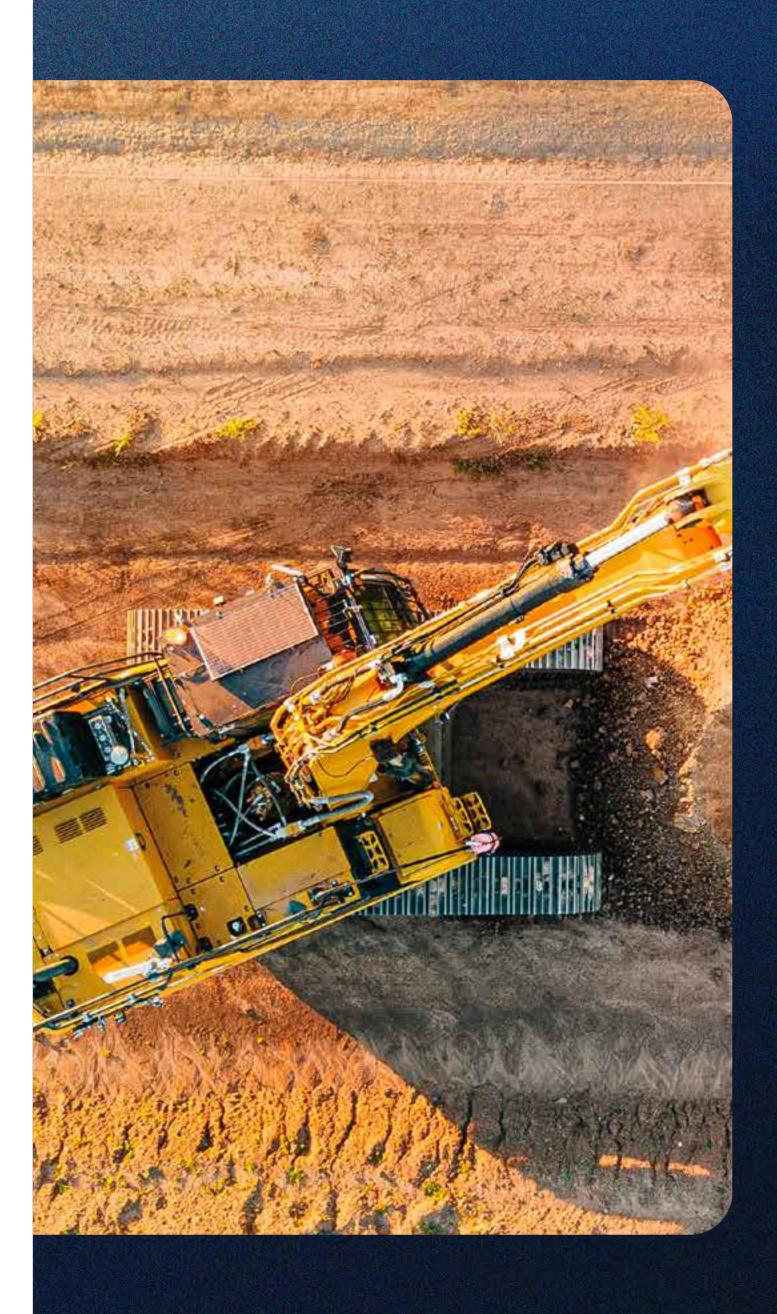
## CLUE

# The Equipment Manager's Playbook 2026

Essential Tips & Guides for Streamlined Operations





# The Equipment Manager's Playbook 2026

**Essential Tips & Guides for Streamlined Operations** 

#### Acknowledgements

We extend our heartfelt thanks to the many professionals—equipment managers, owners, VPs, mechanics, shop managers, and industry experts—whose insights and experiences made this booklet possible. All the good ideas we have ever received have come from the mouths of our greatest teachers: our customers.

We are especially grateful to Prof. Mike Vorster and to the following individuals who have inspired us to develop Clue and shared their wisdom: Tony Bere, Jon Kaye, Julio Lopez, Rusty Lutz, Kelly Parker, John Sharp, Darrin Sheriff, Justin Smith, and Brandon Wallace.

Our deepest gratitude also goes out to the many people who work tirelessly to drive this industry forward, especially those at AEMP, CFMA, AEM, AGC, and ENR. Your efforts make a significant impact every day.

This is just the beginning of our journey with this playbook, and we know it can only get better with your help. We're committed to making it as valuable as possible, so if you spot anything we missed or have ideas to share, we'd love to hear from you. Please reach out to us at playbook@getclue.com. Thank you for being part of this journey.

# Efficiency is doing things right; effectiveness is doing the right things.

**Peter Drucker** 

This guide is crafted to support you in mastering the complexities of equipment management. It's designed to be a practical resource that you can rely on, whether you're fine-tuning operations or solving tough challenges.

We created this playbook to share the wealth of knowledge gathered from the best in the industry. The insights here come from top equipment managers across the country, managing over 250,000 assets collectively. Their real-world experience has been distilled into actionable tips and strategies.

This Playbook will be updated annually, keeping you equipped with the latest and most effective tools in the field. Armed with this knowledge, you're ready to elevate your operations and achieve lasting success.

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#### 1 Utilization is how you make money

Staying on top of your utilization figures is the key to ensuring the equipment account isn't in the red.

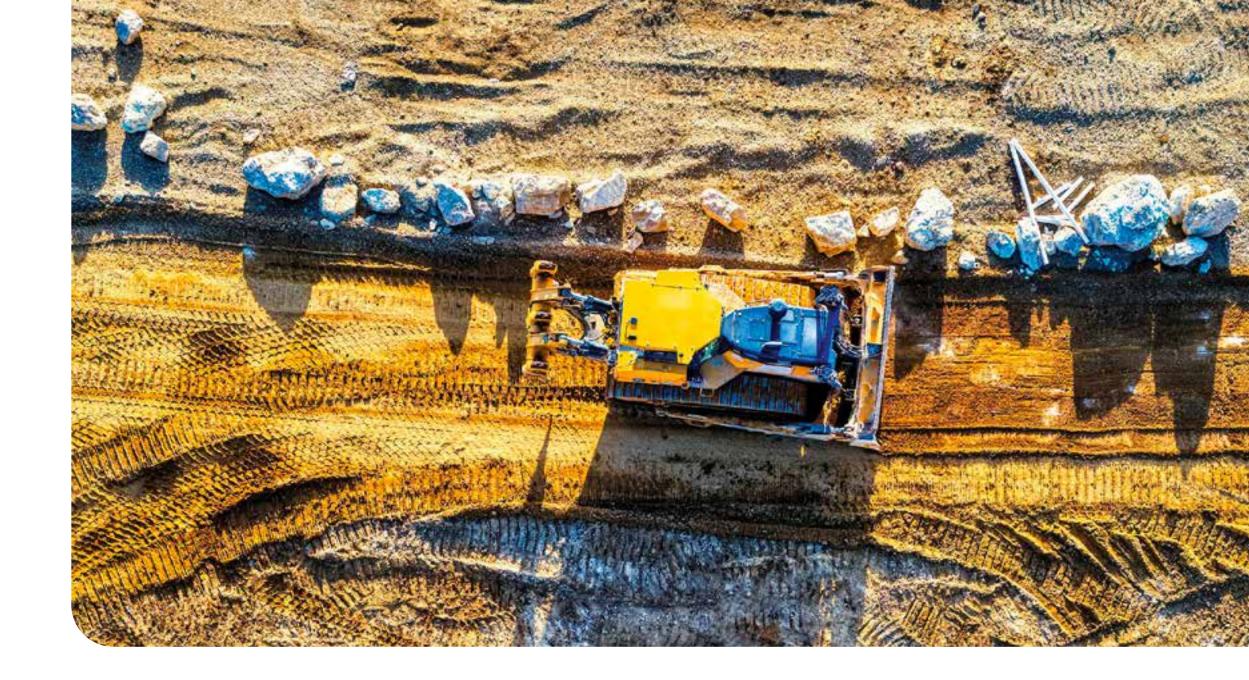
At the start of the season, make sure you:

 Set a baseline utilization target that's in line with your equipment rates.

Many opt for a 44-hour weekly target and adjust for each asset class, for example 30 hours for skid steers.

- Adjust your target for seasonality. If you operate for 9 months, your utilization needs to be higher during the active season.
- Track your actual utilization results every week not just at month end.
- Separate utilization data for owned/leased and rented assets for better decisions.





# Charge correctly for machine underutilization

It's easy for underutilization to get hidden within job equipment costs. By assigning a specific cost code, you can bring to light the real impact of underutilization. This helps operations and management see how much money is being wasted and find opportunities to boost efficiency.

#### Here's how to do it:

Create a dedicated cost code for machine underutilization

Capture the hours when assets don't meet expected usage. For example, if your rate is based on 8 hours daily, any shortfall can be accounted for using this code.

Categorize underutilization into "external factors" (e.g. site delays) and "convenience underutilization" (e.g. assets unused by choice).

Generate weekly reports by job and asset class to identify true cost to the business.

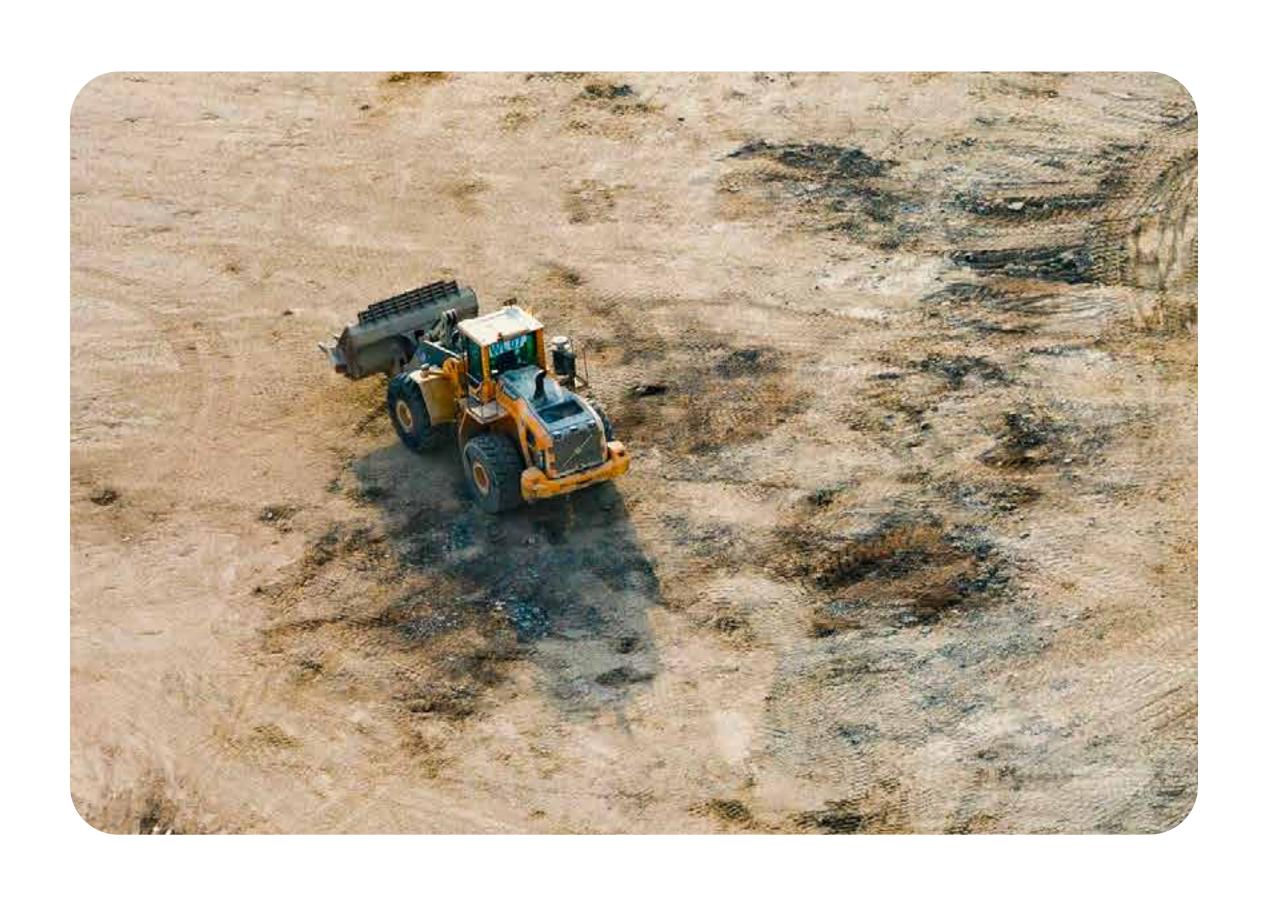
# Ask until when for every asset request

# When your foremen request assets, prompt them to specify the duration needed by asking, "Until what date?"

This simple step ensures clarity and improves planning for asset return, enhancing overall efficiency across your operations.

- Avoid allowing responses like "I don't know".
- Encourage estimates, such as "2 weeks" or "3 months".

By setting clear timeframes, you ensure better asset management and minimize idle time, leading to more effective operations.



# Automate rental reports to cut costs

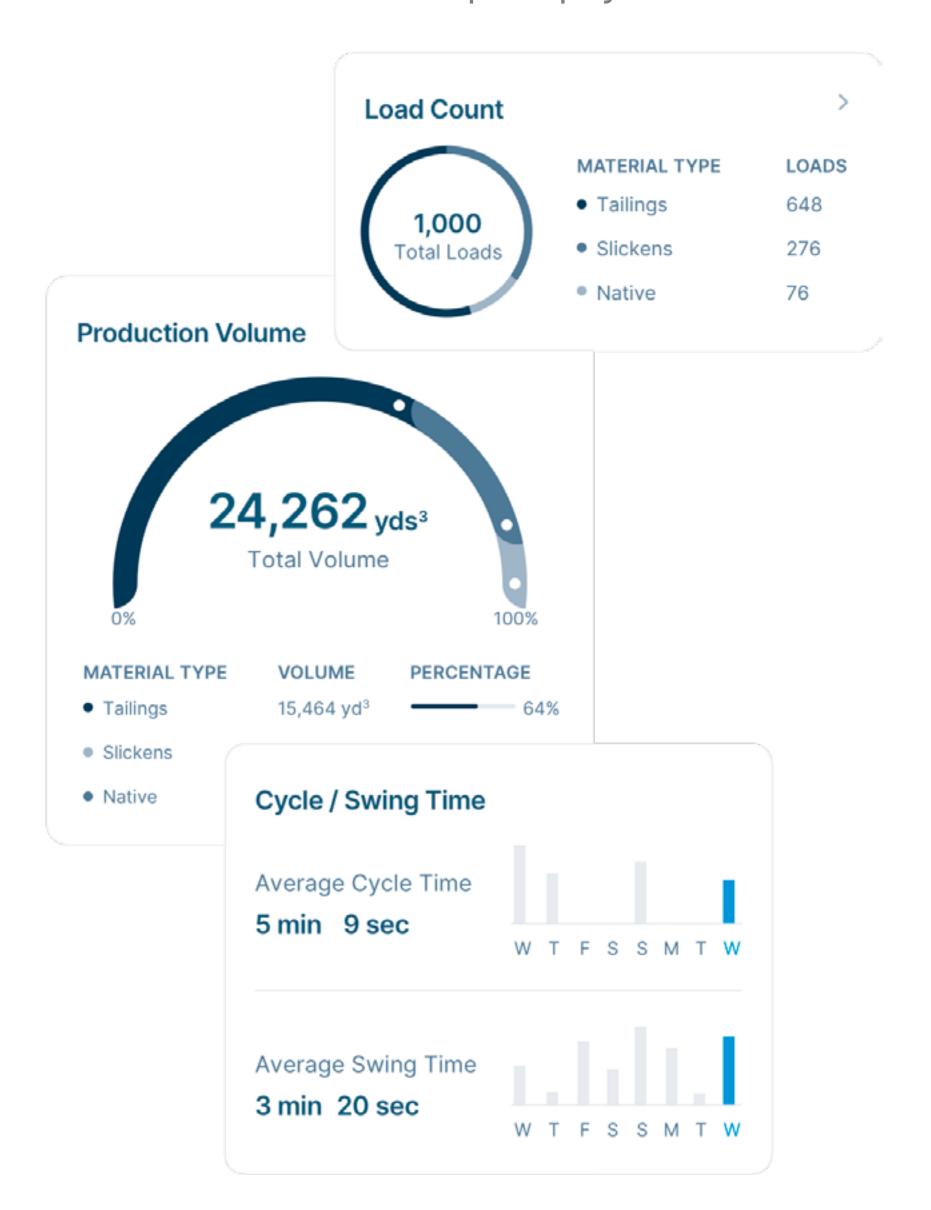
Use rental reports to trim costs like a pro.

Take advantage of the free online portals from rental companies like United Rentals, Sunbelt and EquipmentShare. These platforms offer valuable information, including telematics data on your rented assets.

Do you rent from dealers? Ask them to add your rentals to your telematics account.

#### Setting up automated reports

- Focus on identifying underutilized rentals over the past 7 days or 28 days.
- Add project managers, superintendents and foremen to these alerts.
- Call-off under-used assets promptly to reduce costs.



# Try live production tracking

Like the old days with a stopwatch on a hill, precise measurement is key. Bringing back that focus on tracking production can unlock true efficiency and success.

Shift your focus to real-time production tracking to boost efficiency.

Most modern GPS and many telematics systems can report your equipment location every 2 seconds. You can use this data to monitor cycle times, load counts, and production volumes as they happen, giving you immediate insights into your operations.

With real-time tracking, you can quickly spot and address bottlenecks, adjust workflows on the fly, and keep your projects running smoothly. Embracing real-time tracking helps ensure that your production stays on track and meets your goals.

Mastering equipment managementis key to profitability. Optimize your utilizationand costs, and watch your projects transform from plans to profit.

#### Record every breakdown

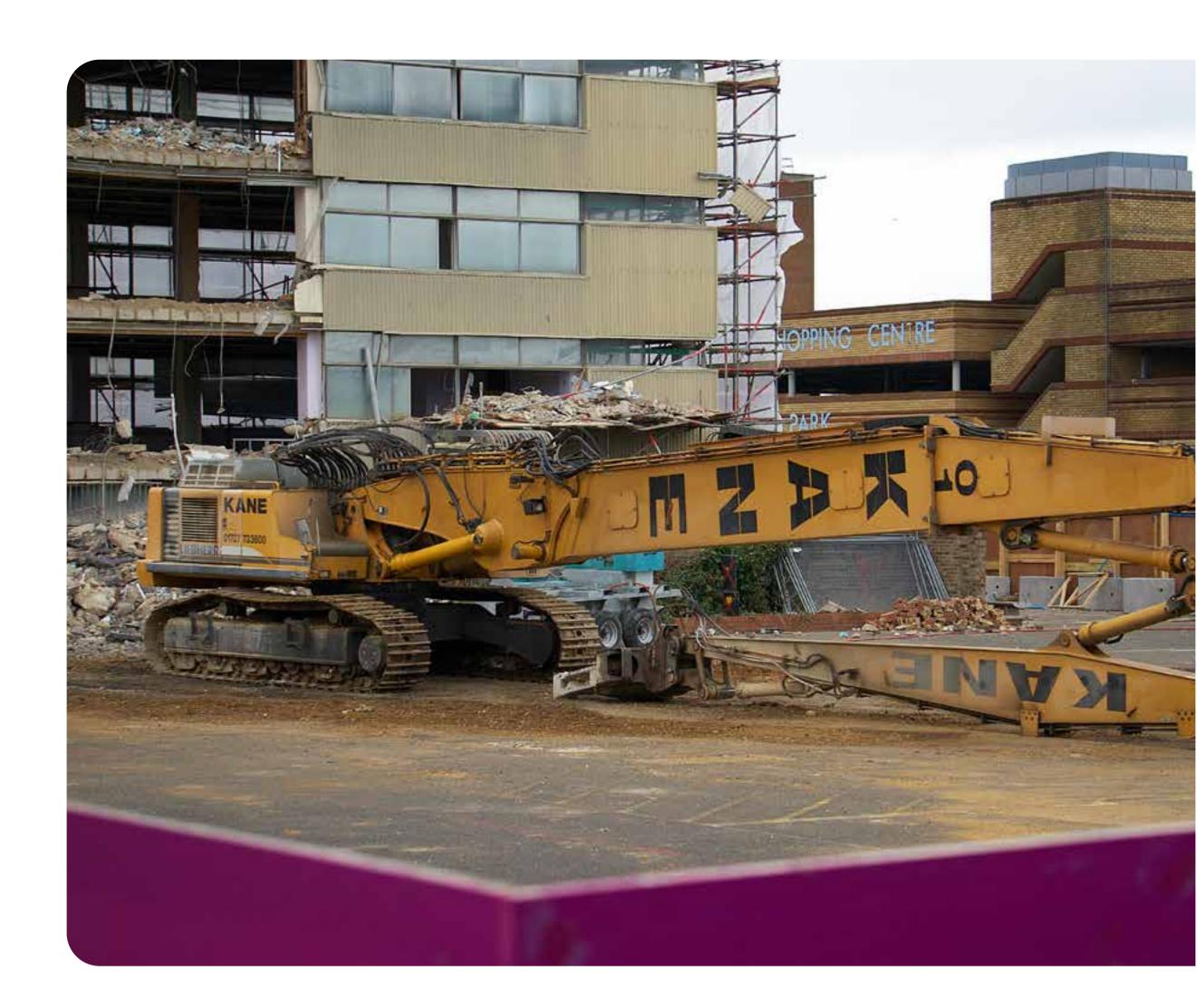
Keeping a detailed log of every on-site breakdown is your golden ticket to smooth operations.

Unplanned equipment downtime averages 4 hours per incident. When you add in transportation, rental costs, and site disruption, a single breakdown can cost tens of thousands of dollars.

You can't improve what you don't measure, so it's essential to have a system in place to track on-site breakdowns daily, weekly, and monthly.

#### Record this data:

- When did the breakdown happen?
- Who reported it?
- How long did it take to fix or replace the equipment?
- What was the cause and remedy?



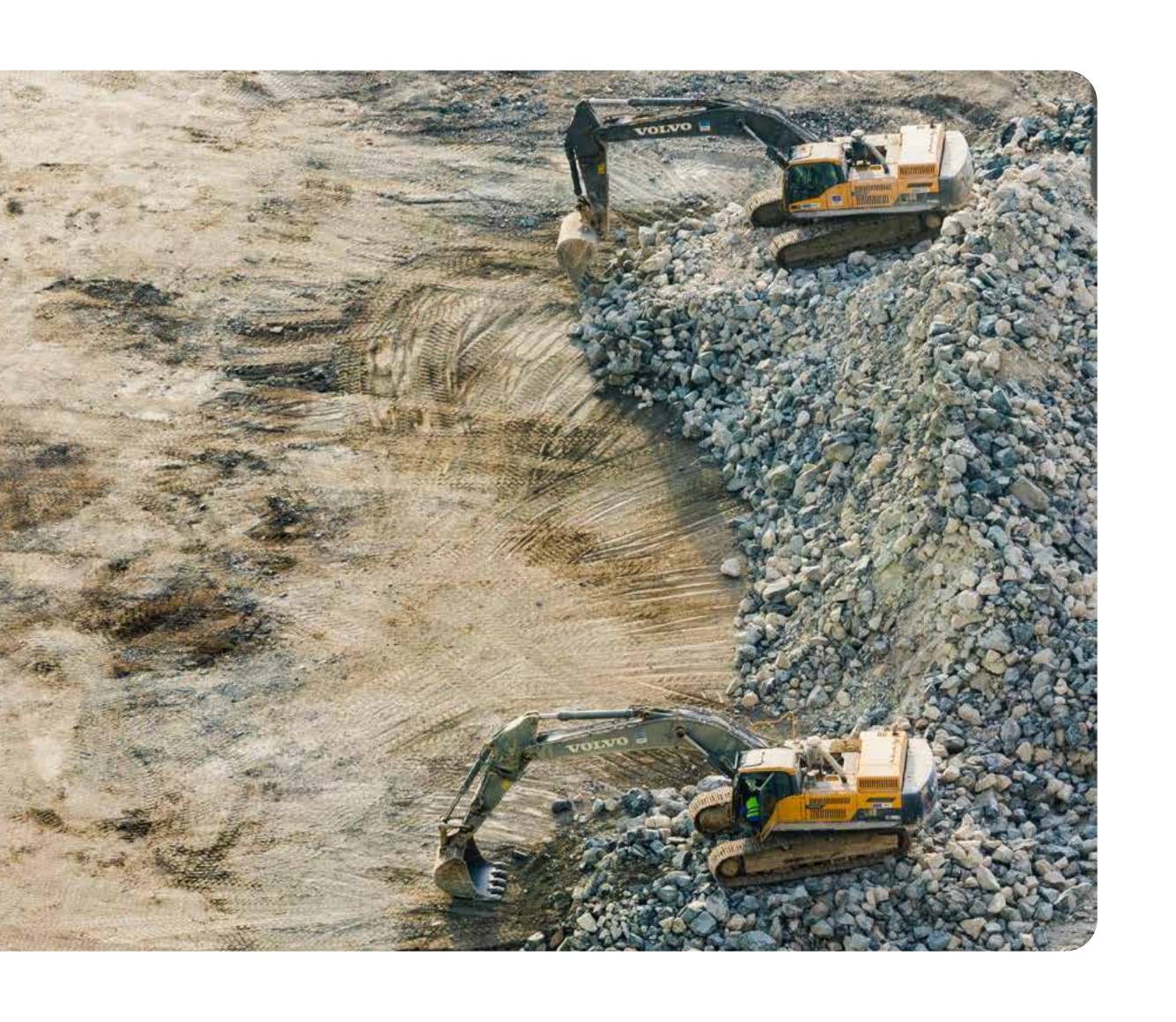
#### Track your reliability

The AEMP/CFMA Comparator sets the benchmark for downtime at 3.0 events per 1,000 operating hours.

Tally up machine breakdowns and divide it by your total operating hours x 1,000. This metric gives you a clear picture of reliability.

Then, compare numbers across the same product class. Spotting outliers? It might be time for a rebuild or replacement. Or, reconsider your maintenance program or choice of equipment. It's a simple yet powerful way to keep your fleet in top shape.

### Reliability = # breakdowns divided by total operating hours x 1000



## Focus on your #1 fault code

Until it's no longer your top issue.

Pinpoint your top engine fault code causing breakdowns — whether it's low DEF fluid, oil pressure, or hydraulic pressure. Then, set up automated emails to alert mechanics pronto.

By zeroing in on your #1 issue, you tackle it head-on until it's no longer your top concern.

#### **Top Fault Codes**

Transmission Oil Filter Restriction

**Engine Fuel Filter Pressure** 

**Engine Cooling Downtime** 

After treatment DEF Lines not purged

SCR Operator Inducement

Differential Pressure Sensor Voltage

High EGR Temperature

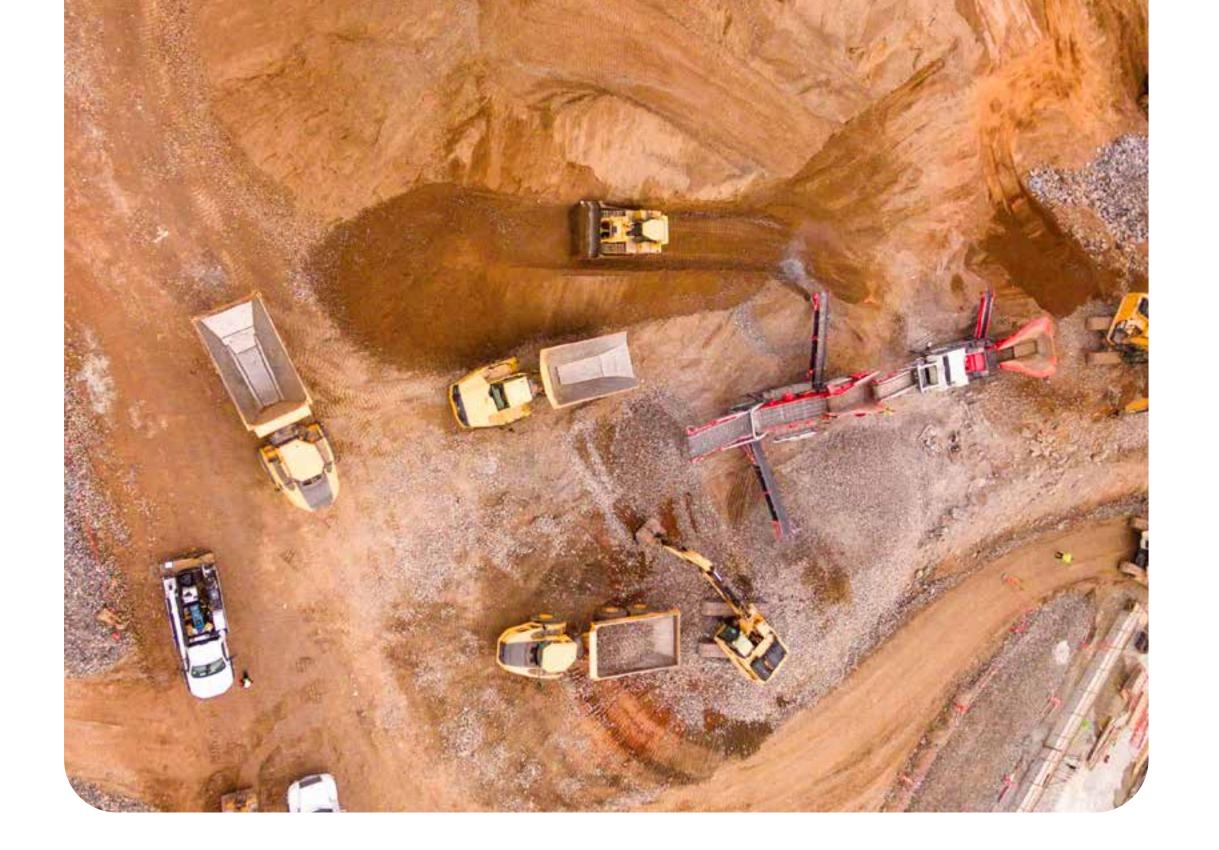
**Water in Tank** 

Service Brake Misuse

**EVAP System Leak Detected** 

Drive Axle Temperature Voltage

Random Misfire Detected



# Get the operators involved

Your operators are the ones using your machines day in and day out. If your goal is to keep things running smoothly, you need to give them a reason to be proactive about reporting issues.

The Key: Create a feedback loop when they report an issue. Here's how:

- Send a simple "Thank You" for reporting.
- Automate an alert to let them know someone is addressing the issue.
- Provide status updates when a work order is created to fix what they reported.

You can do this using an app, your CMMS, or even an internal process. The important part is keeping operators in the loop throughout the repair process. When they see their feedback making a difference, they'll feel valued and motivated to keep your machines running smoothly.

# Classify work orders accurately

Classifying work orders with the right code is the key to measuring and improving your maintenance efficiency.

Here are codes you should consider tracking:

#### **Breakdowns / Down Events (RED)**

Unplanned failures.

#### **Operator Damage**

Repairs from operator errors.

#### **Condition-Based Maintenance**

Based on equipment condition.

#### **Preventative Maintenance (PM)**

Scheduled maintenance tasks.

#### **Capitalized Repairs**

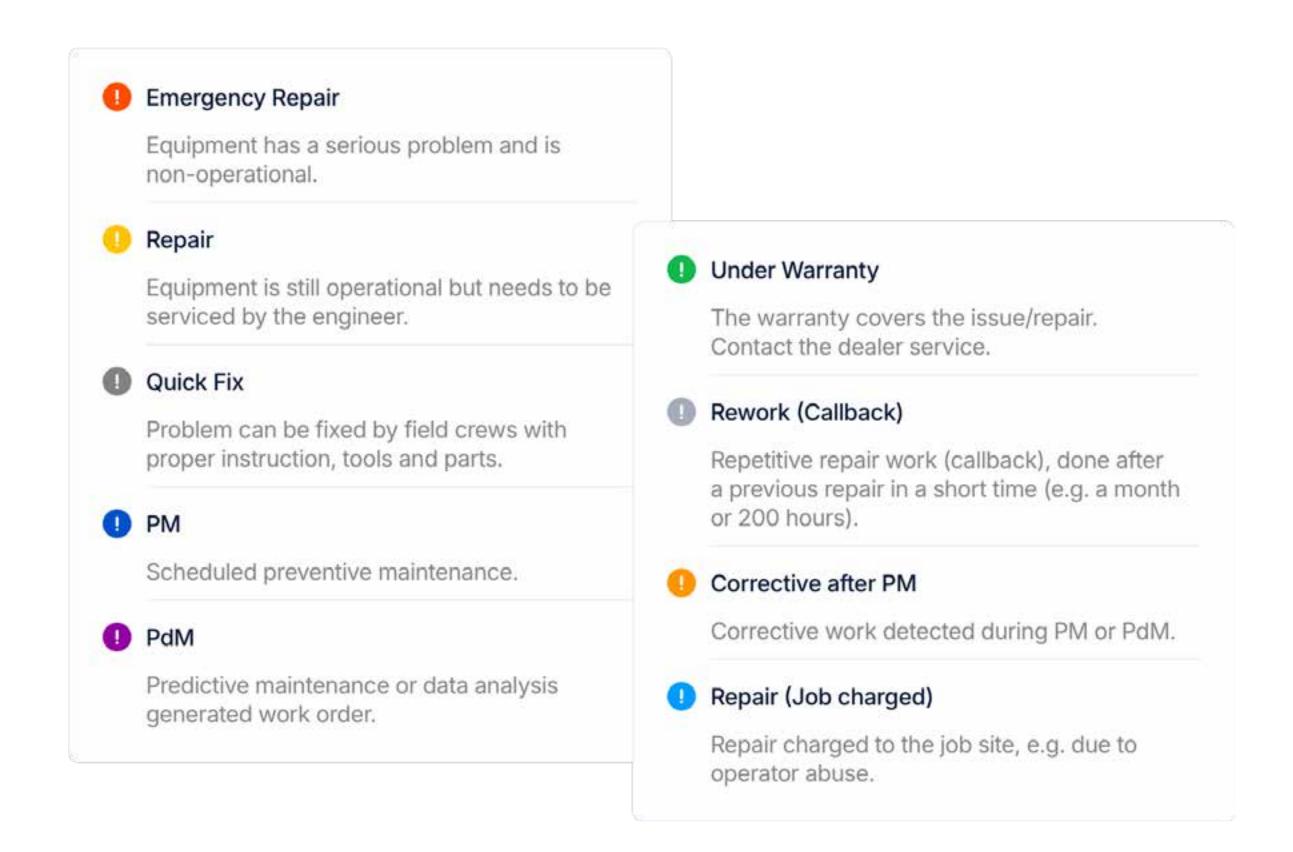
Major repairs to extend equipment life.

#### **Corrective Work**

Issues detected during PM.

#### **Rework (Callback)**

Repetitive repairs needed soon after previous work.



# Recruit your lowboy drivers to take four-corner photos

Empower your transport drivers to be your eyes on the road.

Task them with snapping four-corner photos after every transport. Then, if a breakdown or site damage occurs, these photos serve as your digital evidence —helping you verify the cause and navigate the next steps with confidence.











#### **Post-Delivery Report Equipment Overview**

Equipment # EX-204

Serial Number

3105212

Make Caterpillar

8740

**Engine Hours** 

Model 336F

1640

Odometer

Year 2017

#### **Inspection Overview**

Inspected at 9:12 AM, Aug 6th 2024

Project Name Tilopa Heights Inspected by David Jennings

#### **Inspection Summary**

#### **Post-Delivery Inspection**

Front-left	1 photo	Front-right	2 photos
Rear-right 2	photos	Rear-left	1 photo
Damage Report		Additional Charges	
No visible damage	$\odot$	Standby time (in hours)	1hr

# Leverage lube truck drivers to handle basic maintenance

Equip your lube truck drivers and fuelers with tools to run basic inspections, like checking fluid and oil levels.

This allows you to shift simple maintenance tasks away from senior mechanics, who don't need to handle these routine checks.

By doing this, you can better manage the growing demand for mechanic hours and use their time more efficiently on complex.

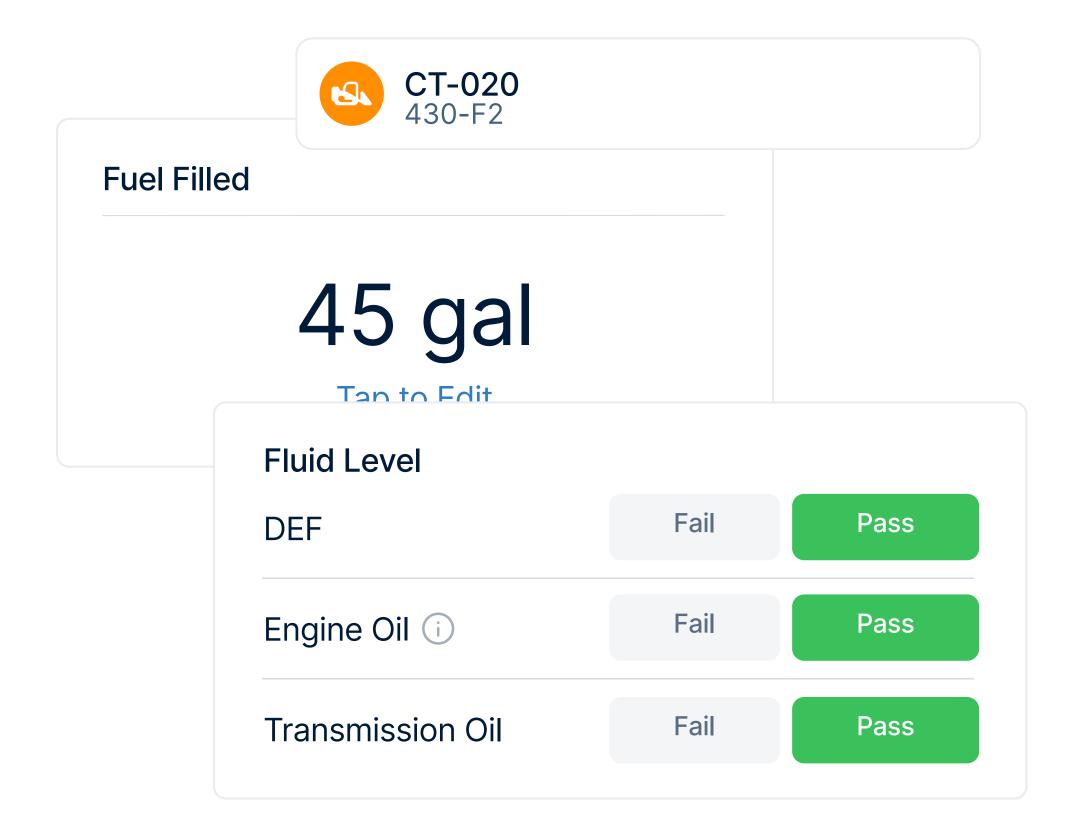
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# Track 'glass' related issues

Keep tabs on glass-related repairs:

Keep a separate tally for repairs involving windows, mirrors, and windshields.

By logging these specific issues, along with foreman and job details, you can identify patterns of potential operator abuse and address them proactively.



# 4 revenue numbers to check every month

To ensure you're on track, focus on these 4 key revenue-related numbers each month:

Target Hours	Planned equipment utilization (e.g. 44 hours per week)
√ % Revenue Lost	
Available Hours	Hours the machine was available (excluding downtime for maintenance, repairs, transit, etc.)
↓ % Under Utilization	
Reported Hours	Hours reported by your crew
Actual Hours	Hours recorded by telematics or GPS

These checks help you spot issues, improve tracking, and maximize your revenue.

SICCESS comes notifican anowled ede implementation ofthat knowledge.

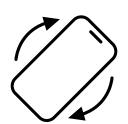
Mike Vorster

# Use churn charts for capex budgeting

Churn charts are a powerful tool for planning your capital expenditures (capex). They help you visualize the expected usage and lifespan of your equipment, so you can make informed decisions about when to replace or maintain your assets.

- 1. List all assets with their make, model, year, and current operating hours.
- 2. Decide on maximum life and annual utilization.
- 3. Use the chart to see future usage trends. Green means on target, orange indicates approaching limits, and red signals overuse.
- 4. Plan capex. Identify when equipment will need replacement based on usage predictions. Budget for these expenses in advance to avoid downtime.

#### View charts



# Asset Class | Pavers

			Year 5	Year 4	Year 3	Year 2	Year 1			Recommended Capital Expenditure	Recommende
									3.5		Average age
10,690	9,390	8,090	6,790	5,490	4,190	2,890	1,590	290	2024	CAT AP 1000F	RO 601
10,740	9,440	8,140	6,840	5,540	4,240	2,940	1,640	340	2022	CAT AP555	RO 552
11,315	10,015	8,715	7,415	6,115	4,815	3,515	2,215	915	2022	CAT AP600F	RO 540
11,628	10,328	9,028	7,728	6,428	5,128	3,828	2,528	1,228	2021	Vogele	RO 539
12,503	11,203	9,903	8,603	7,303	6,003	4,704	3,403	2,103	2020	CAT AP 1000F	RO 537
13,246	11,946	10,646	9,346	8,046	6,746	5,446	4,146	2,846	2019	Roadtec RP190	RO 536
13,931	12,631	11,331	10,031	8,731	7,431	6,131	4,831	3,531	2019	Roadtec RP190	RO 535
14,940	13,640	12,340	11,040	9,740	8,440	7,140	5,840	4,540	2018	Roadtec RP190	RO 534
15,760	14,460	13,160	11,860	10,560	9,260	7,960	6,660	5,360	2018	CAT AP 1000F	RO 532
17,484	16,184	14,884	13,584	12,284	10,984	9,684	8,384	7,084	2018	CAT AP 1000F	RO 528
17,351	16,051	14,751	13,451	12,151	10,851	9,551	8,251	6,951	2017	CAT AP 1000F	RO 524
11,873	10,573	9,273	7,973	6,673	5,373	4,073	2,773	1,473	2017	CAT AP 1000F	RO 523
16,764	15,464	14,164	12,864	11,564	10,264	8,964	7,664	6,364	2017	CAT AP 1000F	RO 520
∞	7	<u></u> ත	ഗ്വ	4	ω	2		Hours Now	Year	Make	Unit
			years ahead	Expected hours in the given number of years ahead	Expected hours i						
	More than 1.2 Target	Mo		0.8 - 1.2 Target		Target	0.6 to 0.8 Target		1,300	Anticipated annual utilization for class	Anticipated an
	Red			Orange		U	Green		6,000	Anticipated maximum life for class	Anticipated ma

To download a churn chart template, email playbook@getclue.com

Inflation

5%

\$650,000

\$1,950,000

\$1,365,000

\$1,433,250

\$1,504,913

2

\$2,370,237

2

New Cost

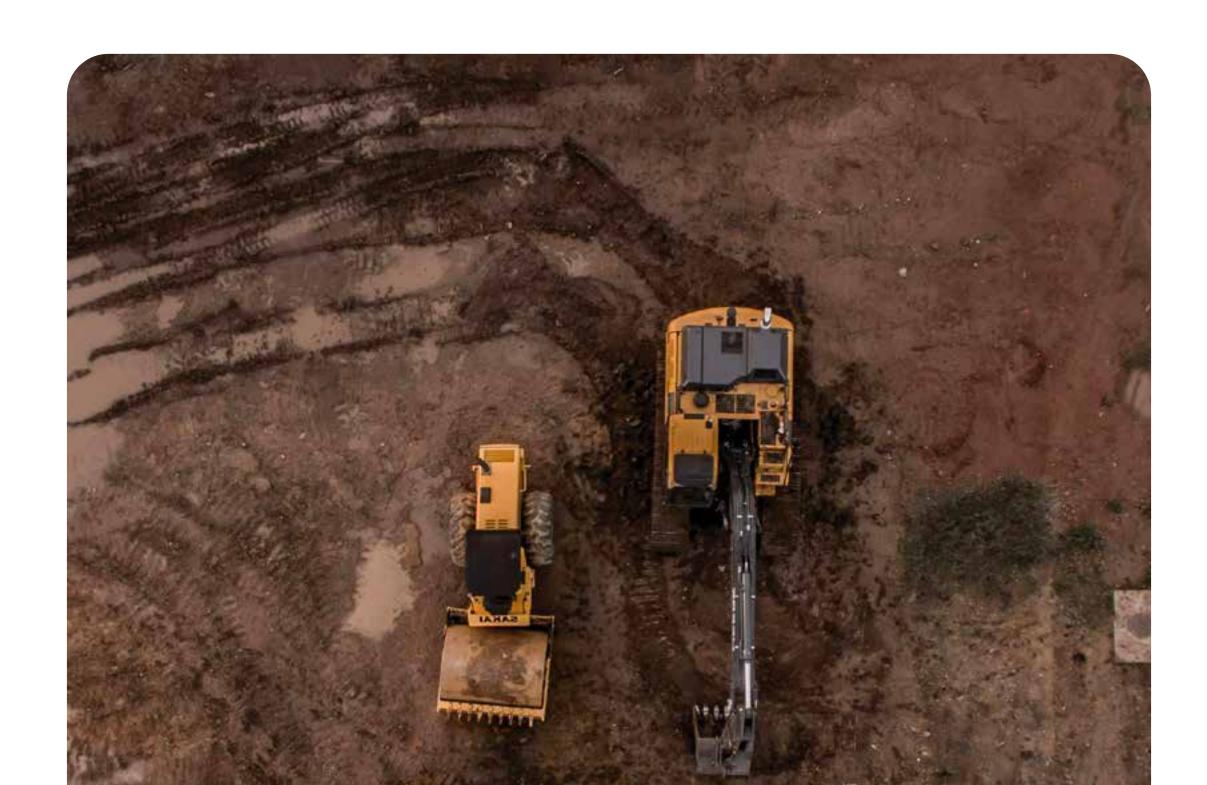
# Focus on what you can control

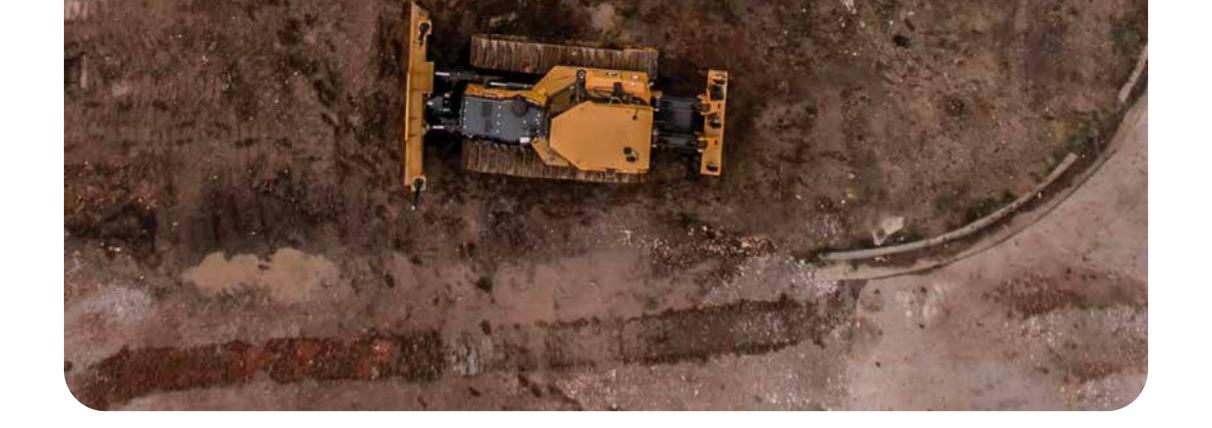
Your success depends on knowing your true equipment costs and focusing on what you can control.

You can affect asset utilization, negotiate part prices, streamline mechanic time, and balance reactive with planned maintenance.

But some things are out of your control, like how the equipment is used, fuel costs, or interest rates. Ensure your focus is on what you can control, and you'll see your success grow.

Can Affect	Cannot Affect
Utilization	On-Site Usage
Parts Costs	Jobsite Damage
Mechanic Time	Fuel Costs
Reactive v. Planned Maintenance	Weather Conditions
Daily Rates	





# Measure idling in dollars, not just percentages

According to the AEMP/CFMA Comparator, the average engine idling is 26.8% of total engine hours for on-road and off-road fleets. For a fleet of 250 assets that's on average over 190,000 gallons of gasoline and diesel each year.

But reporting idling in % doesn't translate into action for most project managers and superintendents. So, instead of percentages, talk dollars. Set a threshold for excessive idling, and tell your team the cash cost of excessive idling, not just idle rates.

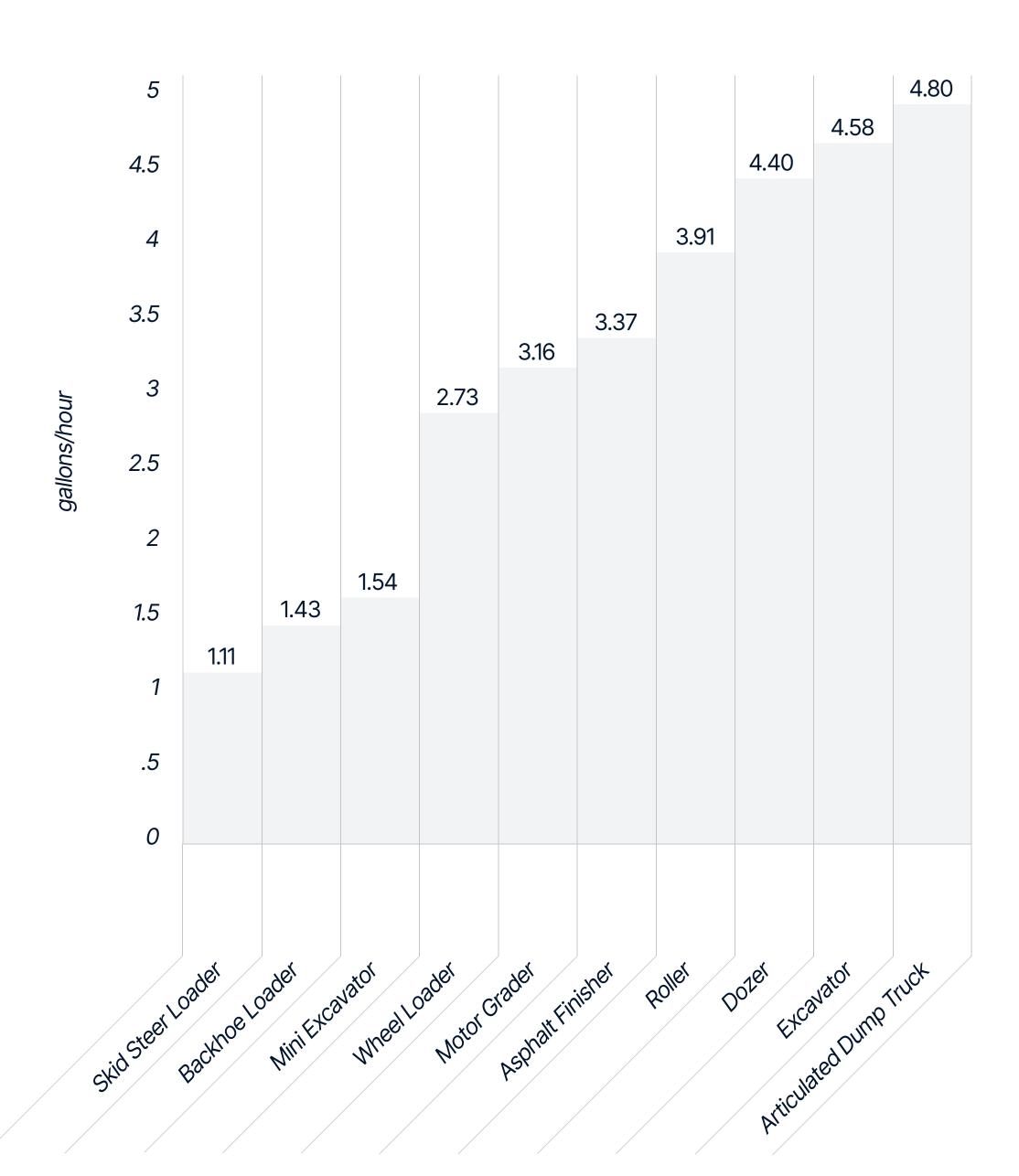
\$85	50%
Hourly Rate	Idling Rate

Hourly Rate Idling Rate

10
25%
Operating Hours Excessive Idling Target

**Excessive Idling Cost** 

 $$85 \times (10 \times [50\% - 25\%]) = $85 \times 2.5 \text{ hrs excessive idling} = $213$ 



\*Sample of 25,000 assets, May-Sept 2024

#### 18 Track fuel efficiency

Fuel expenses can make up a substantial portion—ranging from 30 to 50 percent or more—of a machine's operating cost.

To monitor how your equipment is being used, start by tracking fuel efficiency — measured as fuel consumptionper operating hour in gallons. This metric gives you valuable insights into how your field crews are using the equipment. By keeping an eye on fuel efficiency, you can better understand and manage equipment usage on-site.

Fuel Used (Gallons)

Fuel Efficiency (gal/hr) =

**Operating Hours** 

# Know the true impact of idling on capex

The real impact of idling isn't the fuel waste. It's the impact on your capital expenditure.

#### Example 1

- You purchased a \$360,000 D6 dozer
- It's idling 35% on average
- Target idling rate is 20%

You're therefore wasting 15% (35% minus 20%) machine's life on excessive idling.

That's  $15\% \times \$360,000 = \$54,000$  on one machine. This doesn't even account for the additional waste in warranties, parts, labor, and fuel.

#### Example 2

- Your average fleet idle rate is 45%
- Your target is 30%
- Annual capex is \$5,000,000
   That means 15% of fleet replacement is spent on excessive idling. That's \$750,000 per year.



# Monitor equipment operating on weekends

Keep a watchful eye on weekend equipment use to catch any unauthorized activity beyond regular business hours. This proactive measure ensures accountability and protects your assets from potential misuse.

Additionally, set up geofencing to monitor equipment movements during weekends. This allows you to receive alerts if any machines leave designated areas, further safeguarding your fleet from unauthorized use.



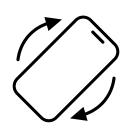
# Understand OEM telematics

#### The standard isn't standard

OEM telematics systems vary widely in the data they provide, so it's crucial to know what you're getting and what you might be missing. While some systems offer comprehensive metrics like location, engine hours, idle time, and fuel consumption, others may lack critical data points such as DEF levels or en gine status by the minute.

To make the most of your telematics, understand the specific capabilities and limitations of each OEM's system. Don't assume the "standard" offering covers everything you need. Evaluate your equipment's telematics data and consider integrating additional solutions if certain metrics are essential for your operations.

By being aware of these differences, you can ensure you're collecting the right data to keep your fleet running smoothly and efficiently.



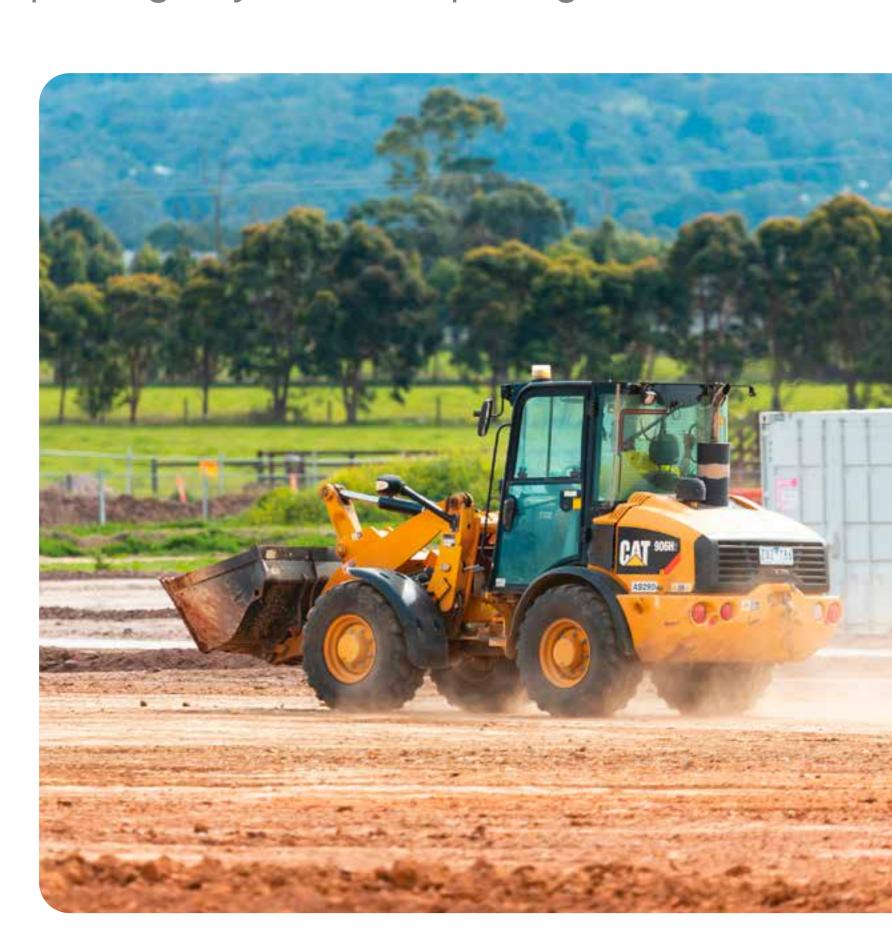
Wanco	Vermeer	Terex	Takeuchi	Linkbelt Excavators (LBX)	Linkbelt Cranes	Liebherr	JLG	JCB	Hyundai	Hitachi	Gomaco	Dynapac	Develon	Bobcat	Bell	Wirtgen	Volvo	Komatsu	John Deere	Caterpillar	OEM
		T-Link	Takeuchi Fleet Management	RemoteCare	iCraneTrax by A1A	LiDat	ClearSky	LiveLink	HiMate		GRD	Dynalink	DevelonConnect	MachinelQ	Fleetm@tic®	Witos	CareTrack	Komtrax	JDLink	VisionLink	Telematics
<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	$\bigcirc$	<b>(</b> )	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	$\bigcirc$	<b>(</b>	<b>(</b>	<b>(</b> )	$\bigcirc$	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	Location
	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b>	<b>(</b> )	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b>	<b>(</b>	<b>(</b>	Engine Hours
	<b>(</b> )			<b>(</b> )			<b>(</b>		<b>(</b> )	<b>(</b> )		<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b> )	<b>(</b> )	<b>(</b>	Idle Hours
	<b>(</b> )	<b>(</b> )					<b>(</b>		<b>(</b>	<b>(</b> )		<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b>	Fuel Consumption
	<b>(</b>								<b>(</b>	<b>(</b>			<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b> )	<b>(</b>	<b>(</b>	Faults/DTC
	<b>(</b> )			<b>(</b> )				<b>(</b> )		<b>(</b> )		<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	<b>(</b> )	Fuel Tank Level
	<b>(</b>			<b>(</b>				<b>(</b>				<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	DEF Level
																			<b>(</b> )	<b>(</b> )	Engine Status by Minute

## Make the most of free telematics offers

Many leading equipment manufacturers provide complimentary telematics to help you manage your fleet more effectively.

- John Deere: JDlink is free on all eligible machines, with no need for ongoing subscription renewals.
- Komatsu: Komtrax comes standard on most new models, offering five years of free service.
- Volvo: CareTrack is available at no cost for four years on select machines.
- Wirtgen: Witos FleetView is guaranteed free for the first three years.
- Bobcat: MachinelQ Basics is free for two years on all connected equipment.
- Caterpillar: VisionLink may be offered complimentary for an initial period, depending on your service package.

Reach out to your dealer to activate these services and start optimizing your fleet without extra costs.



# You don't need GPS on every asset

Use inspections to tell locations.

For non-connected assets lacking GPS or telematics, these morning inspections are golden opportunities. By noting down the latest known locations during walk-arounds, you're essentially creating a breadcrumb trail.

Maximize your morning machine inspections by turning them into location scouts.

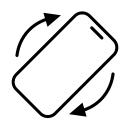
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# Tailor the right tracker for each asset class

There's no one-size-fits-all tracking solution for all your assets. Here's how to find the best fit:



- Use OEM Telematics: Leverage built-in solutions from manufacturers.
- Shop around for on-road trackers: Focus on vendors offering dashcams, AI, and insurance deals.
- Find Solutions for older assets: Look for options that connect non-connected yellow iron and older equipment.
- Track Stationary & Unpowered Assets:
   Choose specialized solutions for assets that don't move.
- Explore providers and run pilots to ensure you get the best tracking solution for each asset in your fleet.



HCSS

Heavy Equipment tracker Satellite Asset Tracker 3G Wired unit

OBD-II unit

PT Pacific Track

PT40 or PT10

PT30

samsara

AG-53 or AG-26 (previously AG-52)

VG-54

AG-51

AT-11

Tenna

TennaCANbus

TennaFLEET

TennaMINI 2.0 Plug-In Solar

TeletracNavman

RE400 VT101

SI201

ST101 ATS1

TrackUnit

ZTR M7

TU700

Trackunit Raw

Trackunit Kin

TennaBLE Beacon Steel Puck

Zonar

Zonar V4 and V4R

Zonar LD

Zonar ZTrak

Zonar ZTrak

VerizonConnect

EAT
CalAmp (Various)

VDD VT-400 CalAmp (Various)

Xirgo EAT, EAT-B CalAmp (Various)

# Technical spec

GEOTAB	EquipmentShare	a dp	azūga		Hardwar	How is it powered?	How does it transmit data?	How do you connect it?	
ΓAB	ntShare		æ		Hardware providers	ered?	ansmit data?	onnect it?	
GoRugged9	Morey MC4+ Calamp 2830	AssetCommand Max Titan	Datalogger or GV600	Yellow-iron heavy assets		Wired with battery back-up	Cellular (4G/5G) Some have satellite backup	9-pin, 14-pin (J-1939 or J-1708) 3-wire	Yellow-iron heavy assets
Go9	Morey MCX101 Calamp 3030	FleetView	Datalogger	On-road trucks		Wired with battery back-up	Cellular (4G/5G)	OBD-II or J-1939	On-road trucks
GO Anywhere	Calamp 730	AssetView Stealth AssetView Mini	GL502	Unpowered assets (trailers, generators)		Battery Some solutions can recharge using power or solar	Cellular (4G/5G)	3-wire	Unpowered assets (trailers, generators)
GO Anywhere	EquipmentShare Bluetooth Node			Small tools		Battery	Bluetooth-low energy + gateway		Small tools

## Optimize fueling with telematics data

Maximize fueling efficiency with targeted data.

Use your telematics data like fuel consumption and fuel tank level, to equip your fuelers and lube-truck drivers with daily lists of assets needing fuel, optimizing routes and boosting productivity.

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# Centralize your rental management

Use a single-pane-of-glass for your rentals.

Streamline your rental operations by centralizing everything in a single system. Rental companies like United Rentals offer APIs, such as with their TotalControl software, allowing you to manage rentals from PO to utilization tracking in one place.

You can also integrate rentals from dealers into your telematics system. Whether you have an in-house software or use Clue, you can save time by consolidating your entire rental process.

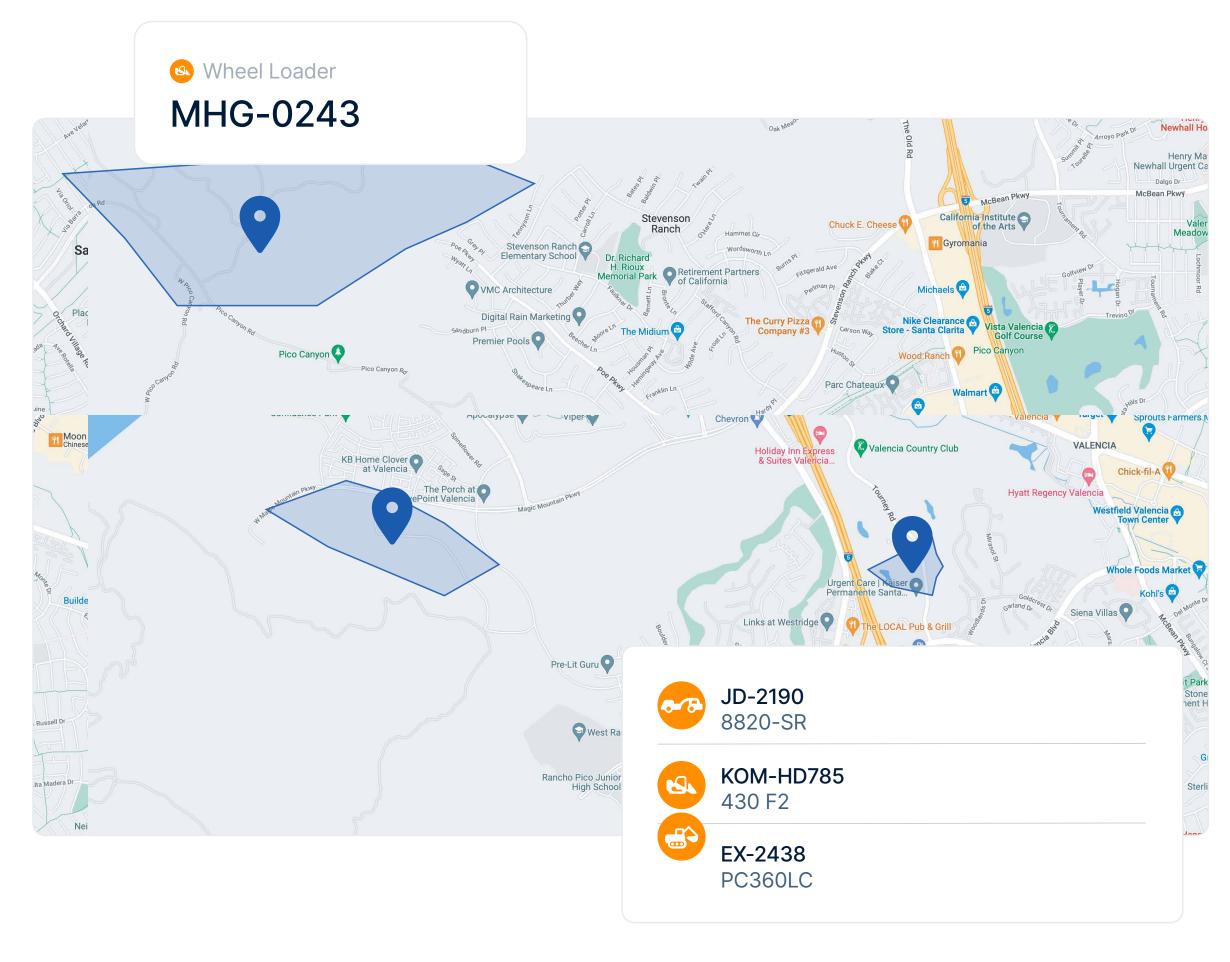
The benefits include monitoring under-utilized rentals, comparing rates, and ensuring timely call-offs, all from a central hub.



		64	n Rent	
PO/Asset Name	Serial Number	Make	Asset Type	Status
Rental: Excavator	KXH20285	Caterpillar	Excavator	Off Rent
Rental 60ft Lift	0300266177	JLG	Boom Lift	On Rent
R/R A185 Compressor	B4-6E13332	Other	Air Compressor	On Rent
Rental: Excavator	KXH20285	Caterpillar	Excavator	Off Rent
Rental: Wheel Loader	VCEL-120HA0S6	Volvo	Wheel Loader	On Rent
Boom Mount	S65XCH-46430	Genie	Breaker	On Rent

# Use geofences to assign assets to jobs

Automate asset assignments effortlessly with geofences in your telematics or maintenance system. No more waiting for foremen reports — this proactive approach keeps operations running smoothly and boosts efficiency.



# Learn to speak the CFO's language

As Jon Kaye CEM, VP Equipment at Miller Bros puts it:

Speaking your CFO's language is your biggest career accelerator.

Learn the ins and outs of your P&L, GLs, cost codes, phase codes, and the financial reporting cycle.

What was your Repair and Maintenance (R&M) budget last year? What was the actual result? What was the breakdown between parts and labor? What are your budget assumptions about fuel rates and interest rates?

And most importantly, what are your CFO's top priorities this year?



#### Benchmark yourself

To improve operations, compare your performance systematically with peers using tools like the AEMP/CFMA Comparator.

#### The AEMP Heavy Equipment Comparator helps by:

- Standardizing terms and metrics.
- Providing clear calculation methods.
- Offering fleet benchmarking against peers.
- Sharing industry averages and best-in-class KPIs.

Leverage this tool to optimize fleet management, reduce costs, and boost efficiency. Benchmarking shows you where you stand and helps you find the path to excellence.

Metric 3  Equipment Repair & Maintenance (R&M) as % of Fleet Replacement Value	12.4%
Metric 10 Equipment Utilization as % of Planned Utilization (hours basis)	71.9%
Metric 12 Engine Idling (mixed on-road and off-road fleets)	28.9%
Metric 15 PM and PdM as % of Maintenance Hours	14.5%
Metric 30  Down events for 1,000 operating hours	3.0

Metrics provided courtesy of AEMP / CFMA Heavy Equipment Comparator. Visit <a href="https://aemp.org/page/heavy-equipment-comparator">https://aemp.org/page/heavy-equipment-comparator</a>.



#### Never stop learning

# There are many ways to stay on top of the latest innovations and ideas in equipment management.

Continuous learning is the key to staying ahead in equipment management. As the industry evolves, so must your knowledge.

Stay on top of the latest innovations and ideas by subscribing to free newsletters from organizations like AEMP, CFMA, and our own at getclue.com.

These resources provide valuable tips and insights to keep you informed and ready to tackle new challenges. Never stop learning, because every bit of knowledge brings you one step closer to excellence.

#### The Equipment Manager's Playbook

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