

Cat[®] MineStar[™] Health Equipment Insights





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Machine health data is critical to helping you make the right maintenance decisions—decisions that allow you to improve the reliability of your mining equipment, reduce unplanned downtime and prevent failures that can lead to lost productivity and costly machine repairs.

But how useful is that data if you can't easily access it, view it, analyze it and obtain the insights you need to develop an appropriate maintenance strategy? Cat® MineStar™ Health Equipment Insights helps you gain that insight.

Health Equipment Insights is a cost-effective and user-friendly data visualization and reporting tool. It empowers you to efficiently view, manage and use machine data—so you can make informed maintenance decisions that will help maximize the availability of your equipment.



Benefits

Insights to help boost equipment availability

Go Beyond Data.

Turn Insights into Action.

Health Equipment Insights provides quick and easy visualization and reporting of machine data in a structured yet interactive format, helping you turn insights into action. It is:

- **Interactive**, allowing you to create custom data dashboards and reports to meet the needs of your mine site.
- **Intuitive and user-friendly**, with easy-to-use data drill-down functions.
- **Interoperable**, allowing you to view and analyze data from machines manufactured by Caterpillar and other Original Equipment Manufacturers (OEMs).
- **Web-accessible**, so you can use the application from any web-enabled device.
- **Cloud-based**, which allows regular application updates and seamless introduction of new features.
- **Accessible by multiple users**, so data can be viewed by different users in different locations at the same time.
- **Efficient**, providing the ability to view multiple dashboards simultaneously.
- **Automated**, so reports can be scheduled and distributed within the system.

By combining VIMS and Product Link data with inspection and fluids data, Health Equipment Insights not only provides equipment health data but also gives you access to a variety of data sets that help you track production, fuel burn or overall machine performance.

Features

Enabling dynamic data management

Customizable, interactive data dashboards and intuitive drill-down functions allow you to efficiently navigate large volumes of machine data and help foster data analytics and data-driven decision-making.

Data dashboards are powered by widgets, which are uniquely designed elements of a graphic user interface displaying information.

You'll have access to more than 30 widgets—based on data received—to help you create your custom dashboards:

- **Events** — Displays both system events and operator-induced events that are used to identify root causes of poor machine health.
 - Total Event Count
 - Event Count for Selected Days
 - Top 10 Equipment
 - Top 10 Events
- **Time Series** — Displays recorded samples of a parameter over time to help study root cause and/or decide what maintenance activities are needed.
 - Value Point Indicator
 - Trend
 - Snapshot
 - Standard DataLogger
 - Continuous Data Logger
- **Cumulative** — Displays both the number of times something occurred as well as the accumulated totals to decide what maintenance activities are needed.
 - Cumulative Data
- **Histogram** — Displays the number of times a parameter was measured within defined limits and is used to decide what maintenance activities are needed.
 - 2D-Histogram
 - 3D-Histogram
- **Productivity** — Displays application and production-related data to help track Key Performance Indicators (KPIs).
 - Application Time
 - Application Fuel
 - Application Payload
 - Application Cycle
 - Application Totals
 - Application Averages
 - Day Tracker
 - Daily Run
 - Truck Payload Summary
 - Material Summary
 - Segment Analysis
 - Productivity KPI
 - Productivity Time Series
 - Productivity Histogram
 - Payload Bell Curve
 - Load Count
 - Dump Load Tally
 - Cycle Time Comparison
- **Utilization** — Displays fuel burn and service meter hours to help manage fuel consumption.
 - Total Fuel
 - Total Hours
 - Total Fuel/Hour
- **Inspections** — Displays Cat Inspect results.
- **Fluids** — Displays Cat SOS results.
- **Map** — Displays asset as well as event location.

Users are also able to customize:

- Upper and lower thresholds for quick identification of anomalies.
- Productivity KPI targets for easy comparison to actuals.

Features

Intuitive and user-friendly functionality

Health Equipment Insights provides:

- Data visualization and reporting by asset group or individual machine.
- Intuitive single-click data drill-down and instant data viewing by hovering over charts and graphs.
- Direct download of data into PDF or Excel.
- Report scheduling for automated email distribution on a daily, weekly or monthly basis.
- Metric and U.S. Standard units of measurement.
- Embedded user manual.
- Caterpillar technical support.

Examples of functionality

Channel Name	Unit	Channel Group	Min	Max	Avg
17000P 2 Hook Temperature-max-Hook on 3800A	Deg C	S1004-ENS.PLC	-32748	85	-433.28
ClowdIn Shaft Oil Bearing Temperature-max-ClowdBra...	Deg C	S1004-ENS.PLC	-32748	71	-307.43
Clowd Motor Left Bearing Temperature-max-Clowd Brake...	Deg C	S1004-ENS.PLC	-32748	39	-388.54
Hoist Motor Right Bearing Temperature-max-Hoist Brake...	Deg C	S1004-ENS.PLC	-32748	47	-387.23
Hoist Motor Temperature-max-Hoist Brake Released	Deg C	S1004-ENS.PLC	-32748	86	-385.04

Event Description	Snapshot Count
Operator Cab Control System Control (PLU00000)	1
Profil 2 Fault (See Maintenance Status)	1
Drive System Fault (See Maintenance Status)	1

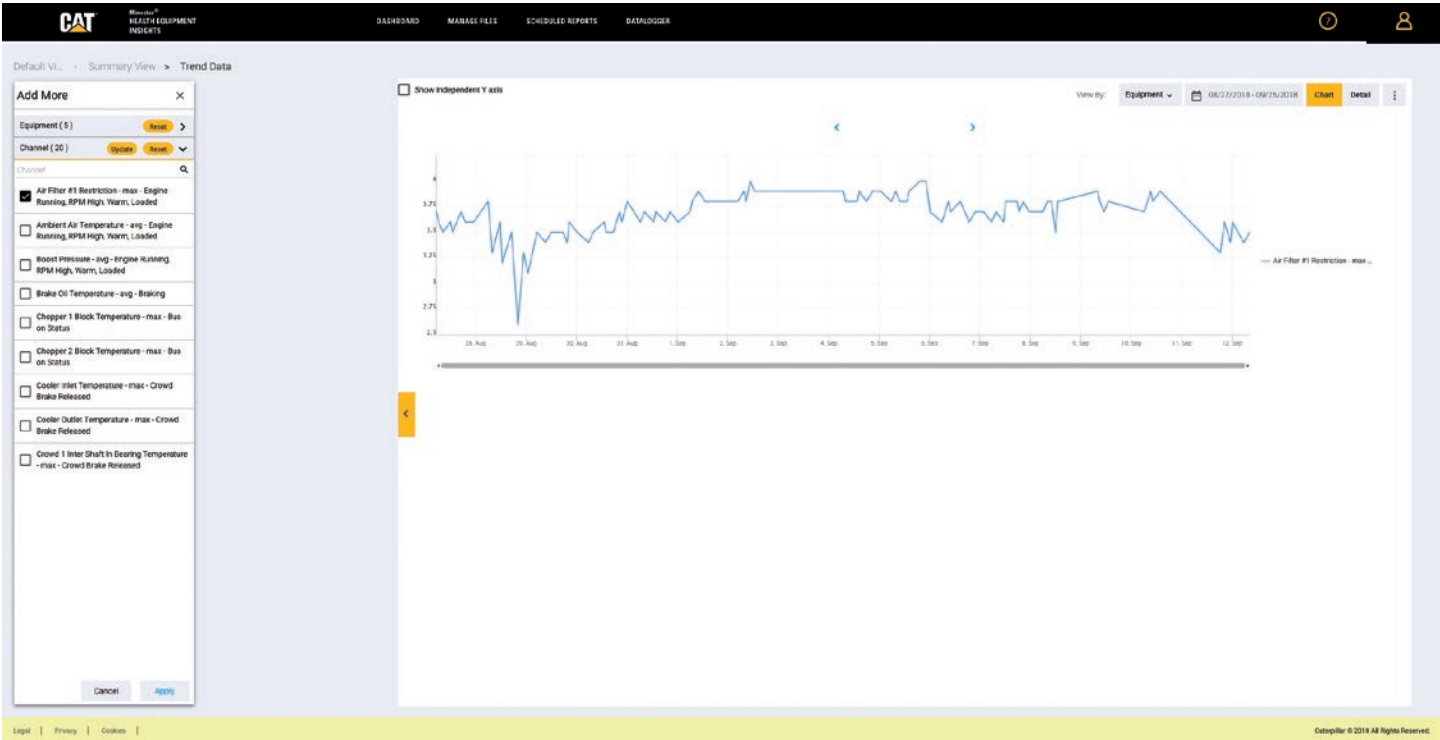
ANALYZE - > Percentage Hours Utilization per Equipment

09/19/2018 - 09/25/2018 | CHART | Detail

Percentage Hours Utilization per Equipment

Equipment	Working Fuel(L)	Idle Fuel(L)	Total Fuel(L)	Working Hours	Idle Hours	Total Hours	Fuel Burned Rate
1917.78	290.25	2178.03	40.5	44.5	85.0	23.62	
7.57	8.99	16.56	0.1	0.9	1.0	19.56	
356.3	79.62	435.92	8.35	9.65	18.0	24.18	
-	-	-	-	-	-	-	-
-	-	-	-	-	137.0	-	-

1 - 5 of 5 records



Download

File Name: Events_TotalEventCount_Tue 25 Sep 2018 10-47-08

From: 09/19/2018

To: 09/25/2018

Format: PDF

*Note : File download may take up to 2 minutes to download.

Cancel Generate

Select Date Range

Selected Dates: 09/19/2018 00:00:00 - 09/25/2018 23:59:59

Last 12 Hours
 Custom Date Range

Today
 From: 9/19/2018 00:00

Yesterday
 To: 9/25/2018 23:59

Last 7 Days

Last 15 Days

Last 30 Days

Cancel Apply

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