

NewsDesk Release

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Techenomics Blue Oceans Condition Monitoring Software

Condition monitoring is a way in which the condition of equipment can be determined, as well as any potential failures, before they occur. This is determined using advanced technologies in [condition monitoring software](#) such as oil analysis, infrared thermography, motor current analysis and vibration analysis. It is mainly used for the maintenance of heavy machinery in mining companies.

[Condition monitoring software](#) is used in predictive maintenance to prevent and reduce maintenance costs, as well as extending the overall life of equipment, therefore saving the company money long term. This is achieved by determining significant changes in which would indicate that a failure is slowly developing. Detecting, determining and correcting deterioration at an early stage is usually much more cost effective than fixing it after the failure has occurred. It reduces the amount of downtime required for maintenance of machinery and increases the amount of time that a piece of machinery can be in operation.

Both the past and present oil monitoring results can be tracked and compared using condition monitoring software to gain an overall picture of the rate of wear and deterioration on a specific piece of machinery. This can be used to identify trends and correctional methods can be put in place to counteract uneven wear.

The use of condition monitoring software can improve equipment reliability, minimize the downtime due to maintenance of specific machinery and maximise component life reducing the need for replacement.

Techenomics have developed a condition monitoring software package called Blue Oceans. It is a fully integrated condition monitoring and oil analysis software package used to monitor the condition of machinery. The software was developed by highly trained and experienced technicians, with a background in equipment maintenance and oil analysis. These technicians record oil analysis results, lubricant and fuel usage, monitor the wear on magnetic plugs and trays and evaluate wear and general condition of machinery. Technicians review the results of each sample and provide recommendations of work that is required.

All data collected of condition monitoring by Techenomics is stored in a Blue Oceans database and can be posted or directly emailed to the company in any of the following formats: csv, txt or xls. Each Blue Oceans can also import clients' historical data.

Condition monitoring using Blue Oceans is an efficient and cost effective way in which to identify and conduct machinery maintenance for mining companies.

For further information please visit the Techenomics web site (www.techenomics.net) or contact Jason Davis on 02 65712699 or jason.davis@techenomics.com



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