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Press Release

Unique NanoLub products optimise mining operations

Techenomics appointed global mining industry distributors for NIS

Techenomics is now exclusive worldwide distributor to the mining industry for the unique NanoLub tungsten disulphide particles from Nanotech Industrial Solutions Inc (NIS).

These Inorganic Fullerene-like tungsten disulphide (IFWS2) nano-particles have been proven to increase oil life, lower fuel consumption and cut emissions by reducing friction between moving metal parts.

As exclusive mining industry distributor of this product, Techenomics will demonstrate to the industry how IFWS2 can optimise all mining operations that involve operating engines and equipment.

While this has been effectively demonstrated for all transport operations in ongoing independent testing, Techenomics also has proof that it works in milling and processing situations.

Techenomics CEO Chris Adsett says this is an important point to stress as the industry strives to optimise operations at all levels on all mine sites around the world.

“We have used the NIS IFWS2 nano-particles at a milling operation in NSW resulting in a reduction in power draw and an energy saving of 3.5%.

“There was a decrease in gearbox operating temperature of 10 degrees centigrade at the mill and a 5% increase in throughput.

“Another impressive benefit for the operator was that oil life was increased by 300% resulting in less downtime and savings in oil consumption.”

Chris Adsett said there was no reason why similar results could not be achieved at milling or processing operations at mine sites.

NanoLub IFWS2 combined advanced anti-friction and anti-wear functionalities, he said, which resulted in continuous surface reconditioning.

“These revolutionary submicron spherical-sized particles form into nano-sized onion-like ball bearings. When exfoliated in working conditions, they penetrate into asperities of the metal within engines, gear boxes and final drives.

“This process forms a protective coating on the metal that has the lowest coefficient of friction known of for metal coatings of .003.”



Chris Adsett, CEO of
Techenomics International





IFWS2 technology is completely different and more efficient than other additives, which are based on molybdenum or graphite.

“These are platelet technologies while IFWS2 is spherical, resulting in greater reduction of friction between moving metals parts,” Chris Adsett says.

“When IFWS2 is used in engines, tolerances are tightened and blow-by is reduced, which in turn reduces the energy required to operate the engine.

“The reduction of blow-by helps reduce contaminants that normally would be introduced into oil and which shorten oil life.”



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We will test your oil with an appropriate WS2 additive to provide you with the relevant information to reduce your fuel consumption and lower your engine wear! Click here for more...

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