

Safety and Efficiency in Mining Operations through Tire Management

INTRODUCTION

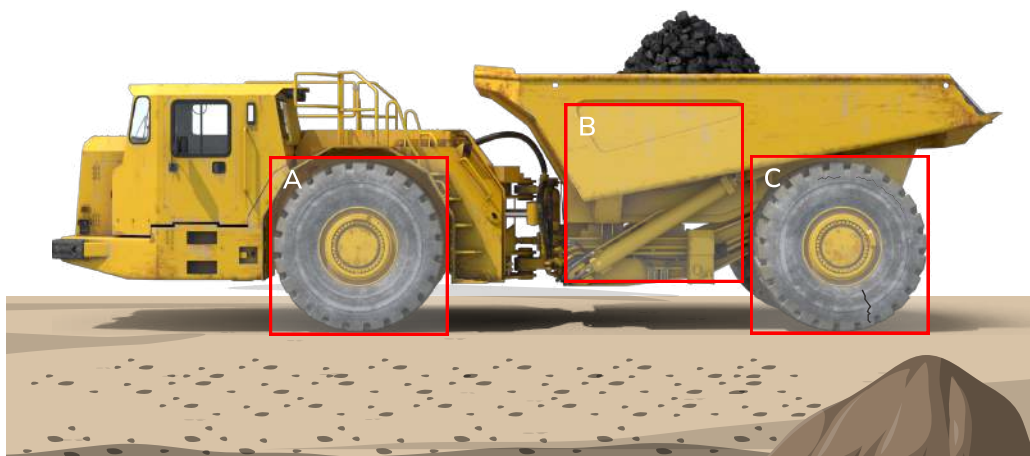
The mining industry is a sector that involves the exploration, extraction, and processing of minerals and other natural resources from the earth's crust. A mining company operates a large fleet of heavy equipment and manages a vast number of tires, which makes it difficult to keep track of tire performance and maintenance schedules. This can lead to downtime, safety incidents, and increased costs.

CHALLENGES

Mining company faced many challenges with tire management. Rugged terrain and heavy loads common in mining lead to **uneven wear on tires**. It affected overall tire performance and lifespan.

Overloaded trucks or equipment put extra strain on tires and cause **premature wear or failure**.

There was lack of real-time visibility into tire conditions, **inefficient maintenance scheduling**, a **lack of data analysis**, and **increased safety risks**.



SOLUTIONS

The implementation of tire management software helped address these challenges.

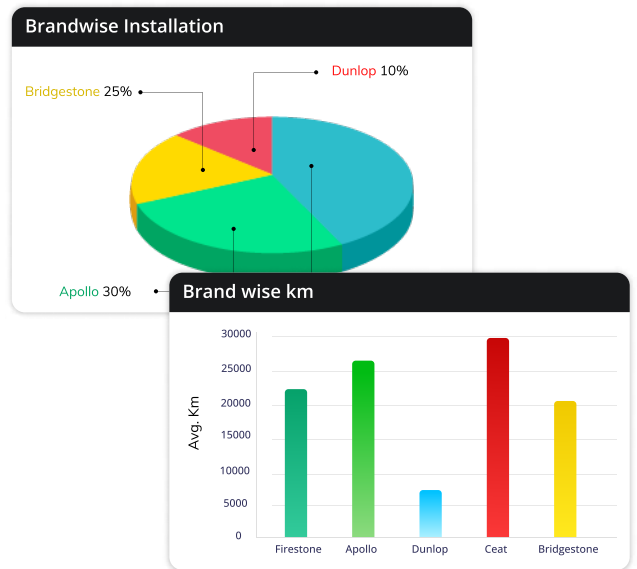
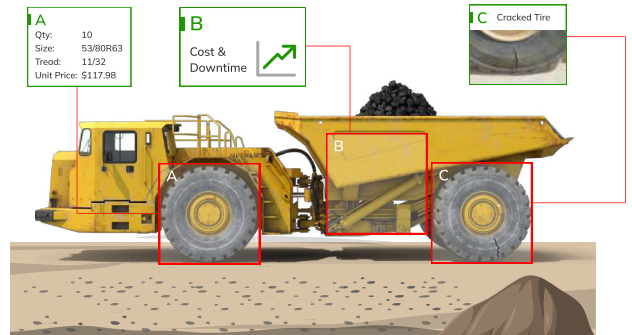
By implementing our tire management software, mining companies achieved **real-time visibility** into tire conditions.

With the inspection module, the company performed **regular tire inspections** and caught potential issues before they led to downtime or safety incidents.

The software included a **brand-wise tire installation chart** to track tire usage and ensure that each vehicle was equipped with the right type of tire.

The software included a **distance covered by the tire as per the brand chart** and a brand-wise projected mileage chart to provide a comprehensive overview of tire performance.

The software collected and analyzed vast amounts of tire-related data, allowing mining companies to **identify trends, track performance metrics**, and make data-driven decisions to optimize their operations.



RESULTS

Cost savings – Tire management software allowed mining companies to optimize tire usage and maintenance, reducing the need for premature tire replacement and lowering maintenance costs.

Data-driven decision-making - The software's analytics capabilities allowed for the identification of patterns and trends, providing insights into tire performance and maintenance needs, and enabling more proactive and informed decision-making.

Improved tire lifespan - By tracking tire performance and maintenance history, mining company extends the lifespan of their tires, ensuring they get the most out of their investment.



RELATED USE CASES



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Overcoming Tire Management Challenges in the Trucking Industry