



ALWAYS ON

PrevenTech™ for Mining

Cummins PrevenTech is Cummins latest innovation in helping miners lower their cost of production. By combining engine hardware and expert analysis to remotely monitor, analyze and enhance engine health, Cummins delivers proactive recommendations that enhance equipment productivity while reducing downtime and maintenance costs.

Customers using PrevenTech can expect increased uptime and profitability in three ways:

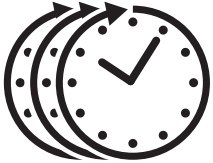
- 1.** Maintenance-related costs are optimized through smarter intervals that are customized based on the actual conditions of your mine site.
- 2.** Advanced detection of critical engine situations improves equipment uptime by reducing the likelihood of engine-related failures.
- 3.** Driver efficiency and equipment utilization can be tracked and analyzed, helping your operations team identify improvement opportunities.

A WORLD OF INFORMATION.



Your mine is Always On, and so is Cummins. Cummins experts constantly monitor mining engines around the clock and around the globe. Our fault analysis process takes every factor into account by leveraging a global database that includes information from thousands of connected engines at hundreds of mine sites worldwide. This database ensures that we can develop customized alerts and reports that are specific to your operations and are built off global best practices.

LOWERING COSTS BY EXTENDING MAINTENANCE INTERVALS.



Cummins PrevenTech includes our latest innovation in filter and fluid monitoring, FleetguardFIT™. This monitoring system checks filter sensors and maps fluid flow, temperatures and pressure – visualizing the efficiency and effectiveness of the air, oil and fuel filters. By capturing and projecting this data in PrevenTech, Cummins experts can recommend extended change intervals up to three times longer while ensuring the safe operation of your engine. This significantly decreases downtime related to important maintenance practices and gets your equipment back into production.

TRACKING PERFORMANCE TO IMPROVE PRODUCTIVITY.



PrevenTech has the availability to report potentiality damaging operator issues, such as running the engine at rated speed before fully warmed up, extended idle time, excessive cranking and not allowing the engine enough cooldown time when shutting equipment off. PrevenTech for mining also offers customers the options to monitor their own equipment using a new online dashboard or have Cummins CARE experts watch over their equipment for an additional fee. The Cummins CARE experts can monitor equipment 24/7, from anywhere in the world and provide personalized service recommendations along with advanced analytics.

STOPPING PROGRESSIVE DAMAGE BEFORE IT STARTS.



The last thing you want to see with an engine issue is the domino effect, where the failure of a single component creates greater damage downstream. PrevenTech provides insights that allow you to address a problem early. For example: a loose exhaust rocker (gear) arm can be identified before progressive damage occurs. Operating your engine with a faulty temperature sensor can result in damage to multiple power cylinders. But with PrevenTech actively monitoring engine parameters, you will be able to see deviations and intervene to prevent a potentially catastrophic failure. PrevenTech even tracks the intake manifold temperature, so you'll know right away when there is an issue with your LTA thermostat. Best of all, your repair tech can use PrevenTech to verify that the issue has been corrected.

GET CONNECTED.

Contact your local Cummins distributor and see how Cummins PrevenTech can amplify the performance of your Cummins-powered mining equipment today — because big data makes a big difference in a world that's Always On.



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