri-Cup™ OL 500 Oiler**.

650 AML lubricant is a high-performing, biodegradable lubricant that cleans chains while it lubricates. It is a plant ester-based lubricant that can be washed off with soap and water in case of contamination to the carpet.



650 AML with high detergency and Lubri-Cup Oiler for automatic dispensing.

Results

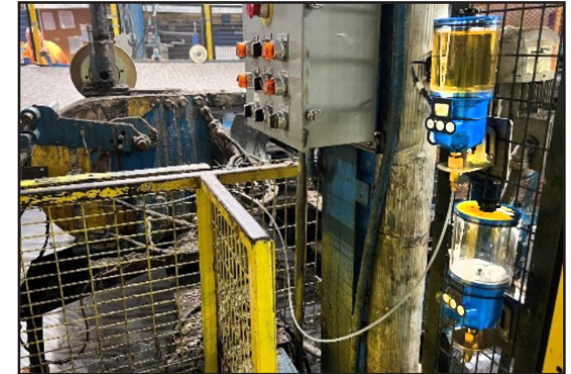
Reduced Chain Failures

After implementing the Chesterton 650 AML, the customer immediately noticed a significant improvement in the chain's condition. They remarked that the chain had never been cleaner. The previously shaky and noisy operation transformed into a much smoother and quieter performance. Since switching to 650 AML, the customer has experienced fewer chain failures.

Cost savings:

| | |
|----------------------------------|---------------------|
| Cost of chain | \$250,000.00 |
| Labor cost for changing chain | \$8,000.00 |
| Chesterton 650 AML and Lubri-Cup | \$3,600.00 |
| Total yearly savings | \$254,600.00 |

\$ = USD



Remotely controlled Chesterton Lubri-Cup Oiler that dispenses 650 AML as per preprogrammed settings.