



Blow-out prevention and wear reduction

STVA explain how Tructyre's automatic Tyre Pressure Monitoring System has benefited their operation



Company: STVA

Sector: Vehicle logistics

Solution: Automatic Tyre Pressure Monitoring System (TPMS)

Key benefits: Minimised roadside incidents
Reduced fuel costs
Maximised tyre life



We recognise that monitoring and reacting to tyre pressure variations is a key challenge fleet managers and engineers face continually. Not only to give early warning of deflation and potential blow-outs, but also, by analysing the data, tyre pressures can be specified more accurately for a vehicle's particular operation and workload – consequently reducing fuel costs and maximising tyre life.

Tructyre and RL Automotive have worked together to deliver a Tyre Pressure Monitoring System (TPMS) for commercial vehicles. The outcome of this collaboration is a package that has its sensors inserted inside each wheel rim, sending a continuous data stream to the in-cab display screen.

There are a number of advantages to this new system:

- Sensors stay in place even if the tyre is changed
- Sensors are only replaced every five years
- As the sensors are inside the tyre there is no possibility of theft
- Data from each tyre is shown to the driver in real time
- Uniquely, data is stored for later analysis

Birmingham-based STVA offer a range of automotive logistics services. Their group of companies operates a fleet of over 50 car transporters. In a bid to prevent blow-outs and reduction on wear they opted to introduce the Tructyre TPMS package to their vehicles.

“ The Tructyre TPMS package has been installed for some time and showed an immediate return with four potential blow-outs prevented in the first three months. ”

Two of these were slow punctures to which the system alerted the driver at the start of the day. One was a nail picked up at Southampton docks. The other was a bolt picked up by the steer tyre and then 'shot' into the lift axle tyre. As a result of these alerts the punctures were repaired efficiently and economically on site, rather than at the roadside.

The third was a system alert for a rapid deflation whilst on the motorway following a curb being clipped earlier in the day. Thanks to the alert the driver was able to pull into a service station and call Tructyre for assistance.

Our thanks to STVA for their hospitality and for sparing the time to put this case study together



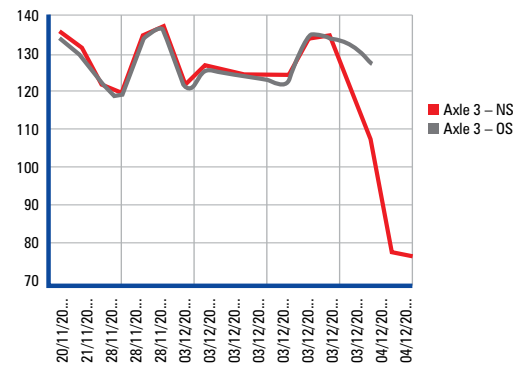
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The fourth warning was a high temperature alert on the inner of a twin on the drive axle. This enabled the driver to inform his operations department. The tyre was subsequently checked during inspection and found to have multiple blisters.

Data analysis from one vehicle has shown that tyre pressures rise from 120psi to as high as 150psi. Further investigation across the fleet revealed similar pressure and temperature differences on tyres across the same axle. This has highlighted structural issues from the tyres, wheels or even the vehicle itself. Highlighting these issues early on will no doubt extend tyre life across the STVA fleet.

For customers seeking to minimise roadside incidents, reduce fuel costs and maximise tyre life, this system is definitely worth their attention. It offers a modern, proven solution that combines precision technology with user-friendly practicality.



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