

29th January 2018

Press Release

## Improved combustion from WS2 additives also cuts emissions

The use of tungsten disulphide (WS2) additives in oil not only lowers fuel consumption by improving combustion but also leads to a reduction in exhaust emissions, according to fluid management provider Techenomics.

Emissions are created by inefficient combustion and ongoing Techenomics testing of the WS2 nano additives in oils has demonstrated improved combustion through a reduction of friction.

This in turn reduces wear of engine components and results in improved fuel consumption as the engine is working much more efficiently.

An indirect benefit of this process, says Techenomics' CEO Chris Adsett, is a reduction in emissions.

Techenomics is distributing the unique WS2 additives throughout its network and says the benefits far outweigh the minimal extra cost.



Chris Adsett, CEO of  
Techenomics International



"This has been confirmed in our independent tests which have so far demonstrated an improvement of up to 259% in time to failure when using WS2 in engine oils over other so-called nano additives that do not use tungsten," Chris Adsett says.

A recent unofficial trial in a light utility used for work purposes also demonstrated the indirect benefits. The ute was smoking 'like a chimney', the owner said, and was filling his workshop with smoke, even after a full service.

However, the emissions stopped after adding 200 ml of WS2 to the oil, he said, and the ute was now running 'unbelievably well'.

Chris Adsett says the benefit of lower fuel consumption was also demonstrated in a recent unofficial road trial.

A businessman added WS2 to the engine oil of an LPG-powered 4-litre, 6-cylinder Ford used in an extensive amount of motoring on rural roads.

Before using WS2 his fuel economy was 17.4 litres per 100 kilometres and during the trial, this dropped to 15.2 litres, representing a 14.5% saving.



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Chris Adsett says all indications point to being able to achieve similar results in long distance trucking operations, which should make use of WS2 additives a 'no-brainer'.

"WS2 is one of the most lubricous materials known to science and has a coefficient of friction of just 0.03. Its dry lubricity is unmatched by any other substance.

"WS2 offers excellent lubrication under extreme conditions of load and temperature, and has been proven to be effective from minus 273 degrees Centigrade up to 650 degrees. It offers excellent thermal stability and oxidation resistance at higher temperatures," he adds.

Techenomics' laboratory testing has also demonstrated up to 74% and 43% improvements in time to failure respectively when used in gear and transmission oils.

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