Cat® Advanced Productivity App

for Cat Production Measurement 2.0





With detailed production history, productivity, and efficiency metrics at your fingertips, you can better develop future project cost and profitability estimates to help improve the bottom line. The Cat® Advanced Productivity application is a web-based tool used to visualize Cat machine production-related data and complements Cat Production Measurement 2.0, a Cat PAYLOAD technology. The tool is accessed from VisionLink® and includes a user customizable report dashboard, cycle by cycle downloadable data, and a list maintenance feature for truck and material ID lists.

Go beyond basic operational status and production with actionable information answering specific questions essential to improving your bottom line.

		VisionLink Subscription + Cat Connect Technology		Advanced Productivity
				+
			¹ Payload	² Payload
KEY PRODUCTION METRICS	QUESTIONS ANSWERED	Essentials	Essentials	Essentials
Utilization & Fuel Use		✓	V	·
•Run time (daily)	Is my machine being utilized?	✓	✓	/
•Fuel Consumed (daily)		✓	✓	✓
♦Working		✓	✓	· ·
♦Idling		✓	✓	✓
•Fuel Consumption Rate		✓	✓	✓
Basic Productivity			✓	· /
•Total Payload (daily)	Is my machine being productive?		✓	✓
•Payload / hour	How efficiently is it producing?		✓	✓
Payload / liter (gal.)			✓	· ·
Site & Material Management	Is my machine doing what I expect?			*
Application & segment detail	What did it move? From where? To where?			✓
♦Time & Cycles	How much time? How many cycles?			✓
♦ Fuel & Distance	How many tons of product X did I sell?			4
Productivity & efficiency	To whom did I sell it?			4
by operator	Which operators are my efficiency leaders?			1
Production by material ID	Which need more training?			*
•Production by truck ID	Do bottlenecks suggest adjustments to number, type & capacity in my fleet?			1

¹Payload Technology versions: Cat Production Measurement v1.0, v1.1, or v1.2

TOOLS FOR SITE OPERATIONS MANAGEMENT

- 1. User customizable graphical dashboard makes it easy to visualize your operation's Key Performance Metrics (KPI)
- SAVE TIME and increase a manager's
 EFFECTIVENESS by automating data collection
 with timely reporting and presenting information
 in ways that help managers make more informed
 and quicker decisions; helping them spot
 opportunities to improve operational EFFICIENCY
 and financial PROFITABILITY.
- Fine-tune operations to improve BIDDING ACCURACY and increase PROFITABILITY.
- Highlight signs that haul roads might need maintenance for QUICKER CYCLES or monitor where bottlenecks are occurring to correctly match loading and hauling units to help OPTIMIZE FLEET SIZING and correct machine assignments.

2. Export data in .csv file format

- Export detailed cycle by cycle production data tagged by date, time, operator, material ID, truck ID, and application profile.
- Upload into your business/accounting systems; or for further analysis in applications such as Microsoft® EXCEL™.

3. Wireless off-board list management

- Create and manage your truck ID and material ID lists from the back office and "push" them wirelessly to your loaders³ to update their on-board lists on-the-go with no need to stop their operations.
- SAVE TIME, travel, and avoid lost PRODUCTION.

AVAILABILITY

L Series	M Series
950L	950M
962L	962M
966L	966M / M XE
972L	972M / M XE
980L	980M
	982M

Equipped with:

- 1. Cat Production Measurement 2.0 and
- 2. Product Link™ Elite PLE641 3G cellular telematics

INDUSTRIES

- Materials producers: mining, aggregates, sand and gravel, cement and asphalt, plants, fertilizer
- Metals industries: mills, smelters, scrap processors
- Municipal: waste and recycling, transfer stations

Essential KPIs Reported

- Application Time:
 - Application time: load/haul/ dump, roading
 - Segment time: load, travel loaded, dump, travel empty
 - Runtime

• Application Fuel:

- Fuel burned
- Fuel burn rate
- Segment fuel burned
- Segment burn rate

• Cycles:

- Cycle count
- Average cycle time
- Average fuel burn per cycle
- Average segment breakdown (fuel, distance, and time)
- Day tracker cycle

• Payload:

- Payload per hour
- Payload per fuel
- Payload distribution plot



²Cat Production Measurement v2.0

Cat® Advanced Productivity App



KPI data visualized in dashboard with interactive charts that can be customized to suit your preferences.

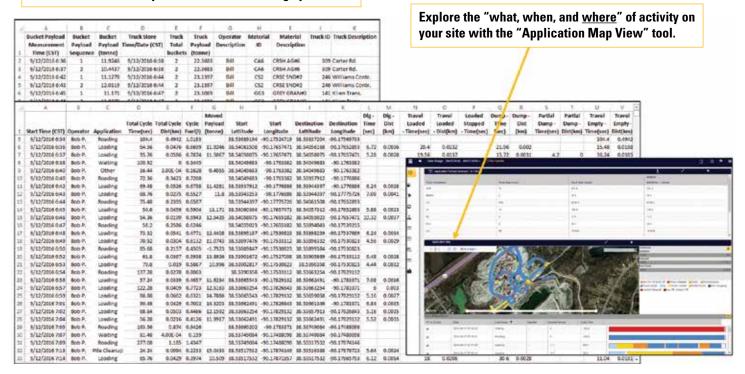
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Manage material and truck lists from the office and synchronize wirelessly with the onboard lists of just one or your entire loader³ fleet.



³Equipped with CPM 2.0 and subscribed in Cat Advanced Productivity app.

Export detailed production data as .csv files and import into Microsoft® EXCEL $^{\text{m}}$ or your business accounting systems.



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