trakzee

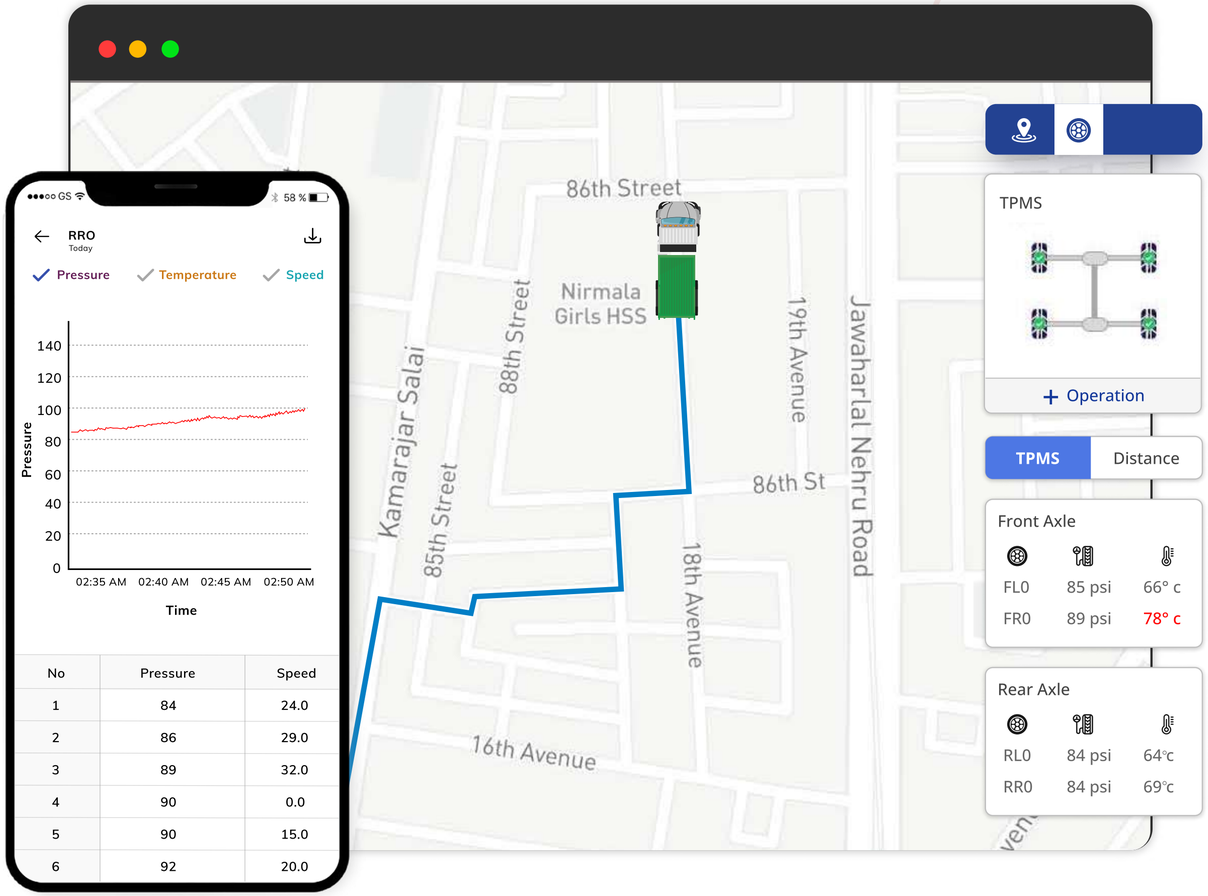
TIRE PRESSURE MONITORING SYSTEM

Know Your Tire Health and Escalate Safety

Tires are one of the most critical components of a vehicle. Properly **inflated tires** are essential for **vehicle safety**, and **fuel efficiency**. However, many fleet owners may not realize the importance of tire pressure, leading to potential safety hazards and higher operating costs.

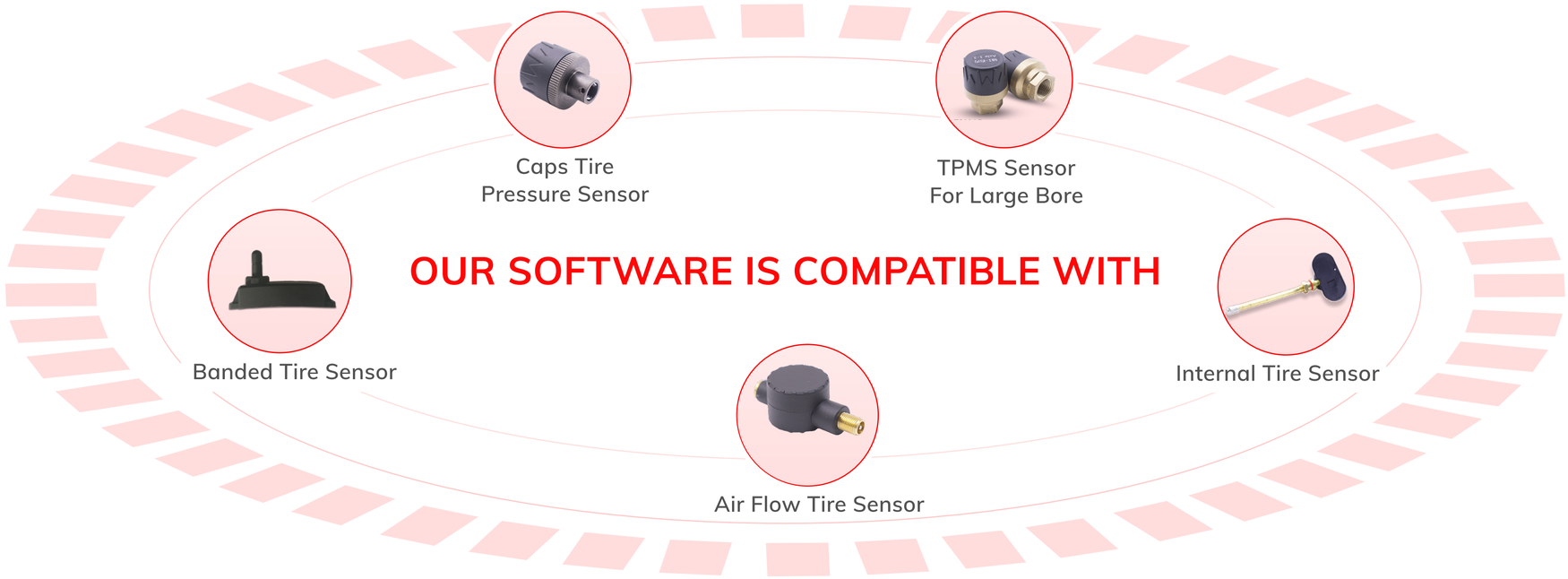
This is where tire pressure monitoring systems (TPMS) comes in. It provides with **real-time monitoring** of **tire pressure**, and **temperature**. It ensures that fleet owners always have the information they need to keep tires in top condition. In this brochure, we'll take a closer look at the features of TPMS, and how this technology can help maintain optimal tire health and safety on the road.

Let's get started and explore the world of TPMS.



Compatible with any TPMS sensor

The software is designed to work with any type of TPMS sensor, giving your clients the **flexibility** to bring in their preferred **type of sensor**. This compatibility provides **accurate** and **real-time tire pressure** and **temperature monitoring**. Additionally, this feature eliminates the need for clients to purchase new sensors, as our software can work seamlessly with their existing sensors, resulting in cost savings and increased efficiency.

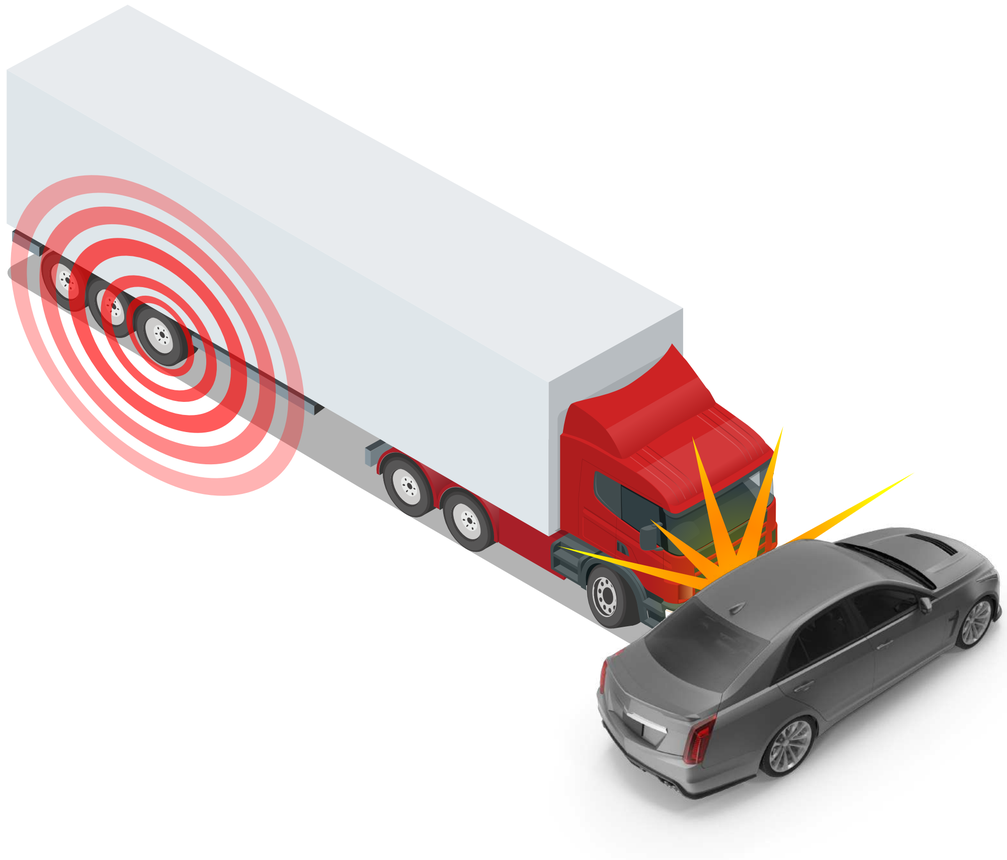


FEATURES

Tire Pressure Monitoring

Tire blowouts or sudden tire failures can cause accidents, resulting in property damage, injuries, and even fatalities. With tire pressure monitoring, fleet managers can ensure that their vehicles are always running on properly inflated tires, **reducing the risk of accidents** caused by under-inflated tires.

By monitoring tire pressure in realtime, fleet managers can **identify and address tire issues** before they become serious problems, helping to **extend the life of the tires and reduce maintenance costs**.



TPMS | Distance

Front Axle

FL0	85 psi	62°c
FR0	64 psi	67°c

Axle 1

1L1	86 psi	62°c
1L0	88 psi	66°c
1R0	87 psi	62.3°c
1R1	89 psi	70°c

Axle 2

2L1	88 psi	65.5°c
2L0	85 psi	63°c
2R0	88 psi	63°c
2R1	76 psi	63°c

Axle 3

2L1	74 psi	66°c
2L0	[illegible]	68°c
2R0	94 psi	69°c
2R1	93 psi	70°c

Axle 4

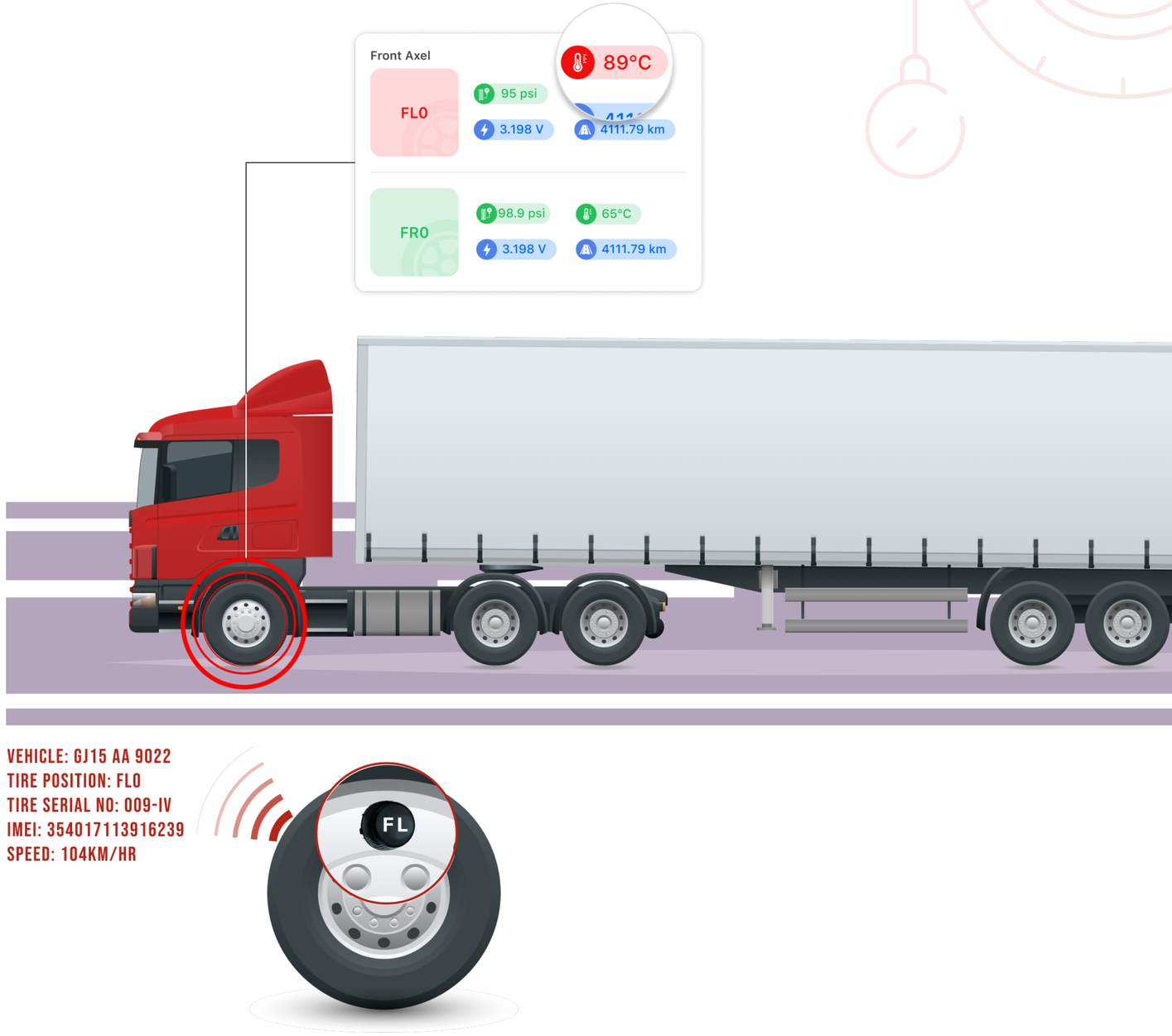
2L1	95 psi	66°c
2L0	96 psi	62°c

Tire Temperature Monitoring

The temperature of a tire can be affected by a variety of factors,

- including the type of road surface,
- the speed of the vehicle,
- and the ambient temperature.

When a tire becomes too hot, it can cause the rubber to degrade and become more prone to failure. By monitoring tire temperature in realtime, fleet managers can **identify tires** that are **operating at high temperatures** with the help of alerts and reports and **take corrective action** to reduce heat buildup, thus extending tire life and reducing costs.



Instant Alerts and Analytical Trends

Temperature Warning Alerts

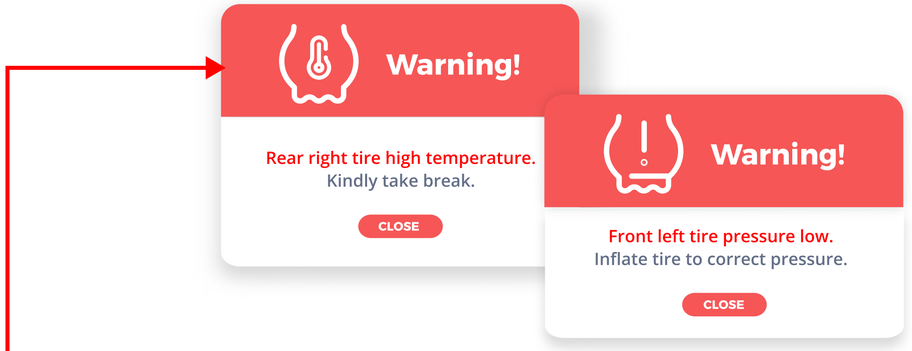
- The software also monitors tire temperature and send alerts if the temperature exceeds a certain threshold, indicating a potential problem like overheating.

Pressure Warning Alerts

- The software detects any drop or rise in tire pressure below or above a certain threshold and alerts the fleet manager in real-time.

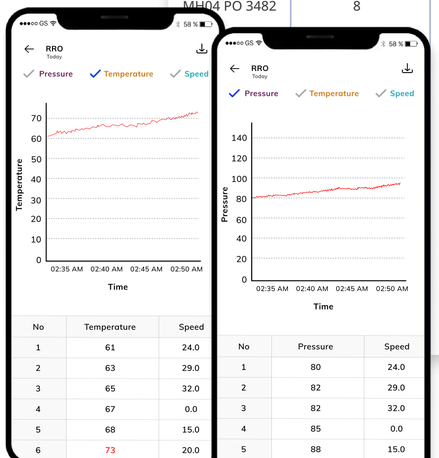
Insightful Report & Analytical Charts

- TPMS can generate historical reports that provide insights into the tire pressure and temperature trends over a specific period.



Object Tire Pressure

Object	Total Tires	TPMS sensors	Low Pressure	High Pressure	High Temperature	Low battery voltage
GJ15 AA 9022	6	6	1	0	0	0
MH02 RR 5689	4	4	0	0	0	0
KA10 PO 3482	4	4	0	1	1	0
MH04 PO 3482	8	8	1	1	0	0
		10	1	3	3	3
		4	0	0	0	0
		4	0	0	0	1
		6	1	0	1	0
		4	0	1	1	0
		6	1	0	1	0
		4	0	0	0	0
		12	3	0	0	1
		8	0	0	0	0
		4	0	0	1	0



Ensuring Safe Transportation of Hazardous Chemicals

Challenges

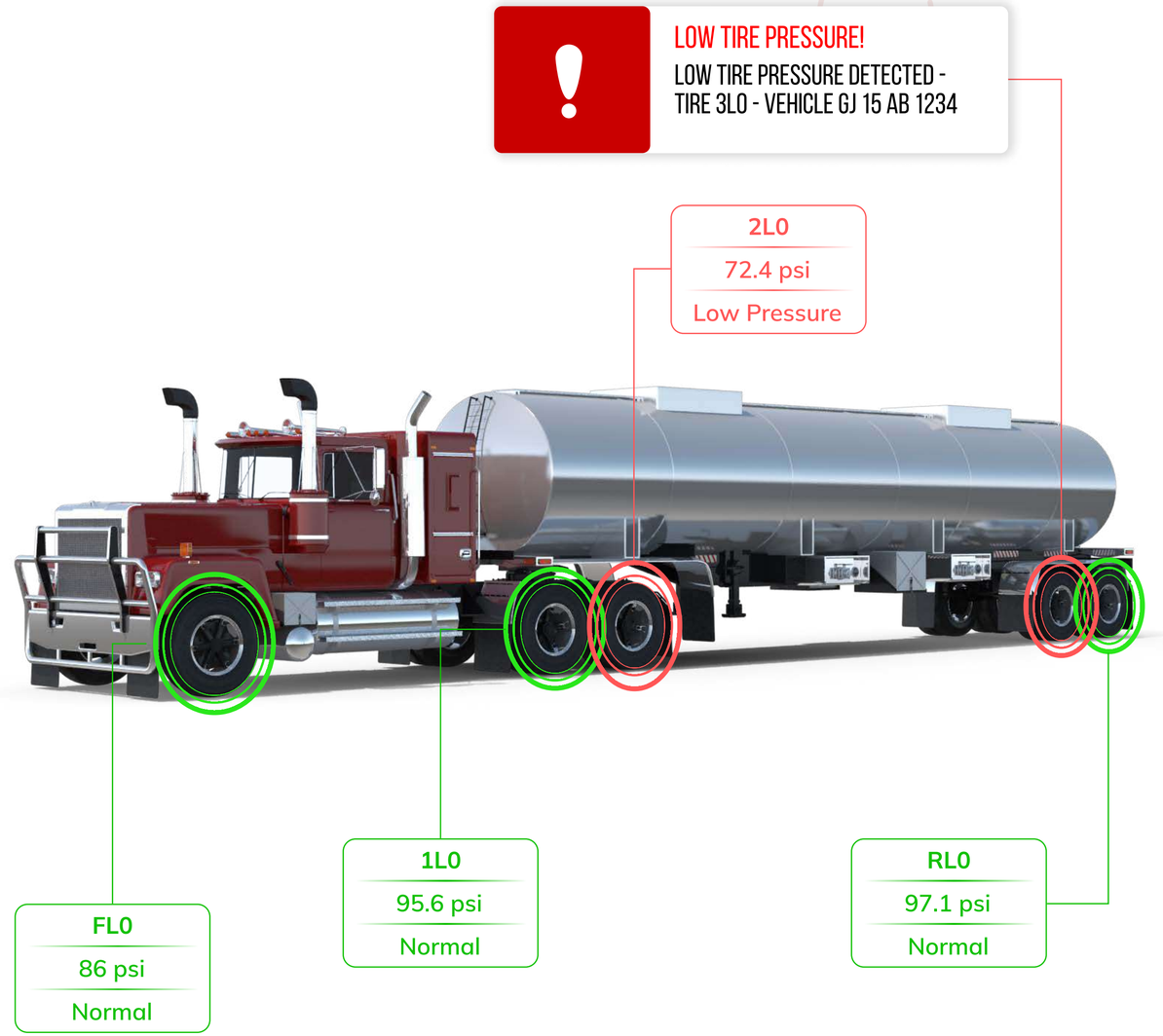
- Maintaining accurate records of tire pressure and temperature for compliance and safety regulations was difficult.
- The risk of accidents increases when the vehicle is transporting hazardous chemicals, as any sudden change in tire pressure or temperature can cause a catastrophic event.
- Monitoring tire pressure and temperature manually was time-consuming and unreliable.

Solution

- The installation of a TPMS helped to monitor tire pressure and temperature in real-time.
- The software sends alerts in case of any abnormal tire pressure or temperature.
- The software also generated reports for analyzing tire performance and taking corrective measures.

Results

- With the help of TPMS fleet managers ensured the safety of drivers and hazardous materials being transported.
- Real-time monitoring and alerts help to prevent accidents and minimize downtime.



Reducing Mining Downtime with TPMS

Challenges

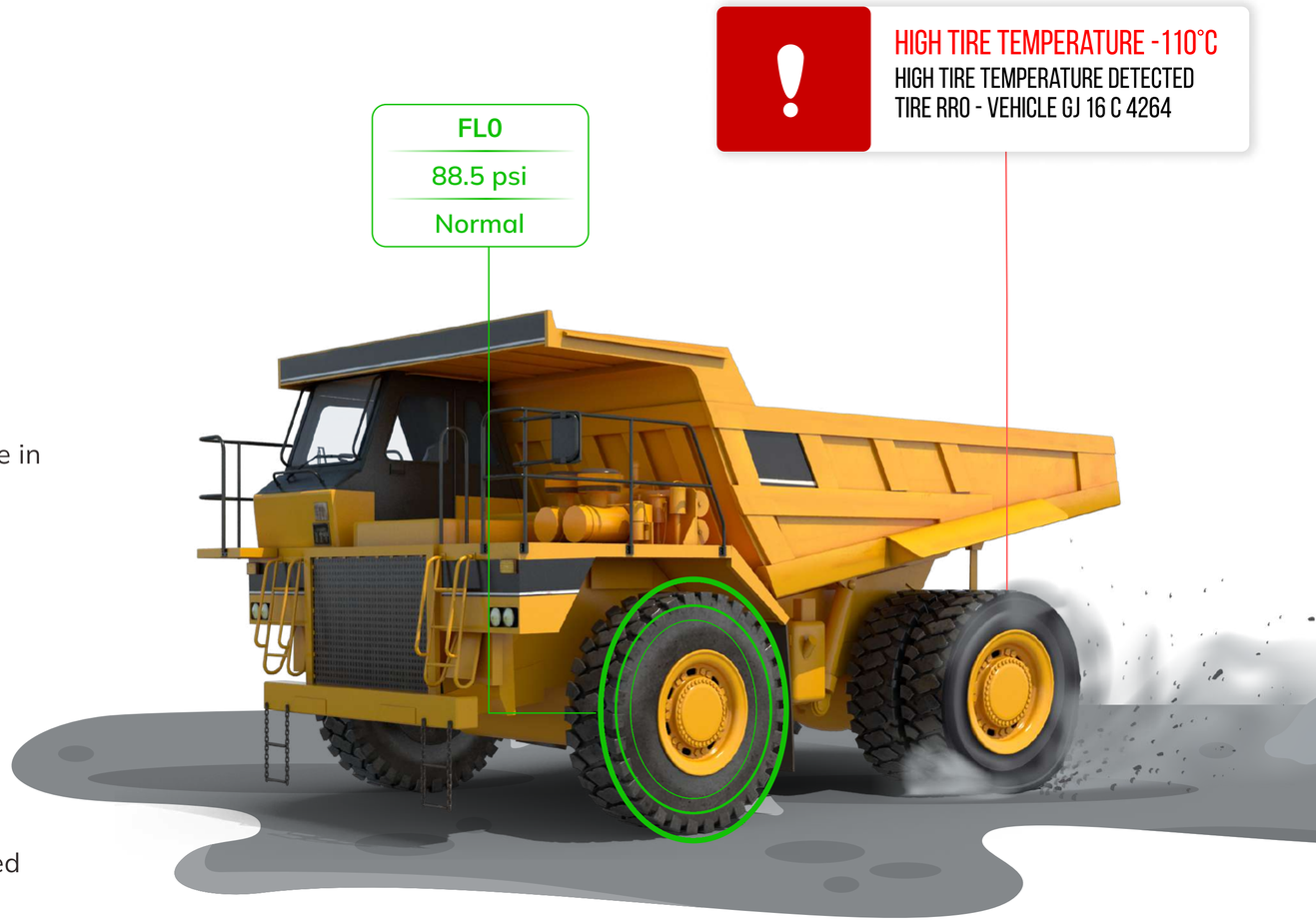
- Large size of mining vehicles makes it difficult to manually check tire pressure and temperature.
- The rough terrain can cause tire damage and punctures.
- Underinflated or damaged tires can result in decreased vehicle performance and increased fuel consumption.

Solution

- TPMS used advanced sensors and analytics to monitor tire pressure and temperature in real-time.
- Instant alerts were provided to the operators related to tire temperature or pressure.
- The system provided remote monitoring and data analytics, enabling the company to optimize tire performance and reduce maintenance costs.

Results

- Increased vehicle performance and fuel efficiency.
- Enhanced safety for personnel working around the mining vehicles.
- With the implementation of TPMS, the mining company was able to reduce tire-related downtime by 30%, resulting in significant cost savings.



Safety and Efficiency in Long-Distance Goods Transportation

Challenges

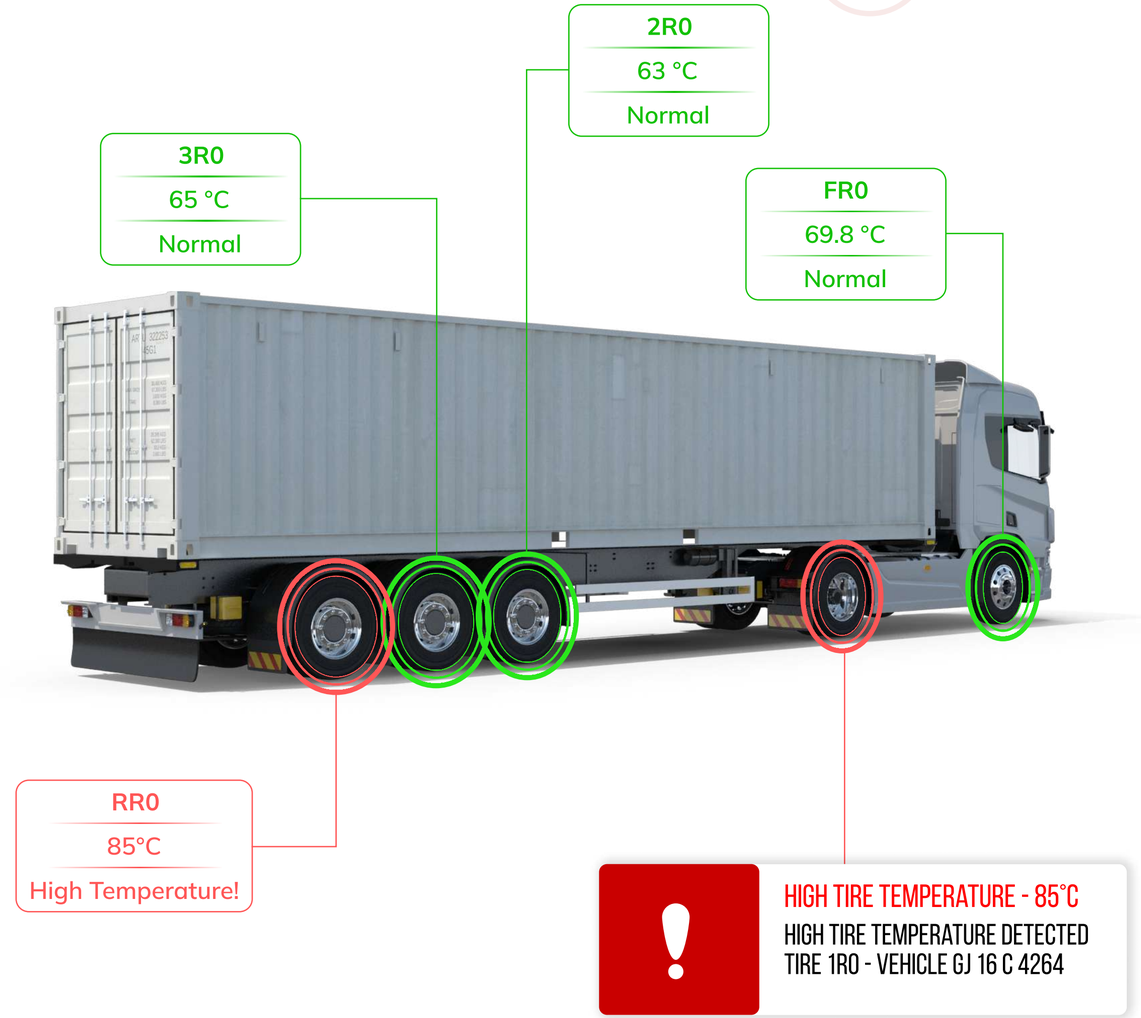
- Long-distance goods transportation involves heavy vehicles and multiple trips, which increases the risk of tire failure.
- Tire pressure and temperature fluctuations goes unnoticed, leading to reduced fuel efficiency and increased tire wear.
- Inefficient tire maintenance resulted in extended downtime and increased costs.

Solution

- TPMS solution continuously monitored tire pressure and temperature in real-time.
- Provided alerts for any irregularities, allowed for proactive maintenance and reduced the risk of tire blowouts.
- Automating the tire pressure monitoring process, eliminated the need for frequent stops and reduced fuel consumption.

Results

- Improved fuel efficiency and reduced tire wear through continuous monitoring.
- Increased safety and reduced accidents due to early identification of tire issues.
- Reduced downtime and maintenance costs through efficient tire maintenance practices.



Our software is designed to be flexible, scalable, and customizable. We understand that every business is unique, and we work closely with our customers to ensure that our solutions are tailored to meet their specific needs.

Our team of experts is always available to answer your questions and provide support whenever you need it.

Contact us today to learn more about how our software can benefit your business.

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Thank you!