Rithmik SOLUTIONS

ASSET HEALTH ANALYZER

(AHA) DATASHEET

Cut through the noise

and get key insights that matter.

The Asset Health Analyzer (AHA) is our base AI-driven predictive maintenance solution. Designed to increase equipment availability and lower maintenance costs

To learn more, Drop us a line.

www.rithmik.com
info@rithmik.com

Rithmik SOLUTIONS

Rithmik AHA™ *Delivers results:*

Rithmik Solutions increases mobile equipment uptime. Our AI-powered analytics optimize maintenance, reduce greenhouse gas emissions and extend equipment life.

Rithmik Asset Health Analyzer (AHA™) applies a multi-tiered machine learning approach to data from pre-existing sensors and available contextual information. It's easy to deploy and resilient enough for the world's most extreme environments.

AHA requires no manual threshold-setting and produces valuable, site-specific insights in real time with just weeks of data. Get earlier, more accurate alarms along with intelligence about past and future failures — all delivered via your choice of existing reporting tools or our intuitive dashboards.

AHA provides:

- Early and new indicators of equipment issues
- Opportunities to improve maintenance planning
- Insights into problematic operator behaviours
- Opportunities to improve road conditions and mine design

The result?

- **Increased equipment availability and utilization**
- **lower maintenance costs**
- **reduced fuel burn**

Rithmik is different:

- Built **specifically for mobile** by a team with decades of experience in mines
- AI models tuned rapidly to site for **unparalleled accuracy** and **minimal false positives**
- **Vendor-independence** provides unbiased insights for any brand of equipment
- **Integration** with existing systems for ease of deployment and use

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With proven onsite results from 3 continents, Rithmik has revealed customer-validated opportunities for savings in maintenance, downtime and fuel of more than **US$350,000/year per 350+ ton haul truck.** A few examples of what we've uncovered:

- **Uncovered root cause of brake issues and powertrain failures ($930,000/site/year):** Avoid damage to final drives, diffs, brake groups, and suspension while improving safety and preventing downtime.
- **Rapid uncovering of fleet-wide inefficiencies ($600,000/site/year):** Rithmik rapidly revealed that temperature regulators failed on 76% of a Zambian copper mine's haul trucks. The issue had gone undetected for multiple years by both the equipment dealer and mine maintenance team. Fixing it will extend engine life and significantly reduce fuel burn.
- **Earlier alarm on cooling system issues ($390,000/site/year):** Almost 3 hours earlier than the OEM alarm, soon after the truck came out of maintenance; earlier indication allows for better planning and understanding of the issue along with less damage to the equipment from exposure to high temperatures.
- **Earlier alarm on electrical issues ($360,000/site/year):** In this case, there was no other indication until a CAT alarm 7 days later. Rithmik highlighted the extent of the issue with 12 occurrences, provided deeper context to reveal the root cause, and indicated the earliest symptoms to provide ample time to address during planned maintenance before they trigger unplanned downtime.
- **Impact of overloads and other non-ideal operator behaviours ($800,000/site/year)**
- **Bad sensor identification:** Often missed with threshold-based approaches, finding bad sensors provides opportunities for scheduling fixes during planned maintenance. It also leads to less time troubleshooting and better-quality data.

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