



EQUIPMENT TRACKING — INSIGHTS TO HELP YOU BETTER MANAGE ASSETS



Traditionally, sites have used pencil and paper to keep track of information on the majority of their equipment assets. Even if they leverage Production Recording technology to get data on the load / haul cycle, they have lacked access to the same information for non-production machines like water trucks, dozers, graders, drills, light vehicles, etc.

Cat® MineStar Edge™ Equipment Tracking provides information on these mobile assets, no matter the manufacturer. It tells supervisors what the fleet is doing, who is operating which machine, and how they are spending their time.

By replacing paper with accurate recording, supervisors can better understand utilization and make decisions about equipment investments and effectivity. Equipment Tracking provides insights that help mines better manage their assets, and as a result they deliver more value and mines enjoy a lower overall cost of ownership.

Get detailed data on every machine

Equipment Tracking consistently provides a basic level of information on all assets, including data on locations and movements, velocity, payload, cycle times and fuel level, as well as Service Meter Readings and time utilization. Supervisors can view scheduled and unscheduled downtime along with scheduled and unscheduled operational stoppages.

With fuel being one of a site's largest expenses, the ability to visualize and export fueling records is a key benefit of Equipment Tracking. This feature automatically measures fuel events — from when the machine was fueled to what was put in the tank and how long fueling took — allowing operations to manage the efficiencies of their fueling processes and fuel consumptions. It reduces or eliminates errors because data is collected automatically, and also lowers the cost of fuel.

FEATURES & BENEFITS

- Gathers SMU data continuously from all assets. Data is no longer gathered manually through operators recording on paper or calling over the radio — eliminating incorrect entries.
- Delivers high-accuracy data recording, reducing downstream errors when the position is referenced for automatic collection of information.
- Provides the ability to replay shifts in great detail, helping sites answer Production Recording questions and providing information for incident investigation and material tracking investigation.
- Records the time that equipment is available, down, operating or stopped due to a non-operating activity, providing accurate KPIs for use in time utilization models and leading to increased productivity and production.
- Automatically measures time when the equipment is not being productive and will attempt to classify with a machine-learning approach, reducing or eliminating missed or incorrect time measuring and giving operations information they can use to measure and manage their processes — specifically those that have production loss impacts.
- Helps sites measure and manage equipment downtime and classify it as scheduled or unscheduled, providing a key indication of the effectiveness of the site's maintenance and reliability programs, which can reduce downtime and lead to improved productivity.
- Allows operations to better manage and measure equipment operators, including allocating them to machines and tracking performance, and provides operators with KPIs about their personal performance — helping operators improve and leading to a more consistent operation and reduced cost per ton.
- Helps operations improve equipment availability, reliability and production by measuring, managing and ultimately reducing machine health events and making data easily accessible.



MineStar Edge home screen.

Gain an edge with Cat MineStar Edge

MineStar Edge is a cloud-based technology platform that delivers more connected, integrated, scalable and intuitive products that extend further up and down the value chain. It creates an operational ecosystem that gives you visibility to every aspect of your operation, allowing you to efficiently execute your mine plan and deliver optimal quality to the plant and to the surface. MineStar Edge makes it possible to measure, manage, analyze and optimize your entire operation. And because it's delivered as a cloud-based, subscription-managed application, it lowers costs and delivers a better user experience with:

- unprecedented data accuracy
- near-real-time information
- a solution for mines of any size
- improved user experience

“What excites me about the future is MineStar Edge reduces my workload from a paperwork standpoint. This system allows us to make everything paperless and simple and automated so that we don’t have people stuck in offices looking through timecards every single day anymore.”

— Brady Baxter, Mine Engineer, Rasmussen Valley Mine

“MineStar Edge is ideal for mines that are just getting started with technology. Your initial investment is significantly less and your opportunity for ROI is much higher as well. Especially those that have been running on pen and paper for so many years.”

— Tyler Simmons, Industry Solutions Manager, Western States Cat

For more information, go to cat.com/minestaredge or contact your local dealer.