

Stay on top of your equipment health by knowing the status, condition and location of your vehicles at all times.

Connecting to all on-board vehicle management systems, regardless of OEM, *iVolve Mine4D Maintenance* provides real-time equipment health data feeds. This data is displayed graphically via customisable dashboards at fleet and individual asset levels, with full data history available for both ad-hoc and scheduled reporting.

Maintenance allows for site to view and consume machine monitoring and condition monitoring data, all from the one database giving management the knowledge to make **proactive**, **intelligent decisions**.

In the event of site-specified alerts, Maintenance generates on-screen alerts within iControl, which provides true, real-time decision making capability.

Maintenance enables sites to improve machine availability while decreasing maintenance requirements and lost production costs associated with in-service failures.

Machine Monitoring & Condition Monitoring

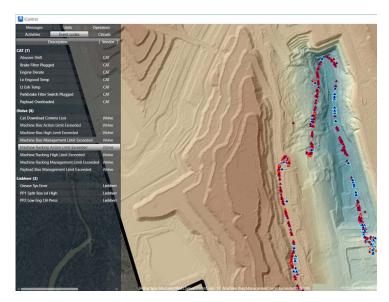
Mine4D Maintenance provides machine monitoring conditions including machine events, parameters, utilisation and SMU Hours.

3rd party systems, including tyres, cameras and weighing systems integrate seamlessly into the one iVolve database.

Beyond this, Maintenance also provides condition monitoring capabilities, with deeper analysis into the pressures, gauges and components of each machine.

Machine events and road conditions can be viewed in iControl in real-time, or historically, allowing for further condition monitoring investigation.

All of this data is displayed graphically via customisable dashboards at fleet and individual asset levels enabling proactive decisions for vehicle maintenance.



Road Conditions overlay on iControl.



Mine4D Prestart in-cab Display.

MINE4D PRESTART

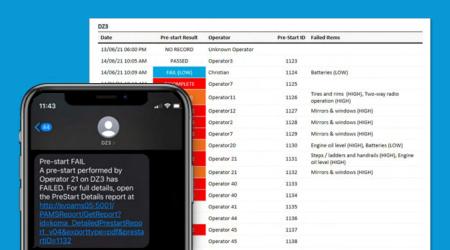
Easily track and manage pre-start and safety inspections. The *PreStart* module provides an interface that operators can use to record the results of their prestart checklists.

Prestart checklists provides a means for the operator assessments to be recorded and archived ensuring that verification checks are performed, and act as an accountability measure for operators to take responsibility for their machine.

- Gain total visibility over the vehicle inspection process with timely reporting.
- No need for manual data entry.
- Prompts guide users through inspection requirements.
- Streamlines issue management for all vehicles.
- Flexibility with simple customisation for your site.

PRESTART FEATURES

- SMS and email notifications to supervisor on failed pre-start check.
- Detailed PreStart report per operator per shift.
- Summary PreStart report per shift.
- Categorised list of check items.
- Operator can add additional comments on any failed item.



MAINTENANCE FEATURES

- OEM agnostic capture machine parameters regardless of brand.
- Track machine utilisation and task analysis.
- Empower operators with real-time data within the cab.
- Storage of all data for integration with other software packages.
- Clean & simple user interface designed for ease of use for the operator.
- · Record all events and alarms.
- Supports an extensive list of GNSS receiver drivers.
- View machine status on the iVolve Display.
- Transfer data over 802.11 Wi-Fi.
- · Record data on-board when out of range.
- Troubleshoot issues with the inbuilt diagnostics panel.
- Access data easily via the powerful iControl desktop application.



System Status on in-cab Display

VALUE

EQUIPMENT HEALTH & ASSET MONITORING

- Quickly adjust to changes in equipment status to maintain optimal circuit efficiency.
- machine monitoring and condition monitoring for indepth analysis of the relationship between pressures, gauges and monitors.
- Maintenance data is viewable back in the office/ headquarters via dashboards, reports, and the powerful iControl interface.
- Strong defence against claims of machine abuse for warranty pushback.

MINIMISE UNSCHEDULED DOWNTIME

- Identify equipment problems before failures arise.
- Extend component life.
- Reduce unexpected interruptions.
- Minimise replacement/repair costs with real-time alerts.
- Streamline service and maintenance management and timetabling.



VIFW

iVolve's user tools provide simple yet powerful capability to interact with Mine4D, from within the operator cab, on a supervisor tablet, the dispatch office control room screens, or corporate office PCs.

iControl is the iVolve map based visualisation tool displaying your fleets' realtime data for a complete overview of your fleet and assets.

iReport is the iVolve reporting tool, providing both real-time and historical production and maintenance data.

iVolve Mine4D MAINTENANCE

do more. save time. work safe. simple.



Established in 1995, iVolve is an Australian industrial technology company delivering real-time machine intelligence to the resources sector, enabling our clients to make educated quick decisions to increase productivity, reduce costs, and minimise risk

iVolve Mine4D records and presents crucial operational data for the monitoring and management of a mining fleet. This provides all levels of the mining operation with the knowledge to back smart decisions.

The experienced R&D team at iVolve are passionate about research and keeping the company at the forefront of innovative, intelligent, yet simple solutions for our customers. As a result, the company has built a solid reputation over the years as a leader in its field.

If there is an opportunity for productivity improvement within your operations, iVolve is here to help.

For further information, contact info@ivolve.com or head to www.ivolve.com.

