

## Real-Time Mechanical Diagnostics

Traffilog's Real-Time Mechanical Diagnostics solution connects to a vehicle's computer system, and enables the receipt of mechanical and technical data from the vehicle, for either real-time or periodic reports. This vital knowledge has a direct impact on vehicle running costs, forecasting valuable information, and enabling preventative maintenance. Real-Time Diagnostics directly interfaces with the vehicles' CANBUS/OBD (Controller-Area Network BUS/On-Board Diagnostics), defining warning profiles at any time. This cost-saving feature improves overall vehicle efficiency and safety, and dramatically reduces downtime. Customers benefit from significant fuel savings of up to 16%, Mean Time Between Failure (MTBF) improvement up to 70%, and up to a 75% decrease in aggressive driver behavior and safety events.

Traffilog's solution provides real-time 'remote' diagnostics that analyzes RPM, temperature, oil levels, air pressure, load weight, brakes, clutch, gears, and engine status. The unique remote feature helps prevent severe mechanical breakdowns, while the system's pre-defined warning profiles enhance anti-theft fuel control. Real-Time Diagnostics significantly improve driving skills and encourage best practices, allowing for immediate management and control of irregular operating costs.

By driving at optimal RPM and monitoring idle time, the system's tools and data drive the vehicle at its optimum level, dramatically reducing fuel consumption. Real-Time Remote Diagnostics also SAVES up to 30% in spare parts through preventative maintenance, including engine, gears, clutch, and brakes. Further cost-savings include reduction in roadside and towing services, wear and tear, and decreased fleet administration costs.

## Fuel Consumption Management

The Traffilog system analyzes actual vehicle fuel consumption at any given time by consistently reading the vehicle's engine consumption and fuel tank levels. Analysis is performed without connecting additional sensors to the vehicle, providing comprehensive reports and graphs. Fleet managers can easily keep track of the exact fuel consumption of any vehicle and receive real-time information on related events, such as refueling and fuel theft, in addition to efficiency analysis and comparison between different vehicles, models and manufacturers. The system also generates timely reports on fuel consumption per trip, driver, or time period, according to pre-defined customer requirements.

## Load Temperature Monitoring

Traffilog's system provides an advanced temperature sensor to measure load temperature on trucks distributing perishable foods and medicines that require set temperatures. The Load Temperature Monitoring system enables real-time monitoring and alerts on deviant temperature changes in the vehicle load, preventing costly damage and spoiling during transport. Multiple temperature sensors are installed in the vehicle based on customers' configuration of multiple events and various parameters, such as time and distance, load door opening/closing, and compressors on/off. The system can also be installed on trailers without requiring additional Traffilog units, and easily integrates with data from existing load temperature monitoring.

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