

TIMKEN® DEBRIS-RESISTANT BEARINGS DOUBLE SERVICE LIFE

CHALLENGE ▼

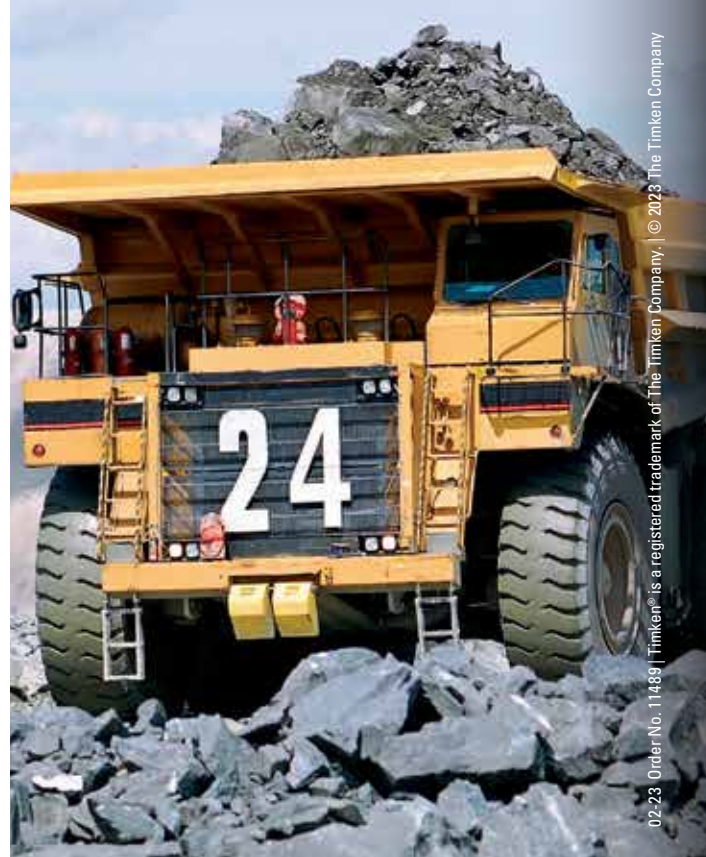
Haul trucks are the workhorses of surface mining – moving hundreds of tons with every load. In these harsh conditions, a truck’s wheel ends are constantly exposed to heavy loads, low speeds, elevated temperatures and debris. For one Australia-based customer, replacing wheel end bearings after 20,000 hours of operation was standard practice. The cost to replace wheel end bearings can range from \$30,000 to \$40,000 per truck. Controlling this cost is an ongoing challenge.

TIMKEN SOLUTION ▼

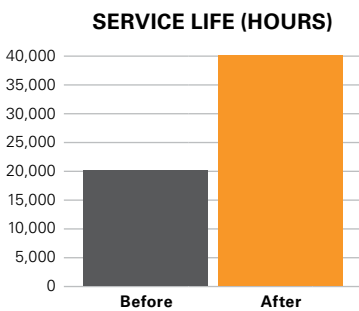
Our Australian-based customer uses Timken debris-resistant bearings for haul truck wheel ends. With proprietary heat-treatment or a diamond-like coating technology, these tapered roller bearings are designed to interrupt adhesive wear and can even self-repair microcracking. At the 20,000 hour inspection, our customer found no significant wear on the rollers and cup raceways on the debris-resistant tapered roller bearings. The bearings were approved for an additional 20,000 hours.

RESULTS THAT MATTER ▼

When the haul truck reached the next 20,000 hour check, Timken debris-resistant bearings in the wheel ends met the challenge. As a result, the service life of its wheel end bearings doubled – increasing from 20,000 hours to 40,000 hours. Over the next 24 months, our customer is projected to save the mine operator \$1.1 million through reduced downtime and maintenance costs.



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PROJECTED SAVINGS
OVER TWO-YEARS
\$1.1 MILLION



The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.