

15 February 2019  
Press Release

## Engineering a stronger tomorrow with unique IFWS<sub>2</sub> particles

### ***Adding value to Techenomics' fluid management with NIS products***

Techenomics distributes the submicron spherical particles of Inorganic Fullerene-like Tungsten Disulphide (IF-WS<sub>2</sub>), which have been developed by Nanotech Industrial Solutions (NIS).

These particles provide excellent extreme pressure, anti-wear, anti-friction and shock absorbing properties to various lubricants.

All of these properties provide higher efficiency, and a reduction of downtime, operational temperature and overall cost of ownership, which are critical for heavy duty applications, such as mining.

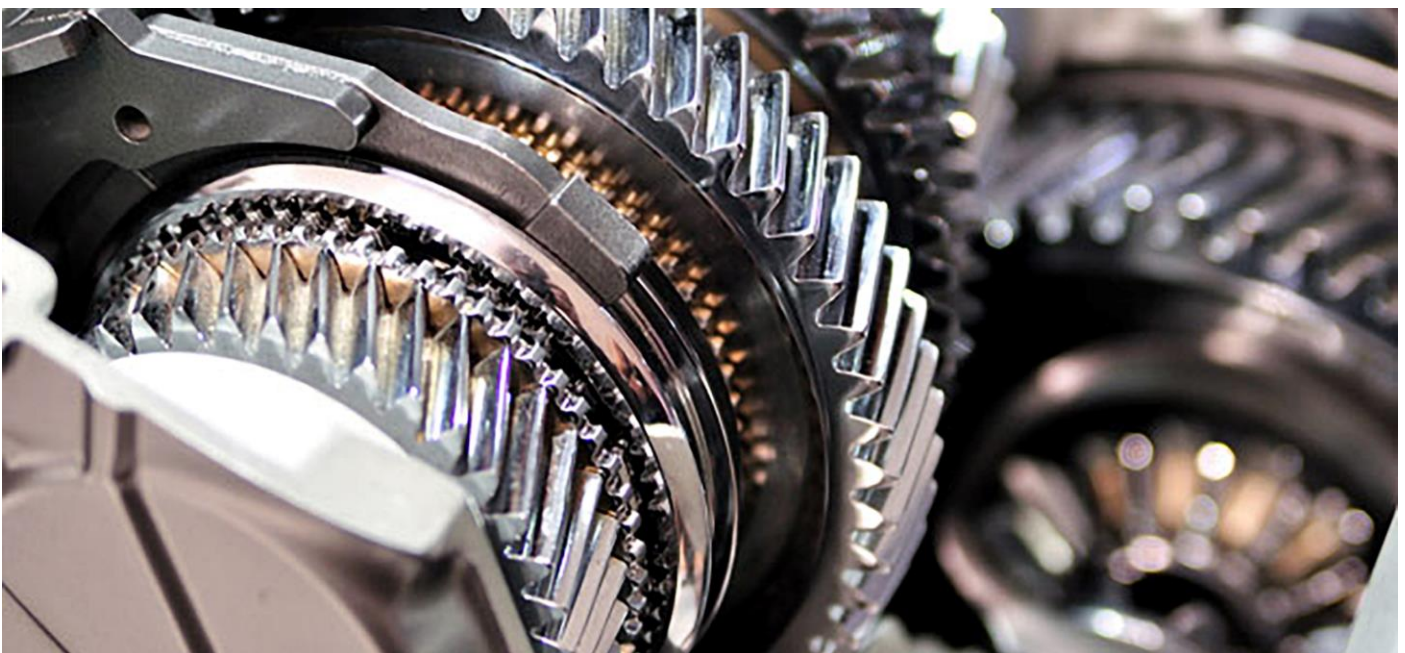


Chris Adsett, CEO of  
Techenomics International

As such, the NIS IF-WS<sub>2</sub> products add value to the services that Techenomics provides, including to the mining industry.

### **Uniqueness!**

Unlike many other lubricants, IFWS<sub>2</sub> particles interact with the surfaces at the points of contact in a unique combination of mechanisms. They don't react with the surface, like most conventional EP or AW additives, and don't interact with the sliding surfaces in the same way as legacy solid lubricants, like graphite or molybdenum disulphide.



However, the multiple mechanisms of sliding, rotation, exfoliation and compression make IFWS<sub>2</sub> particles truly unique and important to the formulation of a new generation of high performance lubricants for various applications.

### **Don't buckle under pressure!**

- Significant reduction in wear and friction;
- Extended application life;
- Optimised performance;
- Fewer service requirements;
- Reduced energy consumption; and
- Improved operation costs.

Techenomics International has recently been appointed as the exclusive mining agent for NIS IFWS<sub>2</sub> worldwide – an ideal match for a global service provider with decades of experience in the mining, oil & gas, marine, rail and power generation industries.

Techenomics has a wide range of services and products that include fluid analysis, preventive analysis, condition monitoring services and lubricants, with subsidiaries around the globe.

Techenomics has been involved in introducing IFWS<sub>2</sub> to the global market and in running many tests and trials to demonstrate the benefits of IFWS<sub>2</sub>, which include energy saving, oil life extension, lower fuel consumption and emission suppression.



## **SOLVE YOUR LUBRICATION PROBLEMS**

We will test your oil with an appropriate WS<sub>2</sub> additive to provide you with the relevant information to reduce your fuel consumption and lower your engine wear! Click here for more...

Trials have been set up across the globe ranging from industrial to personal use in order to form accurate case studies which in the future will help customers to understand the long-term benefits of using IFWS<sub>2</sub> for their assets.

The wide range of WS<sub>2</sub> products accommodates numerous needs for industrial and mining activities, including both fixed and mobile plant.

For more information about Techenomics International visit [www.techenomics.net](http://www.techenomics.net) or contact Chris Adsett, [c.adsett@techenomics.com](mailto:c.adsett@techenomics.com); in Indonesia Freddy, [freddy@techenomics.com](mailto:freddy@techenomics.com); in South East Asia Siti, [siti@techenomics.com](mailto:siti@techenomics.com), in Mongolia Tume, [tume@techenomics.com](mailto:tume@techenomics.com), in Australia Michael Noncic, [michael@techenomics.com](mailto:michael@techenomics.com), or in Africa Chris Adsett, [c.adsett@techenomics.com](mailto:c.adsett@techenomics.com).  
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