

New Lubricant Extends Hoist Chain Life by 65% on Assembly Line

Automotive
Products: Chesterton 601
Case Study 046 IL/MRO

Challenge

Background

The auto body fixture of the assembly line is subjected to high vertical motion and heavy loads. As a result, the customer uses special tensile strength chains to handle the loads.

The chains were lubricated with grease and due to its high viscosity it could not penetrate and lubricate the pins and bushings. The chain broke after only 10 months in operation.



Heavy loads impact equipment reliability.

Solution

Product

During replacement, the chain was lubricated with **Chesterton 601 Chain Drive Pin and Bushing Lubricant**.

The oil is formulated to penetrate and lubricate the close tolerances of drive pins and bushings to increase chain life and improve operation.



Chesterton 601 provides critical lubrication.

Results

Savings

- With the use of **601 Chain Pin and Bushing Lubricant**, the customer observed a 65% improvement in the life of the chain. This equates to a cost saving of \$127 per month for the chain alone, and a cost avoidance of \$17,900 (replacement typically needed every 10 months).
- The customer also observed a reduction in energy consumption as a result of the lubricant.



The solution greatly improved chain life.