



Moving Mining Forward™

Press Kit



KalTireMining.com
Electra 2026



Moving Mining Forward™

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Kal Tire brings AI-enabled tyre management and safer service innovations to Electra Mining Africa 2026

JOHANNESBURG, SOUTH AFRICA—As mines strive to increase productivity while reducing risk, costs and carbon footprint, Kal Tire continues to advance its KalPRO™ technology and innovation offerings. At Electra Mining Africa 2026, Kal Tire showcases solutions that combine AI, data and expert teams to enable faster, trusted actions. The company also features the latest innovations in tyre management tooling, designed to make critical work around the wheel safer and smarter.

“Our goal is to help customers solve some of their most pressing challenges and make tyre work as safe as possible for technicians,” says John Martin, vice president, Southern Africa, Kal Tire’s Mining Tire Group. “That commitment continues to drive innovation across an ecosystem of offerings, driving operational improvements across tyre performance, fleet availability, safety, environmental impact and more.”

At Electra, Kal Tire demonstrates new AI capabilities in KalPRO TOMS (Tire & Operations Management System), designed to reduce tyre-related downtime, typically by 20 per cent, by automating planning forecasts, prioritising tyre work and aggregating tyre work more effectively. Beyond the day-to-day productivity gains, sites served by TOMS can elevate their strategy to one that’s proactive and informed by how tyre work impacts fleet use.

TOMS also serves as the planning hub for KalPRO TireSight and HaulSight autonomous inspections. Powered by Pitcrew AI thermal cameras and AI-detection software, TireSight helps mines identify early signs of tyre issues, such as hot spots or tread damage. HaulSight uses truck-mounted Decoda LiDAR and camera sensors to provide instant alerts of haul road hazards such as spillage, undulations and non-compliant berms. Both systems have the oversight of 24/7 condition monitoring teams to assess and prioritise flagged issues, enabling faster haul cycles, less downtime, longer tyre life and better fuel efficiency.

“The value is not just in detecting issues – it is in what happens next,” says Martin. “By combining autonomous inspections with expert analysis and priority-based planning, alerts turn into actions, helping trucks spend more time hauling.”

Kal Tire also features its latest tooling innovations developed to address two critical activities in mining tyre maintenance: inflation and wheel inspections. The KalPRO Goliath-25 is a heavy-duty, web-like containment enveloping the tyre and wheel assembly during inflation, helping to contain components should a catastrophic failure occur. Additionally, the latest version of KalPRO Argus, an on-site wheel inspection solution, uses electromagnetic non-destructive testing technology to detect wheel cracks before they lead to failures, downtime or safety concerns.





“Goliath-25 will help protect technicians from severe hazards while Argus will help remote mines ensure wheels are safe for use,” says Martin. “We continue to look for ways to advance safety, efficiency and value for our team members and customers.”

As mines work to reduce emissions and demonstrate progress against sustainability objectives, Kal Tire supports customers with solutions that help lower the environmental impact of mining tyre management. These include tyre life solutions such as retreading and repairs, as well as sustainability initiatives like the KalPRO Maple Program and KalPRO Thermal Conversion recycling technology.

The Maple Program provides customers with data to demonstrate their sustainability achievements. Annual certificates highlight the mine’s actual emissions savings by choosing Kal Tire retreads or repairs. Certificates also include emissions saved in logistics with regional retreading or repairs versus overseas shipping of new tyres.

To help mines solve the challenge of end-of-life mining tyres, and make the best use of recycled rubber, Kal Tire developed its Thermal Conversion recycling technology, in use at its facility in Chile since 2021. The process transforms end-of-life tyres into valuable commodities: steel, oil and carbon ash for use in a variety of industrial applications.

“What customers gain from the offerings we are exhibiting at Electra Mining 2026 is the ability to make better tyre decisions with greater confidence – decisions that help improve safety, reduce downtime, extend value, manage environmental impact and keep equipment moving,” says Martin. “By bringing together technology, data and experienced teams, we are helping mines turn complex tyre challenges into practical actions that support stronger, more sustainable operations.”

About Kal Tire

Kal Tire is one of Canada’s largest independent tyre dealers and one of North America’s largest commercial tyre dealers with warehouse facilities strategically located across Canada servicing over 280 Kal Tire retail and commercial stores. Kal Tire’s Mining Tyre Group is an international leader providing mining tyre service and supply to more than 230 mine sites across five continents. The company owns and operates five OTR retreading facilities located in Canada, West Africa, Chile and Mexico. Kal Tire employs approximately 7,000 team members. For more information on Kal Tire’s Mining Tyre Group, please visit kaltiremining.com/en/



TOMS: Helping mine sites reduce tyre-related downtime by up to 20%

The future of tyre service is strategic and planned – transforming individual service events into smarter decisions that enable higher fleet productivity. As sites work to improve efficiency, safety and cost control, there is a growing opportunity to bring tyre work into the broader maintenance plan, helping teams make more informed decisions, reduce disruption and get more value from every asset.

Kal Tire's TOMS (Tire & Operations Management System) is foundational to the company's mining tyre service offering. "TOMS is a maintenance planning system at heart," says Mark Goode, director, business insights, Kal Tire's Mining Tire Group. "It allows tyre work to be more seamlessly integrated into your maintenance plan, and with AI now embedded, we can enable informed, collaborative decisions to support better planning and fleet availability. Thanks to AI, we typically see an opportunity to reduce tyre related downtime by 20%. On one site, TOMS helped deliver a reduction in tyre downtime events by over 35%."

At site level, the embedded AI in TOMS aggregates inputs from inspections, sensors, planned rotations and change-outs to provide a clearer picture of tyre condition, performance and upcoming maintenance requirements. This visibility enables planning teams to schedule tyre work alongside other planned maintenance activities.

"What we hear customers say, is that having a haul truck down for one scheduled event rather than two separate occasions results in meaningful productivity gains," says Goode.

TOMS uses tablets for inspection and tyre change data collection and for ensuring site teams have the latest information at hand.

The platform supports near real-time dashboards and reporting and integrates with dispatch, TPMS and enterprise platforms. This reduces data handling and improves visibility across teams. It is also the planning hub behind KalPRO™ TireSight autonomous tyre inspections and KalPRO HaulSight autonomous haul road hazard detection.

As mines adopt automated data collection, TOMS is increasingly used to support condition-based maintenance. With TireSight, tyre issues such as heat, tread damage or separations can be identified and reviewed by Kal Tire's condition monitoring experts before TOMS integrates the resulting work into the tyre maintenance workflow. With HaulSight, road hazards such as spillage, undulations or other conditions affecting tyre and truck performance can be flagged, validated and prioritised so customer operational teams can respond efficiently.

"What makes TOMS so valuable is that it turns tyre management from a reactive service activity into an integrated part of fleet performance," says Goode.

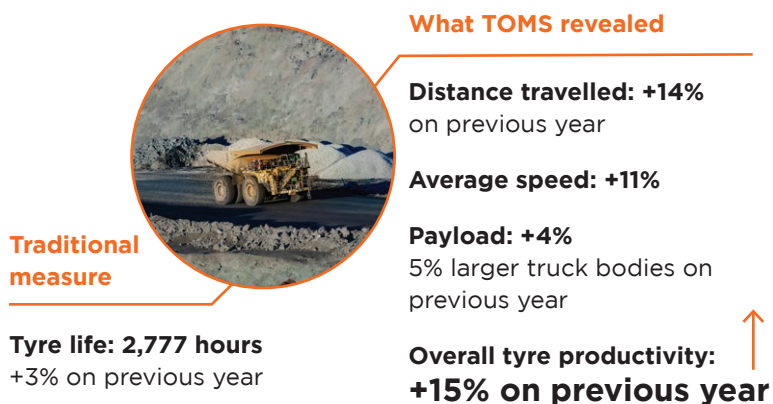
"When teams can see information at the right time and can act on it together, the results are tangible, from fewer unplanned events to a marked reduction in tyre-related downtime," adds Goode. "That is the kind of impact that supports safer, more productive and cost-effective mining."

TOMS case studies

Productivity insights: Measuring more than just tyre hours

Challenge: Tyre performance is traditionally measured in operating hours, but hours alone do not show how hard a tyre has worked or the value it delivered.

Case Study: Using TOMS, Kal Tire combined customer dispatch data from trucks, including operating hours, distance travelled and payload to create a more complete view of tyre performance – giving valuable insight into the value the tyre has delivered.



Outcome: Rather than simply reporting a 3% increase in tyre life as traditional tyre management systems do, **TOMS demonstrated that the fleet moved more material, travelled further and operated more productively.** These insights help both the mine and tyre manufacturers make better operational decisions.

TOMS keeps on top of pressure management

Challenge: Correct tyre pressure is essential for maximising tyre performance and life. However, maintaining inspection schedules and identifying overdue equipment across a large fleet can be difficult.

Case Study: TOMS tracks inspection compliance and pressure accuracy across the fleet, allowing teams to easily identify overdue inspections and monitor the percentage of tyres operating within their target range.

Compliance metrics lets teams easily see if equipment is being inspected within the expected schedule, and heat maps and prioritised lists enable teams to see which equipment is overdue for inspection and when it was last inspected.

Results
Pressure accuracy **improved over 30%.** ↑

How TOMS Helped



Outcome: TOMS gives service teams clear visibility of inspection compliance and pressure management, helping ensure equipment is inspected on time. Overdue equipment is prioritised and correct pressure maintenance **allows tyres to operate at their optimum performance.**

Autonomous inspections turning minesite data into action

For mine operators, the challenge is not collecting more data. It is knowing which issues need action, when to act and how to reduce risk without slowing production. Kal Tire's KalPRO™ TireSight and KalPRO™ HaulSight help mines turn inspection data into prioritised decisions that improve tyre life, productivity and safety.

Together, the systems provide autonomous visibility across two critical parts of a haulage operation, the tyres on the truck and the road beneath it. TireSight, powered by Pitcrew AI, identifies tyre-related risks such as hot spots, tread damage and belt edge separations as trucks pass through inspection stations without needing to stop. HaulSight utilises Decoda's LiDAR and camera sensors on the front and rear of the truck to provide instant alerts to haul road hazards such as spillage, undulations, high G-force zones and non-compliant berms.

The strength of these offerings is that they don't leave it up to site teams to interpret a high volume of alerts. Kal Tire combines autonomous inspection technology, AI-driven detection, experienced 24/7 condition monitoring analysts, TOMS (Kal Tire's Tire & Operations Management System), and site-level planning in a single workflow. Together, they filter findings, validate priorities and trigger the right next step. Technology is only part of the solution – it takes human expertise to turn data into decisions that mine operations can trust.

“That workflow gives site teams stronger control over tyre risk, and HaulSight's ability to detect road hazards, means mines can prevent the tyre damage that TireSight detects,” says Christian Erdelyi, technology services director, Kal Tire's Mining Tire Group. “Additionally, our condition monitoring analysts are a team of engineers, working 24/7 reviewing all required scans to ensure no truck slips through that may have an issue.”

HaulSight helps teams detect and prioritise hazards that affect speed, fuel efficiency, tyre life and component stress. TireSight provides visibility into whether a critical event triggers an escalation for a truck to stop, or if a tyre needs repair and can be planned to take place during scheduled truck maintenance.

HaulSight also supports longer-term decision-making through severity scoring and trend data. By showing where road conditions are affecting performance, the system helps planning teams decide where maintenance or capital improvements will deliver the greatest operational return.

Value realization is the only metric that matters in mining maintenance. AI can identify anomalies at scale, but mine operations need recommendations grounded in site context, customer priorities and real operating conditions.

“Our technology offerings help customers act on the issues that matter most, reduce risk, protect production and support better planning across the haulage operation,” says Erdelyi.



25 systems in operation across Canada, Australia, Chile, Colombia

At a Canadian operation, average cycle speeds increased by 24%, tyre life declined by 40% and there was an increased number of tyre fires.

TireSight enabled 49% of the fleet to be monitored on a 4-hour inspection. Within the monitored portion of the fleet, **tyre fires were reduced to zero**, and 37 potential fire events were prevented over a 12-month period.

**KALPRO** HaulSight

14 systems in operation across Canada and Australia



At a Chilean copper mine, 235 vehicles passed a TireSight inspection station in a 7-day period.

Damage was identified in 16% of the thermal image scans, **TOMS** business rules determined **only 5% needed to be manually inspected**, triggering 2 work orders, contributing to a **20% reduction in downtime**.

Innovation designed for the realities of mining tyre maintenance

Tyre inflation and wheel inspections are two critical maintenance activities where missed steps or undetected defects can have serious consequences. Catastrophic tyre failures can expose tyre technicians to severe safety hazards, while undetected wheel cracks can lead to costly downtime and asset loss.

Kal Tire's latest innovations being showcased at Electra Mining Africa 2026 are designed to help mines manage both challenges: The KalPRO™ Goliath-25, designed to contain high-energy tyre failures during inflation, and the latest generation of KalPRO Argus, an on-site wheel inspection system to detect cracks before they become costly failures.

A new layer of protection during tyre inflation

Inflation remains one of the highest-risk activities in tyre maintenance. If rim or tyre components have been compromised or incorrectly installed, a rapid deflation event can result in a violent release of energy. Technicians are meant to stand outside the tyre's trajectory zone during inflation, but accidents can still occur if safety steps are missed or someone is in the wrong place.

The Goliath-25 was developed to provide an additional layer of protection during this critical task. Designed to wrap around the tyre and wheel assembly, the system uses a heavy-duty nylon containment structure resembling a web and continuous anchoring strap to help contain wheel and rim components should a catastrophic failure occur.



"While established safety procedures remain essential, Goliath-25 provides another level of protection for technicians performing inflation work," says Kyle Madill, manager, innovation and research and development, Kal Tire.

The first model has been developed for 25-inch tyre assemblies, with additional sizes under development. Tested in controlled environments, Goliath-25 represents a practical innovation focused on protecting lives and helping service providers manage one of the industry's most significant safety risks.

Bringing wheel inspections closer to the mine

Traditionally, wheel inspections often require rims to be shipped long distances to specialised facilities, adding transportation costs, extending turnaround times and potentially removing serviceable assets from operation. Argus, a portable wheel inspection solution, helps eliminate those inefficiencies by bringing advanced inspection capabilities directly to the customer.

Using electromagnetic non-destructive testing technology, Argus scans critical areas of the wheel for cracks and other defects, helping identify issues before they progress into failures that can lead to downtime, costly repairs or safety concerns.

The latest version features a redesigned universal probe that follows wheel contours more effectively, including weld areas, simplifying inspections while improving technician efficiency. It is adjustable to inspect 51", 57" and 63" wheels. Already supporting operations in Latin America, Argus will continue to be introduced to additional remote mine sites to help make faster, more informed maintenance decisions.

"The goal of innovation at Kal Tire is to solve real challenges maintenance teams face every day," says Madill. "With Goliath-25, we're adding another layer of protection during tyre inflation, and with Argus, we're giving mines a faster, more practical way to detect wheel cracks before they lead to failures, downtime or safety concerns."



Progressive Innovation

KalPRO tools

WheelJaws: Secure, remote-controlled clamps for safer tyre removal

Takes technicians out of harm's way during the installation and removal of the tyre and wheel using a remote-controlled clamp mechanism securing the assembly.

GATR: Gravity Assist Tooling Rig for weightless tool operation

Supports the weight of heavy hand tools such as torque guns so technicians can perform tasks with less fatigue, fewer injuries and more precision.

VGRIPS: Magnetic holder secures and protects air valves

Secures and stabilises valve stems to prevent abrasion, leaks and damage. With a strong magnetic base, VGRIPS stays firmly attached to the wheel to protect valve stems from abrasion during wheel rotation. Universal fit and no modifications needed.

RamDrive: Secures rams for safer bead breaking

Holds the ram securely so technicians can break the bead during tyre removal in a way that's efficient and eliminates risk.

ValveShield: 100% success in preventing valve stem damage

Prevents flying rocks from displacing valve stems, which can cause leaks, tyre damage and downtime. Mounted over air valves and with stable yet removable magnetic backing.

TorqBlade: Controlled removal of seized wheel nuts

A mechanical splitter that removes seized wheel nuts without damaging the wheel stud. Using a torque wrench to apply controlled force, it helps technicians work more safely and efficiently while avoiding grinding or cutting.





KalPRO™ Maple Program carbon footprint methodology now independently verified to ISO 14064-3

Since launching in 2019, the Maple Program has helped mining companies quantify the environmental value of extending tyre life through repair and retreading instead of purchasing new tyres. Now, the program's carbon footprint methodology has been independently verified in accordance with ISO 14064-3 by SCS Global Services, a global leader in third-party environmental verification. This milestone gives customers greater confidence that reported carbon savings are credible, transparent and based on recognised greenhouse gas accounting principles.

In 2025, 70 mining customers across six regions used the Maple Program to measure the environmental impact of their tyre replacement strategies. Together, they demonstrated more than 32,700 tonnes of calculated CO₂ savings, with Kal Tire tracking more than 3,200 retread and repair activities that extended tyre life and reduced the reliance on new tyre production.

These results underscore the important role extending tyre life can play in helping mines advance both operational and sustainability objectives.

The ISO-verified program calculates carbon savings by comparing the total lifecycle carbon footprint of two options that deliver the same tyre service life: replacing a damaged or worn tyre with a new equivalent, or extending the life of the existing tyre through repair or retreading. The difference between those two lifecycle carbon footprints represents the calculated carbon savings. This like-for-like comparison provides a consistent approach that customers can use to support emissions reporting and sustainability communications.

Each year, customers receive Maple Program certificates summarising their calculated CO₂ savings. The certificates provide documentation mines can use to demonstrate the environmental benefit of extending tyre life and supports Scope 3 emissions reporting. The program includes Kal Tire's tyre life extension services, including retreading, KalPRO Ultra Tread, conventional repairs and KalPRO Ultra Repair, supporting tyre sizes from 25 to 63 inches.

"Independent verification to an ISO standard represents an important milestone for the Maple Program and the value it provides to mining operations," says Darren Flint, vice president, tyre lifetime services, Kal Tire's Mining Tire Group. "Customers can have greater confidence in the carbon savings associated with repairs and retreading, and use those results to support credible, consistent sustainability reporting."

KALPRO™**MAPLE
PROGRAM**

In 2025, 70 mining customers
recorded a combined total of:

32,700 tonnes
of calculated
CO₂ savings



702,500 litres
of oil savings



The Kal Tire Way: A global standard for safe tyre service

While a Kal Tire technician on a manganese mine site near Hotazel safely inflates the rear tyres that have just been installed on an articulated dump truck, in Johannesburg, a retreading technician conducts a final inspection of a newly recapped 22.5-inch tyre to give the casing a second life. How does Kal Tire ensure team members at both sites—and at sites across five continents—are working to the highest standards of safety?

“We train all of our technicians to an industry-leading international standard, the Kal Tire Way,” says John Martin, vice president Southern Africa, Kal Tire’s Mining Tire Group.

“For us, it’s critical that whether a team member is in Southern Africa or Western Australia, they’re working consistently and as safely as possible,” adds Martin.





The Kal Tire Way

Kal Tire's in-house training program features a Learning Management System (LMS) that offers hundreds of training modules in multiple languages, along with pictorial safe work instructions and safe work procedures specific to each equipment and job type.

“When we have procedural updates, we can instantly communicate that to team members around the world,” says Martin.

Training is led by company-accredited mentors and assessors delivering the highest quality instruction. Trainees are assessed on both technical learning and hands-on competency during in-field evaluations, ensuring tasks can be performed safely and to standard.

“Our mentors play an important role in guiding the skills development of our technicians,” says Martin, adding in Southern Africa, more than 10 Kal Tire mentors and assessors are leading safety and training.

Operations process committee

An Operations Process Committee, comprised of Kal Tire leaders in every region they operate in, oversees the continuously evolving Kal Tire Way to define and refine the standard for all sites. Beyond reviewing and defining practices, procedures, technical bulletins and assessment documentation, the committee also ensures the Kal Tire Way training programs and LMS content are aligned with those approved standards.

Then, the committee is responsible for maintaining the Kal Tire Way with operational standards audits, evaluations and critical risk and controls verification—confirming effectiveness, identifying gaps, and reinforcing consistent performance across sites.

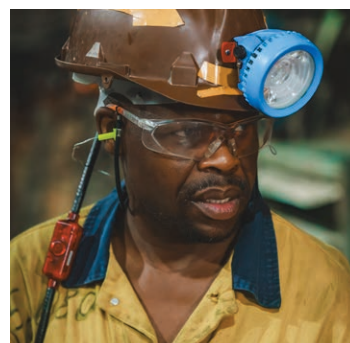
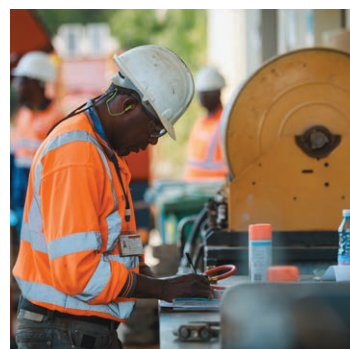
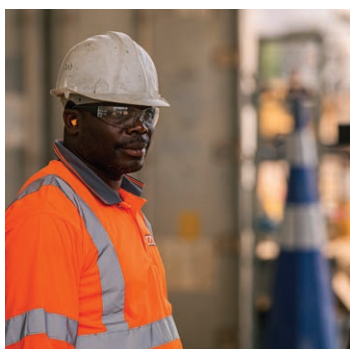
“Operations Process doesn't just write standards—we define expectations, enable the business to meet them, and assure leadership that they are working in practice, everywhere.”

Rules to Live By

In the day to day, leaders are inspired to ensure all team members return home safely each day with Kal Tire's 'Rules to Live By.'

The rules clearly state eight rules to follow during some of the most high-risk tyre service tasks as well as three 'deadly sins' outlining extremely hazardous behaviour.

“The rules are a simple way to help us keep up compliance,” says Martin. “Every country where we operate has its own culture, but we can all connect to the idea of wanting to make it home safe and healthy every day to partners and children.”



Proudly uplifting the communities we serve

Across Southern Africa, you can find our teams rolling up their sleeves to support students and families as well as wildlife and recycling initiatives.

The Wheels on the Bus

A home for persons with disabilities in Randfontein gets new wheels on their community bus.

Rugby Students on Tour

Rustenburg students receive sponsorship for Rugby tour.

Shoes for Walking

Lydenburg students given new shoes for school.

Elephant Charge Fundraiser

Supporting wildlife conservation in Zambia.

Empowering Female Students

Gauteng outreach project distributes sanitary pads to schoolgirls.

Tyre Recycling for Good

Tswane NGO receives tyre tubes for making goods with recycled products.

A Milestone Adventure

Northern Cape youth community goes on a transformation camp.

The Most Important Journey of the Day

Madibeng school receives support for new school bus.

There Is a Father Christmas

Rustenburg students gleefully unwrap gifts and meet Santa.

Water in Welkom

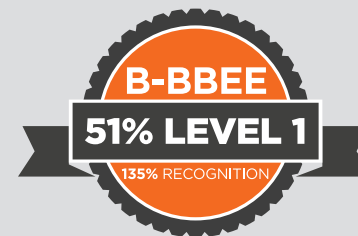
Students enjoy clean water with freshwater tanks.

Feeding the Nations

Daily meals are provided for Skeerport learners.

Water, the Gift of Life

Nega Nega community in Zambia gets a new borehole.



Achieving B-BBEE Level 1 in South Africa

As part of our commitment to transformation, development and inclusion, Kal Tire has achieved Level 1 Broad-Based Black Economic Empowerment (B-BBEE) certification for three consecutive years.

From feeding school children and providing learnerships for youth to supporting emerging local businesses and choosing B-BBEE aligned small suppliers, we're building stronger relationships with communities and we're contributing to sustainable growth across South Africa.

"Maintaining B-BBEE Level 1 has become a part of our culture," says John Martin, vice president Southern Africa, Kal Tire's Mining Tire Group. "We're always looking at what we can do better and what else we can do. We treat B-BBEE not as a project that ended, but a living process."



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