

ENGINE REBUILD INCREASES ENGINE LIFE BY 6,000 HOURS

CASE STUDY

Location | Colombia, South America

Application | CAT 793 Haul Truck

Product | CAT 3516 Engine Rebuild



OVERVIEW

HEPI specializes in engine rebuilds that improve performance and lower total cost of ownership.

Utilizing our advanced engineering and technology, H-E Parts provides our customers tailored solutions and superior, longer lasting engines.

SITUATION

A customer in Colombia, South America was having repeated engine issues on CAT 793 haul trucks. They needed to increase fleet operating hours while lowering overall cost per hour. The customer's engine life decreased by 20 to 30% after first rebuild with their previous supplier. A third rebuild routinely only provided a third of the hours experienced with a brand new engine.

CUSTOMER NEEDS

The customer needed longer engine life, and desired an increase in fleet operating hours while lowering overall cost per hour. H-E Parts was asked to improve the previous engine life of 14,000-16,000 hours with minimized fretting wear that results in costly replacement parts.

SOLUTION

Our team provided key solutions to the customer, such as advanced machining processes and balancing services to drastically reduce the torsional vibration. By decreasing vibration, operator's comfort increased and downtime decreased.

- Overall Engine Balancing
- Cylinder Head Reconditioning
- Magnaflux/Crack Testing
- High Performance Engine Testing
- Connecting Rods
- Honing
- Crankshafts

RESULTS

These improvements have allowed our customer to keep the engine running longer with a significant decrease in cost per hour of operation.

41%

INCREASE
in overall engine life

6,000

MORE HOURS
14,00-16,00 hours to
18,500+ hours after
rebuild



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