

Construction

Example scenario

How a mine maintains haul trucks and loaders by engine hours with Asset Infinity

A surface mining operation feeds engine hours from GPS trackers into service plans, plans shutdowns for major work, and keeps component history and root cause on every haul truck and loader.



EXAMPLE RESULTS

- Every** haul truck and loader on service plans fed by its own engine hours
- 0** hour readings typed in by hand for tracked machines
- Every** major failure closed with a recorded root cause

AT A GLANCE

EXAMPLE TYPE

Open-pit mine, owner-operated fleet

EXAMPLE FLEET

40 haul trucks, 8 loaders, 12 support machines

EXAMPLE OPERATION

Two 12-hour shifts, one workshop

PREVIOUSLY

Hour logs from operators, spreadsheets

FEATURES USED

Connected

Maintenance

Assets

01 The organization

An open-pit mine runs its own fleet of haul trucks, wheel loaders, dozers and graders around the clock, maintained by an on-site workshop.

Each machine is expensive and production depends on fleet availability. Engines, transmissions, final drives and tires are tracked as components, and major work is planned into shutdowns so the pit is not caught short of trucks.

02 The challenge

Service intervals are set in engine hours, but the hours come from operators' logs that are late or wrong. Component changes and failures are recorded in spreadsheets.

- Services run early or late because hour readings are unreliable.
- Major work is scheduled ad hoc instead of grouped into shutdowns.
- Component history is lost when a part moves between machines.
- The same failures repeat because causes are not recorded.
- Parts for planned work are not reserved in time.

03 How it is set up in Asset Infinity

The mine registers every machine and major component in Asset Infinity, with GPS trackers feeding engine hours into maintenance plans.

Connected

Engine hours from GPS trackers

A GPS tracker on each machine reports location and engine hours, which update the machine's meter-based plans without anyone reading a gauge.

Maintenance

Plans by engine hours

Services at 250, 500 and 1,000 hours raise work orders when a machine reaches them, so planners see what is coming due.

Maintenance

Shutdowns and root cause

Major work is grouped into planned shutdowns. A significant failure gets a root cause analysis recorded against the machine and component.

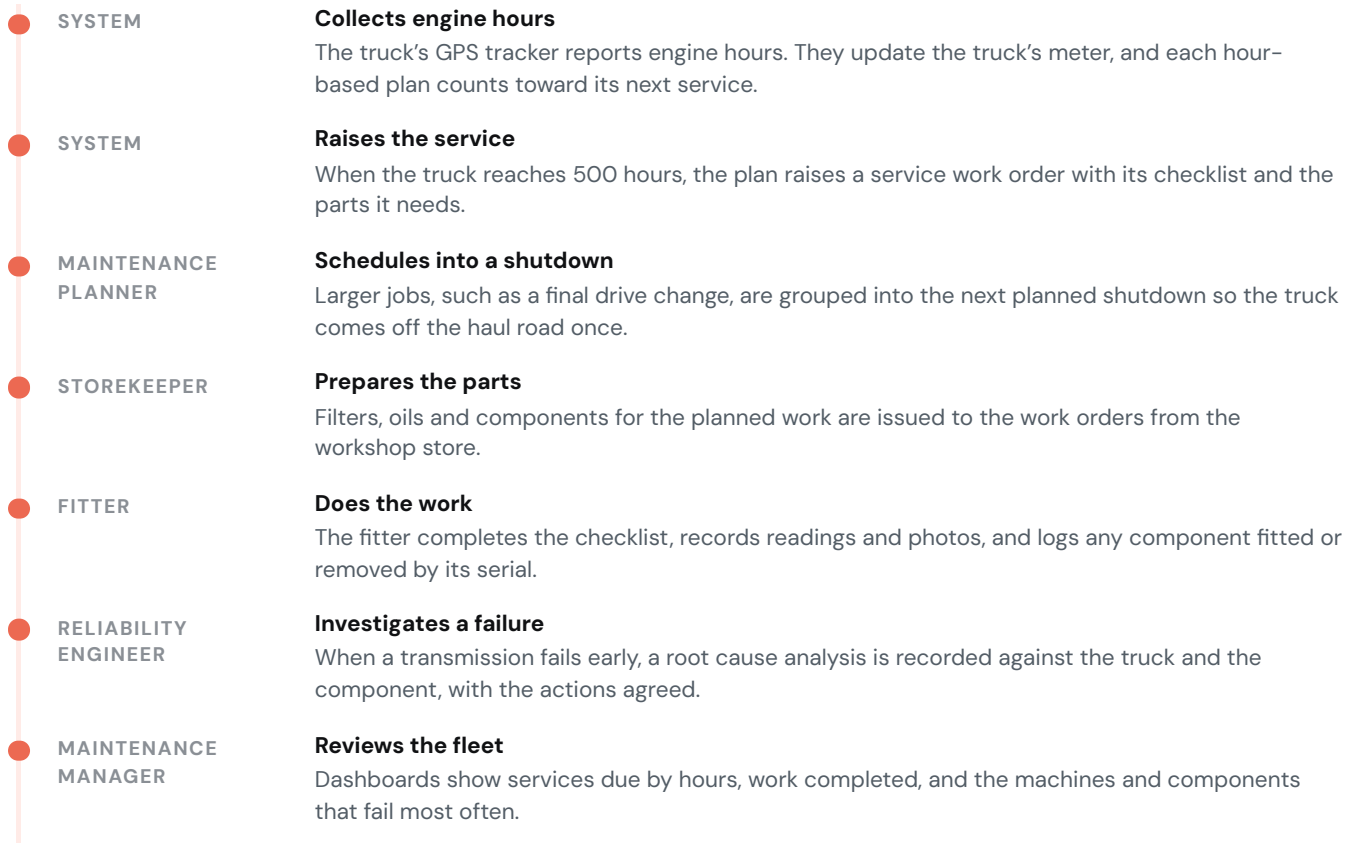
Assets

Component history

Engines, transmissions and final drives are recorded as assets of their own, so their hours, repairs and moves between machines stay with them.

04 How it works day to day

Here is how a haul truck's maintenance runs from its hours to the workshop floor.



05 Before and after

	BEFORE	WITH ASSET INFINITY
Engine hours	Operator logs, often late	Reported by GPS trackers
Service timing	Early or late	Raised at the hours on each plan
Major work	Scheduled ad hoc	Grouped into planned shutdowns
Component history	Lost when parts moved	Kept on each component
Repeat failures	Causes not recorded	Root cause recorded per failure
Parts for planned work	Found missing on the day	Issued to the work order in advance

06 The first month

1

Fleet and components imported.

Machines and their major components were imported with serials, hours and current position.

2

Trackers linked. Each machine's GPS tracker was linked to its asset, and engine hours checked against the gauge.

3

Plans and shutdowns set.

Manufacturer intervals became hour-based plans, and the next quarter's major work was grouped into shutdowns.

07 Example results

- Planners see each machine's upcoming services from actual engine hours.
- Major work is grouped into shutdowns with parts reserved in advance.
- A component's full history follows it from one machine to the next.
- Root causes recorded on failures show which problems keep coming back.

08 Why it worked

Hours nobody has to read

Trackers report engine hours directly, so plans run on accurate figures instead of handwritten logs.

Components keep their story

A rebuilt engine carries its hours and repairs with it, whichever truck it is fitted to next.

Failures teach something

Each major failure ends with a recorded root cause, so the same failure is less likely to happen twice.

09 Looking ahead

With engine hours arriving from the machines themselves, the mine's workshop services each truck and loader on time and plans major work into shutdowns rather than reacting to breakdowns.

Component history and root cause records give reliability engineers the evidence to change intervals, operating practice or suppliers when a failure keeps returning.

See it on your own assets

A 30-minute demo, set up for a mining or heavy equipment operation.

An example of how this kind of organization runs on Asset Infinity.

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