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Press Release

## Lubricant cleanliness enhanced by adding IFWS2 particles

### ***Unique NanoLub products add value to Techenomics services***

Using Inorganic Fullerene-like Tungsten Disulphide (IFWS2) nano-particles from NanoLub keeps oil and lubricants cleaner for longer, thus adding value to the expert fluid management services provided by Techenomics.

“Our services are based on analysing oil and lubricant samples and interpreting the results in order to provide customers with solutions as to why their equipment’s lifeblood is not as clean as it should be,” Chris Adsett, Techenomics CEO, says.



Chris Adsett, CEO of  
Techenomics International

“Cleanliness is all important because dirty oil impacts upon the performance of engines and equipment, reducing productivity ... and we are in the business of solving dirt issues.”

He says one of the primary benefits of adding IFWS2 nano-particles to lubricants is to enhance cleanliness. Techenomics distributes the NanoLub products throughout its network and is also global distributor to the mining industry for the unique tungsten disulphide particles.

Unlike many other additives, which are platelet technologies based on molybdenum or graphite, the submicron spherical-sized tungsten disulphide particles form into nano-sized onion-like ball bearings.

When exfoliated in working conditions, the spherical IFWS2 particles penetrate asperities of the metal within engines, gear boxes and final drives, resulting in reduced friction between moving metal parts.



Chris Adsett says the process forms a protective coating on the metal. “IFWS2 has the lowest coefficient of friction known of for metal coatings of .003.”

He says the NanoLub IFWS2 technology developed by Nanotech Industrial Solutions Inc (NIS) is completely different and much more efficient than other additives.

“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 reduces contaminants that normally would be introduced into your oil and which shorten oil life.

“Cleanliness is just one oil improvement feature,” he says. “Other benefits from the lower operating temperatures are improved oil life, better fuel consumption, less maintenance and fewer harmful emissions.

“Gearboxes and final drives also benefit greatly through the extreme pressure anti-wear properties in NanoLub.

“NanoLub IFWS2 combines advanced anti-friction and anti-wear functionalities, which introduces the concept of continuous surface reconditioning.”

These benefits are being demonstrated by Techenomics in independent laboratory tests as well as in unofficial trials in working situations.



## SOLVE YOUR LUBRICATION PROBLEMS

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...

Tests and trials continually provide proof that the technology really works, Chris Adsett says, “improving the effectiveness of oil, lowering fuel consumption, reducing friction and operating temperatures, and cutting maintenance downtime and costs”.

He says the IFWS2 product enhances the company’s capacity to provide clients with maximum value from their lubricants.

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