



## ZF Health Check by ZF Aftermarket increases the uptime of buses on the road

- Thanks to digital connectivity via the intelligent fleet management system ZF Bus Connect, remote vehicle data access can be turned into actionable service-related insights
- In the future, maintenance schedules can be based on the actual condition of the vehicle
- Breakdowns are avoided and service appointments are prepared to suit operator's schedules

**With its ZF Health Check, ZF makes the "Next Generation Aftermarket" accessible to users of its automatic transmission for buses. Based on live read data from the driving operations, an individualized maintenance plan can be created that is tailored to the actual condition of the transmission. Fault diagnostics are possible via digital remote access, so that unnecessary workshop visits can be avoided and operating times increased.**

Public transport plays a key part in the sustainable transformation of the transport sector. To maximize their positive impact as well as to ensure the best service quality for passengers, buses must spend as much time as possible on the road and as little as necessary in the workshop.

A new digital service concept from ZF Aftermarket helps with these challenges: the ZF Health Check is specially adapted to the ZF EcoLife automatic transmission, which is used by transport operators worldwide in city buses and regular-service buses. The solution uses numerous types of sensor data registered in the transmission system during vehicle operations - for example, engine speed, gear step, oil temperature, oil pressure, etc. These data are frequently transferred over-the-air to a dedicated advanced analytics service operating in the ZF Cloud, where individualized service-relevant insights are determined. In turn, those insights result in meaningful recommendations for action for the bus operator, or for his service company.



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For example, the operator can make the best possible use of the service life of transmission oil, because the oil is not changed at a predefined mileage which could be too early. The bus thus stays on the road longer, and availability (uptime) increases. Even if the bus has to go to the workshop, downtime is minimized because spare parts or materials can be provided in advance thanks to the available vehicle data. The necessary working time can also be better planned. And if the company's own workshop cannot find the fault, the fleet operator can call in external service experts and give them access to the Health Check portal.

Another advantage is that bus fleet operators receive early warnings of impending breakdowns. This is because damage does not usually occur suddenly, but rather can be anticipated - for example, by deviations in oil pressure or temperature. If the operator then takes the vehicle in question to the workshop, not only is the repair often less expensive because no consequential damage has yet occurred, but the problems associated with a breakdown are also eliminated - such as further transport of the passengers, use of a replacement bus, or taking the broken-down vehicle to the workshop. No less important than the concrete technical advantages is the confidence and security that the ZF Health Check gives operators.

Philippe Colpron, Head of ZF Aftermarket comments: "With ZF EcoLife we already enable hundreds of bus operators around the globe to perform more efficiently. With our ZF Health Check offering, leveraging remote vehicle data access and predictive analytics, we can now accompany our fleet customers even one step further towards zero downtime and paving the way for a sustainable aftermarket."

ZF Health Check is available immediately to users of the ZF Bus Connect Premium fleet telematics solution. ZF is currently planning the integration of additional components into Health Check. In addition to Health Check, ZF Bus Connect offers numerous functions for operational optimization of bus fleets, such as a live view of the entire vehicle fleet, insight into optimization potential with regard to fuel/energy consumption, driver behavior, or wear and tear of technical components (e.g. brakes). It



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generates reports on compliance or as a basis for tax-related proofs in public transport.

Caption:

ZF Health Check enables fleet managers to create a maintenance plan based on live bus operation data.

Photos: ZF

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**About ZF**

ZF is a global technology company supplying systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains of Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive product and software solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

With some 165,000 employees worldwide, ZF reported sales of €43.8 billion in fiscal 2022. The company operates 168 production locations in 32 countries.



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ZF's leading aftermarket and fleet solutions portfolio is built on its strong brands LEMFÖRDER, SACHS, TRW and WABCO. A broad product and service offering, advanced connectivity solutions for digital mobility management and a global service network, support and enhance the performance and efficiency of all vehicle types throughout their life cycle. The company's aftermarket organization is both an architect and pacesetter for the Next Generation Aftermarket and the preferred partner for fleet and aftermarket customers worldwide.

Further press information and images can be found at: [www.zf.com](http://www.zf.com)