BEST PRACTICE

LOCATION:	**Transport**	**ARTICLE YEAR**	**2018**
ACTIVITY:	**Transport & Logistics / Delivery**	**COMPANY:**	**Day Aggregates**
SUB ACTIVITY:	**Loading**	**COMPANY LOCATION:**	**Transport Fleet**
BEST PRACTICE No:	**BP2030**	**COMPANY TEL:**	**0000**
COUNTRY OF ORIGIN:			

TITLE

Tyre telematics

ARTICLE

DESCRIPTION

It is estimated that there are between 150 to 400 wheel detachments each year, they are responsible for three to seven deaths annually. They also result in serious traffic incidents involving damage to other vehicles and injuries to other road users.

Day Aggregates wanted to reduce its exposure to these risks and improve tyre management across its fleet of over 150 vehicles. TrucTyre and Day Aggregates agreed to partner in a trial of a tyre monitoring system. In 2016, they were awarded a two year Innovate UK government grant to assist in the development of this system.

The system consists of a sensor which straddles two-wheel nuts and is held in place with a bracket, the sensor is activated by a 1mm movement. When the wheel nuts start to work loose, the switch opens, and an RF warning is sent to the driver via a receiver to the cab. In addition, via the TyreWatch telematics platform, a warning is sent to the traffic office of the imminent danger of a loose wheel.

The system also monitors tyre pressure and temperature. By monitoring these elements and taking appropriate corrective action, the operator is able to improve tyre life, enhance the durability and safety of the tyre casing.

The system reduces the reliance on the driver to check and monitor the vehicle tyre. The processing of data and reporting directly to the transport department is automated and continuous. The driver is warned and able to stop their vehicle before a wheel becomes detached or a tyre blows out or runs incorrectly inflated, avoiding an incident that could have potentially catastrophic consequences.

BENEFITS

- Reduces risk of tyre failure leading to accident
- Safer Transport – drivers, tyre fitters and third parties
- Increased vehicle uptime, less traffic congestion
- Lower environmental footprint
    - CO2 emissions
    - Lower fuel consumption
    - Less tyre disposal
- Reduction in workshop maintenance time

ARTICLE IMAGES

Click image to enlarge

Click image to enlarge