



TECHENOMICS
INTERNATIONAL

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Press Release

Artificial Intelligence has key role in Techenomics total fluid management solutions

‘Supporting Engineering Excellence, One Sample at a Time’

Integrating Artificial Intelligence (AI) into its total fluid management solutions will enable Techenomics International, ‘Your Partner in Lubrication Reliability’, to enhance its predictive maintenance capabilities, reduce equipment downtime and ultimately provide more valuable insights to clients.

This, in turn, will lead to improved operational efficiency and cost savings for the benefit of clients, according to Techenomics CEO Chris Adsett, no matter where they are located or in what field they operate in – mining, transport, industry, agriculture, marine, in fact any field in which lubricants are used to keep operations working effectively, efficiently and productively.



CHRIS ADSETT
CEO OF TECHENOMICS



AI will be used by Techenomics in the following ways:

Predictive analytics:

By analysing historical sample data alongside make and model details, AI algorithms can identify patterns and correlations that indicate wear and tear.

Machine learning models can be trained to predict future equipment failures based on these patterns, allowing for proactive maintenance recommendations.

Anomaly detection:

AI can be used to detect anomalies in oil and fuel samples that deviate from normal patterns. Advanced algorithms can flag unusual results that may indicate impending problems, helping clients address issues before they escalate.

Visualisations and reporting:

AI can assist in creating advanced visualisations that make complex data easier to understand for clients. This can enhance reporting capabilities and allow clients to quickly grasp the condition of their equipment.

Real-time monitoring:

Integrating AI with IoT sensors on vehicles can provide real-time monitoring of oil conditions and other parameters. This enables immediate analysis and alerts clients to potential issues before they lead to significant damage and is being used on drilling equipment in Indonesia.

Continuous learning:

Implementing machine learning models that continuously learn from new data can improve prediction accuracy over time.

As more samples are analysed, the system can refine its algorithms based on real-world outcomes.

“At Techenomics, we will be using AI in several impactful ways to enhance our oil and fuel analysis services and improve predictions related to engine and gearbox wear,” Adsett said.

“AI is an extremely valuable tool for our Blue Oceans cloud-based maintenance software, enabling us to deliver accurate and timely data to our clients.”

He added, in this way Techenomics is able to ‘Support Engineering Excellence, One Sample at a Time’.

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