

Safe Transportation of Hazardous Chemicals with TPMS

INTRODUCTION

Transporting hazardous chemicals requires adherence to strict safety regulations to protect human health and the environment. One critical aspect of this safety protocol is ensuring that the tires on the vehicles used to transport these chemicals are maintained at the correct pressure levels. Underinflated tires can lead to tire failure, causing accidents, chemical spills, and environmental contamination.

CHALLENGES

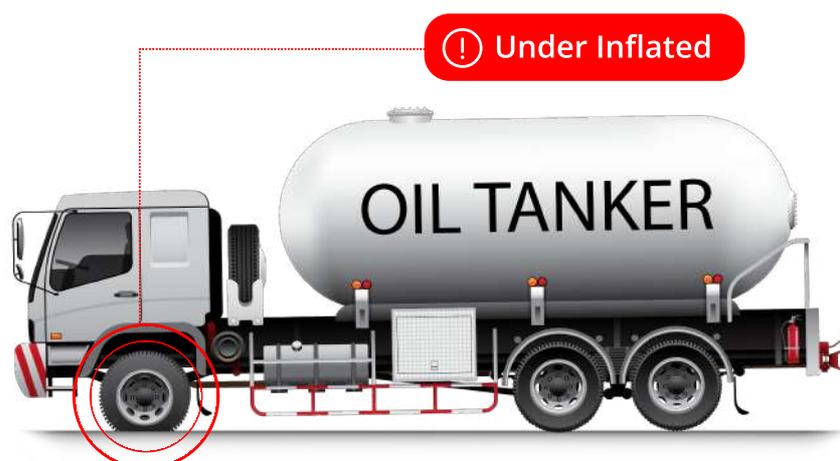
One of the most significant challenges the company faced in the transportation of hazardous chemicals was the risk of accidents caused by underinflated tires.

Transportation of hazardous chemicals requires special attention to ensure the safety of drivers and the environment.

The risk of accidents increases when the vehicle is transporting hazardous chemicals, as any sudden change in tire pressure or temperature causes a catastrophic event.

Monitoring tire pressure and temperature manually is time-consuming and unreliable.

Moreover, the transportation of hazardous chemicals often involved long distances, which was causing significant wear and tear on the tires.



SOLUTIONS

To address these challenges, the company adopted our tire pressure monitoring systems (TPMS) to automatically track tire pressure in real time.

TPMS software used data from sensors installed inside each tire to measure the pressure and temperature of the air inside the tire. The data collected by the sensors is sent wirelessly to a central monitoring system, which can be accessed remotely by maintenance staff or other relevant personnel.

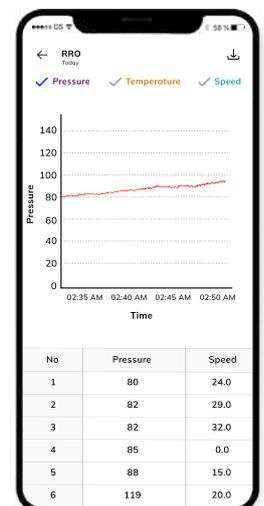
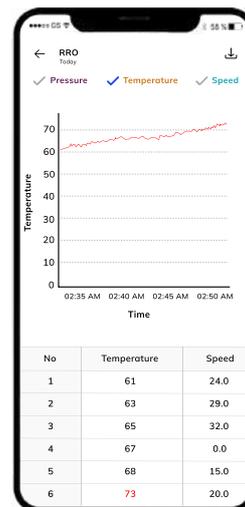
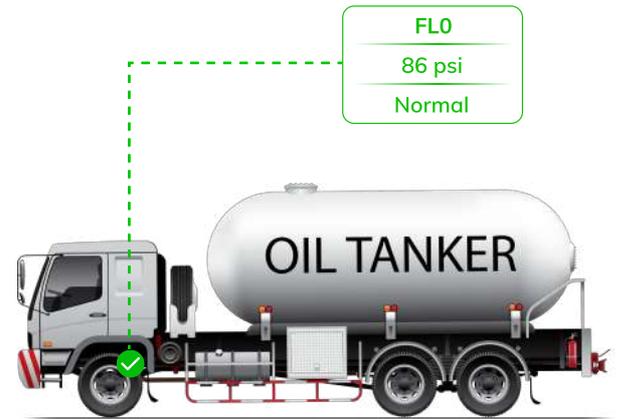
They also allocated multiple checkpoints to each waste collection job to ensure efficient tracking of the waste pickup process.

With the help of TPMS software, companies ensured that their vehicles are operating with properly inflated tires, reducing the risk of accidents and chemical spills.

The moment software detects that a tire is losing pressure or the temperature of the tire is fluctuating, it sends an alert to the fleet manager in real-time. This allows them to take corrective action before a serious problem occurs.

The software generated reports on tire pressure and performance, allowing companies to identify patterns and trends that could indicate issues with their vehicles or routes.

This data helped companies to optimize their fleet operations, reducing fuel consumption and maintenance costs.



RESULTS

Ensure Safety – By using TPMS software, companies ensured safe transportation of hazardous chemicals by monitoring tire pressure in real-time.

Optimized Operations - The valuable data generated by the software helped companies optimize their fleet operations, improving safety and reducing costs.



RELATED USE CASES



Safety and Efficiency in Long-Distance Goods Transportation with TPMS



Improving Mining Fleet Efficiency in Harsh Operating Conditions with TPMS