

Challenge

Background

A sawmill's tree trunk transport chain located outside faced severe lubrication problems. The previous oil became rancid quickly, forming sticky residues and attracting fine sawdust, leading to increased wear and tear, higher energy consumption, and frequent downtimes.

The customer required a biodegradable lubricant to minimize environmental contamination and meet the chain's high-performance demands.



Tree trunk transport chain in a sawmill.

Solution

Product

A Chesterton specialist diagnosed the issue of sticky residue and inadequate detergency in the oil. He recommended **Chesterton® 650 AML**, a high-performing biodegradable oil with excellent detergency.

650 AML is readily biodegradable according to OECD 301 testing and has a high load-bearing capability that reduces wear.



650 AML was applied on the chains with a central automatic lubrication system.

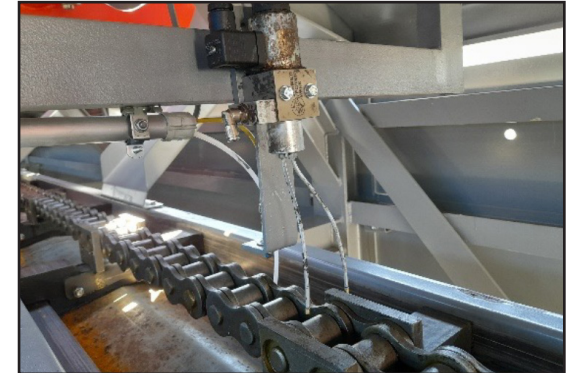
Results

Reduced Buildup and Residue

The first requirement, biodegradability, was met with **650 AML**. Technical improvements include:

- Excellent cleanability, making the chain look “like new.”
- No sawdust build-up due to sticky oil residue.
- Very good penetration, lubricating pins and bushings effectively.
- High film strength, yielding less wear.

After six months of use, the customer is very satisfied. The chain remains in excellent condition.



Improved chain condition due to the **650 AML** high detergency.