

# HEPI WHEEL END TECHNOLOGY EXTENDS LIFE AND LOWERS TOTAL COST OF OWNERSHIP

## CASE STUDY

**Location** | Powder River Basin, Wyoming, USA

**Application** | 793 Haul Truck

**Product** | HEPI Enhanced 793 Wheel Group

## OVERVIEW

H-E Parts International (HEPI) provides solutions for the entire drivetrain, specializing in the re-manufacturing of major mobile equipment components, and offers industry leading HEPI products. The enhanced design and features of HEPI products deliver extended life, ease of maintenance, and superior performance.

## SITUATION

A customer in Wyoming, USA saw HEPI present at the Rocky Mountain Mechanics Association and approached our team in hopes of reducing their maintenance costs and extending fleet life. The customer was experiencing unpredictable maintenance schedules, and found their wheel end was producing a service life of less than 12,000 hours, leaving them with constant maintenance to the component and costly services. Hoping to increase service life, the customer approached the HEPI team for assistance.

## SOLUTION

After the HEPI engineering team evaluated the customer cores and analyzed historic modes of failures, our team estimated that our HEPI enhancements would improve average life by at least 60%. A re-manufacturing plan was agreed upon and eight enhanced wheel groups were installed with the following enhancements:

- HEPI Control Fit Wheel Bearing Setup
- Contamination Guard
- Isolation Seal
- Advanced Bearing Design and Specifications



# HEPI

Mining Solutions



## RESULTS

The eight HEPI enhanced wheel groups lasted an average of five years, or 32,000 service hours, delivering an increased life to the customer of over 150%.

**150%**

**INCREASE**  
in wheel group  
service life

**32,000**

**SERVICE HOURS**  
From 12,000 hours to  
32,500+ hours after  
rebuild



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