

Safety and Efficiency in Long-Distance Goods Transportation with TPMS

INTRODUCTION

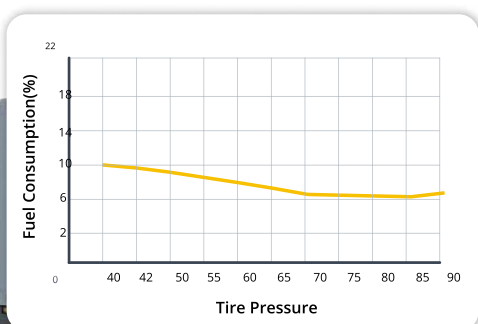
Long-distance transportation of goods involves significant risks such as tire blowouts, vehicle accidents, and cargo damage. The tire pressure monitoring system (TPMS) software can be used to enhance the safety and efficiency of long-distance transportation by monitoring tire pressure and temperature in real-time.

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 practices resulted in extended downtime and increased operating costs.

The damage caused by accidents resulted in severe financial losses and affected delivery schedules. Additionally, the manual inspection of tire pressure in large fleets of vehicles was time-consuming and costly.



SOLUTIONS

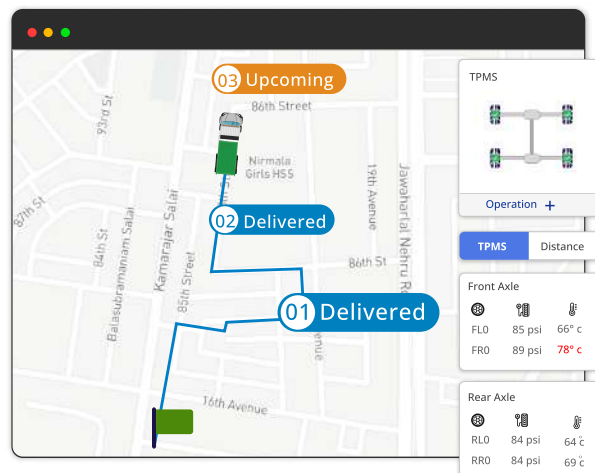
By implementing our TPMS software, fleet managers monitored tire pressure and temperature in real-time, which helps to prevent tire-related accidents and improve vehicle performance.

The real-time monitoring and alerts enabled fleet managers to take corrective action quickly, ensuring that deliveries are made on schedule.

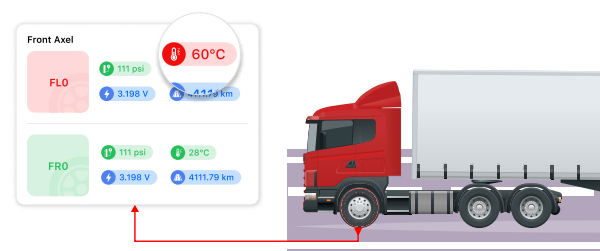
The software provided a detailed analytical report on the tire pressure and tire temperature.

The software also enabled fleet managers to track the history of tire pressure and temperature data, which was used to identify any recurring issues and plan for future maintenance or replacements.

The automatic tracking of tire pressure and temperature also reduced the need for manual inspections, saving time and money.



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
DL12 DO 5553	10	10	1	3	3	3
GA01 LL 2020	4	4	0	0	0	0
KL01 LL 2020	4	4	0	0	0	1
DL06 MN 8021	6	6	1	0	1	0



RESULTS

Enhanced Safety – The use of TPMS software in long-distance goods transportation significantly enhanced safety and efficiency while reducing the risk of tire-related accidents and cargo damage.

On-time Deliveries - The real-time monitoring and alerts enabled drivers and fleet managers to take corrective action quickly, ensuring that deliveries are made on schedule.

Identify Recurring Issues - Additionally, the historical tracking of tire pressure and temperature data helped in identifying recurring issues, reducing maintenance and repair costs.



RELATED USE CASES



Safe Transportation of Hazardous Chemicals with TPMS



Improving Mining Fleet Efficiency in Harsh Operating Conditions with TPMS