

Lubrication Improves Locomotive Wheel Bearing Life by 300%

Challenge

Background

Railway bearings on locomotives failed due to poor lubrication. They were using a grease with low resistance to water wash-out and heat. The wheel assemblies were exposed to high-temperature caused by heavy loads and increased friction. Pitting corrosion, water wash-out, and thermal degradation led to bearing failure.

Solution

Product

Chesterton 615 High-Temperature Grease (HTG) #2 was used to regrease new locomotive wheel bearings. Due to the excellent thermal and load resistance, the lubricating film remained intact and friction was reduced. While, the anti-corrosion and water wash-out properties of *615 HTG #2* preserved the bearing by preventing pitting corrosion.

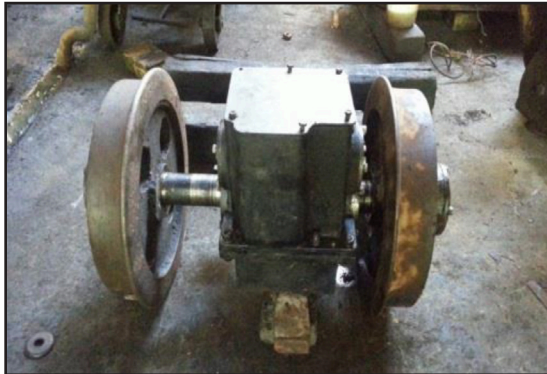
Results

Increase Reliability

Continuous usage of *Chesterton 615 HTG #2* resulted in significant improvements.

In the past locomotive bearings were usually changed every two weeks on average due to wear. Bearings lubricated with *615 HTG#2* remained in service for up to one and a half months on average of continuous use.

A 300% increase in bearing life and valuable improvements in safety and reliability was obtained.



Locomotive under maintenance.



Applying *Chesterton 615 HTG #2*



Bearing ready for use.