



## MINING & MINERALS CASE STUDY

# CAT 777D HAUL TRUCK - REAR AXLE LINK

## THE CHALLENGE

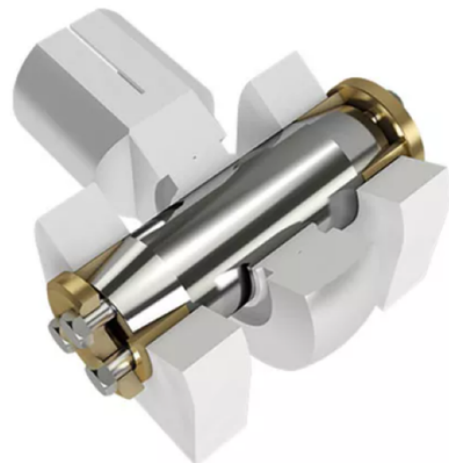
A mining service contractor in South Kalimantan, Indonesia, faced frequent issues with the rear axle link pivot pin joint on their CAT 777D trucks. They needed to perform line boring every 4,000 hours, which resulted in significant machine downtime.

## THE SOLUTION

Expander<sup>®</sup> System is a pivot pin solution that include sleeves on a tapered axle, when tightened conforms to the lug hole removing any play/tolerance, thus eliminating wear. When the sleeves expand, they eliminate play in the housings and distribute the joint load evenly, reducing stress points and increasing performance.

## THE OUTCOME

After installing Expander System, the pin life was extended to 12,000 hours. The need for line boring was eliminated, saving three days of downtime and labor costs for the customer. Overall maintenance costs were reduced by over 80% within the 12,000-hour period, increasing the haul truck performance.





## ADVANTAGES

- **Reduced Downtime:** Install the Expander® System pivot pin without welding or line-boring
- **Cost Savings:** Prolongs the lifecycle of the pin, bearings, and seals
- **Durable & Reliable:** Distributes pressure more evenly to create a tight fit
- **Safer Installation:** Pins are easy to remove without lancing or injury



## FIND OUT MORE

Founded in Sweden, in 1986, Expander System created the original pivot pin technology that permanently eliminates lug wear. Since then, we have successfully carried out over two million installations involving many different types of pivot assemblies for thousands of machine makes and models. Using the Expander System results in increased uptime, savings on maintenance costs and a safer work and public environment.

Expander System is part of Nord-Lock Group, a world leader in secure bolting solutions that offers a range of innovative technologies, including Nord-Lock® wedge-locking washers, Superbolt® multi-jackbolt tensioners, Boltight® hydraulic bolt tensioners and Energy Bolting safety critical fasteners.

Find out how Expander System can solve your bolting challenges at [Nord-Lock.com](https://www.nord-lock.com).

Expander  
expander@nord-lock.com  
www.nord-lock.com

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