



CATERPILLAR 793B

Suspension and stabilizer pin lifecycle is 5 times longer with Expander System



EXTENDED LIFECYCLE

From 10,000 hours to 50,000 hours

FASTER INSTALLATION

12 times faster than previous repair methods

REDUCED MAINTENANCE

Expander System eliminates movement that causes wear

COST SAVINGS

Dramatic cost reduction compared to regular repairs

THE CHALLENGE

Long maintenance-related downtime and costly bore damage

KEC is the exclusive distributor of Komatsu off-road equipment in Nevada, Utah, and Wyoming. A coal mining customer working in the Powder River Basin had a large fleet of CAT 793B trucks and was concerned about the cost and downtime they had associated with repairing the stabilizer and suspension pins.

The conventional pins were making contact with the parent metal of the lug ears. The maintenance crew found that this was causing damage to the lug-ear bores on each machine they worked on. To repair the damage, they welded and line bored the lugs, which made the maintenance process time-consuming.

THE SOLUTION

No more welding or line boring

Expander System provided a way to prevent lug wear and bore damage permanently. The pivot pins were easy to install and eliminated welding and line boring entirely.

KEC provided an on-site trial of Expander System suspension and stabilizer pins, and tests demonstrated that the sleeve took up all the wear in the bore.

All trucks were eventually outfitted with the pins, and the Expander System has become the standard for repairing the entire fleet.



MINING & MINERALS SUCCESS STORY



LOCATION

Mining – Wyoming, USA

APPLICATION

CAT 793B mining trucks

CUSTOMER

Komatsu Dealer
KEC Wyoming

PRODUCT

Expander System
Stabilizer and Suspension Pins

THE TEST IN THE POWDER RIVER BASIN SHOWED HOW QUICK AND EASY EXPANDER SYSTEM PIN INSTALLATION IS. WELDING AND LINE BORING WERE COMPLETELY ELIMINATED, AND THE EXPANDER SYSTEM SIGNIFICANTLY REDUCED LONG-TERM MAINTENANCE REQUIREMENTS.



THE OUTCOME

Reduced truck downtime and extended pin lifecycle

Thanks to the Expander System stabilizer and suspension pins, KEC achieved dramatic cost and time savings on maintenance. Installation is 12 times faster – it only takes 1 hour, compared to the previous process which took an entire 12-hour shift. The pin lifecycle has extended from 10,000 to 50,000 hours. Expander System pivot pins have now been successfully used in CAT trucks operating in many countries around the world.



FIND OUT MORE

Founded in Sweden, in 1986, Expander System is the creator of the original pivot pin technology that permanently eliminates lug wear. The result over an entire lifecycle is increased uptime, savings on maintenance costs and a safer work and public environment. We have the largest standard range on the market, as well as a vast experience to create custom solutions to solve our customers' unique challenges.

Expander System is part of the Nord-Lock Group, a world leader in secure bolting solutions that offers a range of innovative technologies, including Nord-Lock wedge-locking, Superbolt multi-jackbolt tensioning, Boltight hydraulic tensioning and Expander System pivot pin technology.

Find out how the Expander System can solve your bolted challenges at Nord-Lock.com

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