Continental
The Future in Motion

Safety by Continental

Enhancing Fleet Reliability Through Digital Tire Management

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Safety by Continental Whitepaper

INTRODUCTION

1. Safety across fleets

Fleet operations are running closer to the edge than ever: heavier loads, tighter schedules, and more complex routes leave little margin for error. In this environment, any unplanned stop becomes both a productivity issue and a safety exposure. Smart monitoring transforms uncertainty into foresight: by digitizing tire data, fleets gain time to react before small issues escalate roadside. Continental's ContiConnect platform was built for precisely this challenge, continuously observing tire pressure and temperature to highlight risks early and enable timely intervention.

The story of **Eggers Spedition** shows what this looks like in practice. After equipping its trailers with ContiConnect, Eggers cut on-the-road punctures by around two-thirds, improved delivery reliability, and extended tire life—results achieved by catching pressure loss and temperature deviations early and taking action before routes were affected.

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"Reducing tire damage was a key reason for choosing ContiConnect. The return on investment came in the second year, as on-the-road punctures — and costly external repairs — dropped significantly. This not only improved our delivery reliability, but also reduced fuel consumption and extended tire life. For me, it's a clear win-win."

Peter Eggers, Eggers Spedition GmbH

2. Tires as a High-Impact Safety Component

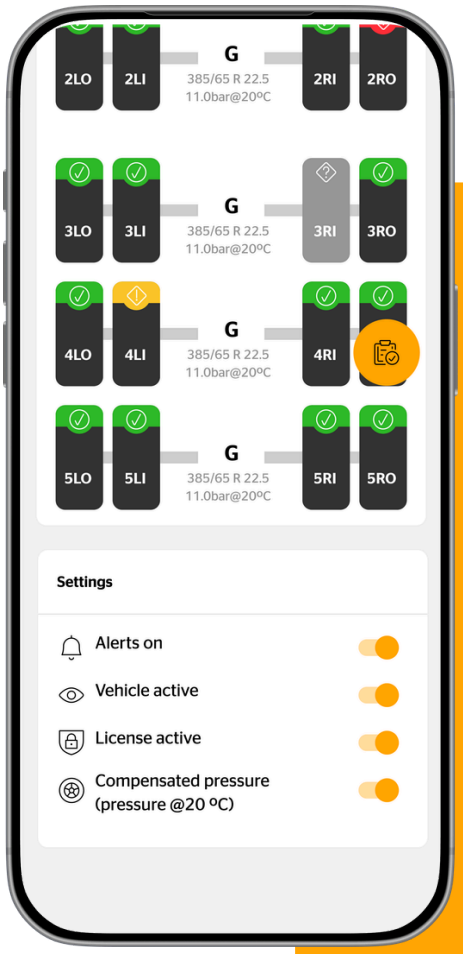
Tires directly influence vehicle stability, braking behavior, and load security—especially under heavy or oversized haul conditions. The most frequent causes for tire incidents are pressure deviations and heat build-up that develop gradually and can remain invisible during periodic manual checks. Continuous, sensor-based monitoring closes this visibility gap by tracking pressure, temperature and mileage inside each tire and display out-of-range values immediately.

At Eggers, the operational stress on tires raised a clear question: how to see hidden risks early enough to intervene without disrupting time-critical transport. By adding tire sensors and connecting them to ContiConnect, the fleet obtained a live view across all trailer tires and automated alerts, turning undetected pressure loss into a manageable maintenance task and reducing the likelihood of roadside failures.

3. Digital Tire Management as a Safety Enabler

Manual inspections are episodic; digital monitoring is continuous. Continental's sensors sit on the inner liner to capture true tire pressure and temperature, feeding the ContiConnect platform, which analyzes the data and notifies the fleet when readings drift outside set thresholds. The result is a practical form of risk prevention: more predictable operations and fewer surprises in the field.

Eggers implemented ContiConnect across its trailers and reports materially fewer punctures, measurable fuel savings, and longer tire life—outcomes that support safer, more reliable transport by avoiding tire-related incidents on route.



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85% fewer tire-related breakdowns due to continuous real-time monitoring that detects pressure and temperature deviations before they escalate.

20% longer casing life due to consistently correct inflation supported by accurate, sensor-based tire data.

4% better fuel efficiency due to optimized tire pressure that reduces rolling resistance and heat build-up.

Source: https://www.continental-tires.com/de/

4. How ContiConnect Supports Safer Operations

What the platform delivers:

- **Real-time monitoring of key tire parameters** (pressure, temperature and mileage data).
- **Instant alerts** when values move outside safe ranges, sent to web portal, app, email, or SMS for targeted action.
- **Actionable insights** (not just raw readings), enabling planned interventions and reducing tire-related breakdowns.
- **Documentation & trend history for each tire:** Asset-level tracking for continuous improvement and auditability.

For Eggers, this greater visibility meant fewer interruptions, more route stability, and higher delivery reliability—benefits that matter most in oversized and heavy transport, where a single tire incident can halt an entire move.

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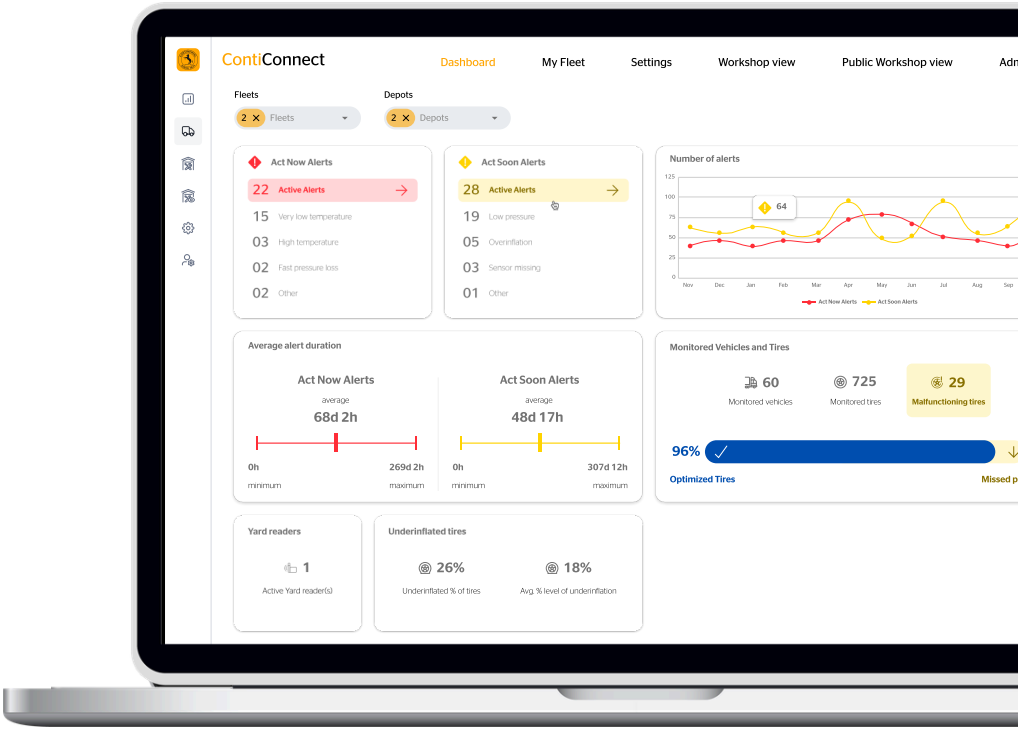

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5. Case Insight: Eggers Spedition GmbH

CHALLENGE

Heavy-load transport puts exceptional stress on every tire. For **Eggers Spedition**, this meant managing 720 tires across 120 trailers — a task that previously depended on manual checks and factory-installed TPMS systems that drivers could easily mute. As a result, critical pressure deviations often went unnoticed until they caused punctures or heat-related failures on the road. In some cases, trailer tires arrived with five bar on one wheel and seven bar on another, creating avoidable safety risks and unstable driving conditions. Combined with high fuel consumption and lower-than-expected tire mileage, Eggers faced reliability challenges that were particularly problematic for their food and beverage customers who rely on uninterrupted delivery schedules.

IMPACT

By equipping their trailers with Continental's ContiConnect system, Eggers gained visibility into tire pressure and temperature, supported by automated alerts via SMS, email, and the web portal. This allowed the fleet to act early — redirecting vehicles to a workshop before a slow leak or temperature rise turned into a roadside incident.

The impact was measurable: two-thirds fewer punctures, 20% longer tire life, and 0.5 L/100 km lower fuel consumption, leading to safer, more predictable operations and improved delivery reliability.

Eggers' experience demonstrates how continuous, accurate monitoring turns tire safety from a reactive challenge into a controlled, preventive process.

6. Tire Safety with ContiConnect Lite or Pro

ContiConnect Lite and Pro provide fleets with objective tire data that drivers, mechanics and fleet managers can act on immediately. Lite offers a simple, app-based entry point, giving teams direct access to pressure and temperature data via Bluetooth — ideal for quick checks before departure and fast responses to early deviations. Pro expands this into a full digital tire-management ecosystem, delivering fleet-wide visibility, automated warnings through a web portal and app. This combination of lightweight accessibility and full operational intelligence shifts daily routines from reactive troubleshooting to planned, data-guided maintenance.

By replacing periodic manual checks with digital monitoring, fleets significantly reduce tire-related breakdowns, stabilize operations and improve overall mileage. Properly maintained tire pressure enhances fuel efficiency and reduces the likelihood of costly roadside interventions. In practice, this means fewer unexpected stops, more controlled maintenance schedules, and a measurable boost in safety performance across the entire fleet.

ContiConnect Lite

gives fleets an easy, app-based way to check tire pressure and temperature instantly, enabling quick decisions before departure.

ContiConnect Pro

provides full digital tire management with automated alerts, and fleet-wide visibility for proactive, planned maintenance.

CONCLUSION

The Connected Future of Fleet Safety

Continental's smart tire management connects the component that meets the road to the people who keep fleets moving. By making tire health measurable and visible, ContiConnect helps fleets anticipate issues, plan interventions, and avoid on-route incidents, embedding safety into everyday operations rather than treating it as an after-the-fact response.

The Eggers case demonstrates the practical impact: when heavy-haul fleets continuously monitor critical parameters and act on clear alerts, they can materially lower punctures and disruptions, strengthen delivery reliability, and support safer, more controlled transport.


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