

Remotely Diagnose Vehicle Problems and Avoid Downtime

For companies with mobile workers, the success of their business depends on keeping their vehicles running and their maintenance and fuel costs low. Trimble Advanced Engine Diagnostics, a service package for the Trimble GeoManager_{SM} Fleet Productivity & Management solution, enables managers to remotely monitor engine and driver performance. Whether a vehicle's engine oil pressure is too low, coolant temperature is too high or the brake system experienced an abnormal rate of change, GeoManager Advanced Engine Diagnostics reports and alerts warn managers of problem conditions as soon as they occur. This insight allows managers to intervene with proactive maintenance attention to help avoid more costly breakdowns and repairs.



Key Benefits

- Remotely view engine diagnostics to know the health of your vehicles without having to interrupt their service in the field
- Receive engine fault descriptions – not just code numbers – for an instant view of the problem
- Gain additional insight into the problem with reports of vehicle data from before and after the fault code was triggered
- Increase productivity by decreasing vehicle downtime
- Improve fuel economy and reduce repair costs through proactive engine monitoring and maintenance

Monitor Vehicles Remotely in Real Time

Trimble Advanced Engine Diagnostics uses in-vehicle engine monitoring hardware to continually collect and wirelessly transmit information from vehicles in the field to the Trimble data center and the GeoManager system. Since GeoManager is Internet-based, you can access real-time or historical vehicle diagnostic information at any time, from any location where you have online access. You can also arrange to have notifications sent to your mobile device or email account when a vehicle's fault code is triggered.

On receiving notice of a fault code from a vehicle's engine bus, you can take immediate action to ensure the safety of the driver and vehicle and to avoid more serious problems like breakdowns, extensive repairs or missed customer appointments. You can also use the engine data to identify and correct vehicle fuel economy problems to save on fuel costs.

Make Informed and Timely Decisions with Remote Engine Data On Demand

The Live Diagnostics and Rolling Freeze Frame features of the Advanced Engine Diagnostics package give you even greater remote insight into the performance of your vehicles. When you need to track the health of a specific vehicle, the Live Diagnostics feature allows you to "ping" that vehicle for an instant update.

When a vehicle problem occurs, your maintenance technicians can use the Rolling Freeze Frame feature to review engine data from immediately prior to and after the fault code was triggered. With such knowledge, they may be able to diagnose and correct the problem remotely. If a vehicle breaks down, you can use your understanding of the problem to decide whether to send a tow truck or service technician. This can help get the vehicle back in operation more quickly and with less expense.

Reports, Exceptions and Alerts

- Diagnostic Fault Exception Report and Alerts** – Provides real-time alerts when a vehicle's fault code is present. Lists vehicle, driver, location, time, fault code source, ID/FMI codes, a description of what the fault code means, and the number of times this fault code has occurred during the specified report period. This information can be viewed via GeoManager reports or delivered to an email account or mobile device.
- Trip Report*** – Allows you to evaluate driver and vehicle performance from one trip to another by listing and comparing engine faults triggered, road speed, engine speed (RPM), distance, PTO (rapid acceleration), miles traveled, number of stops, fuel efficiency and idle time. Also allows you to view a trail of where the vehicle traveled during the specified trip.

- Diagnostic Fault Exception Report and Alerts with Rolling Freeze Frame*** – Provides a detailed account of vehicle conditions such as speed, temperature and accelerator pedal position from 30 seconds before the engine fault code was triggered to 10 seconds after.
- Live Diagnostics*** – Allows you to request an instant report on the engine health of a specific vehicle. This report includes the driver, location, time, odometer reading, status and fault history for the specified vehicle.

* Requires Trimble iLM® 4500 onboard computer system



Live Diagnostics Report



Diagnostic Fault Exception Report with Rolling Freeze Frame

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