



ZEPHYR

Robust, Repeatable Measurement

Routine condition monitoring helps to prevent equipment failure.

FCS measures two oil condition parameters: AC conductivity (reported in nS/m) and permittivity, which together provide a more detailed analysis of contaminant ingress and/or oil changes/aging.

It is suitable whenever it is a requirement to detect sudden changes in the dielectric properties of the fluid resulting from contamination ingress from external sources.

On diesel engines, the FCS may be used to monitor the common problems of fuel contamination, degradation of the oil and ingress of water from the cooling system.

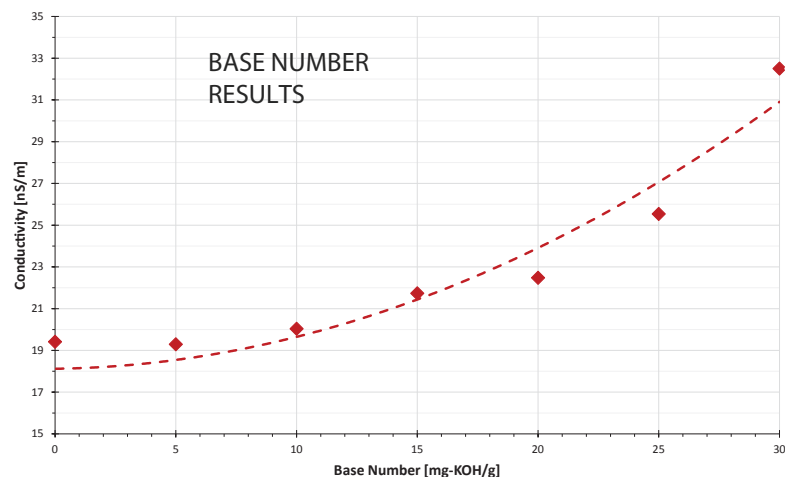
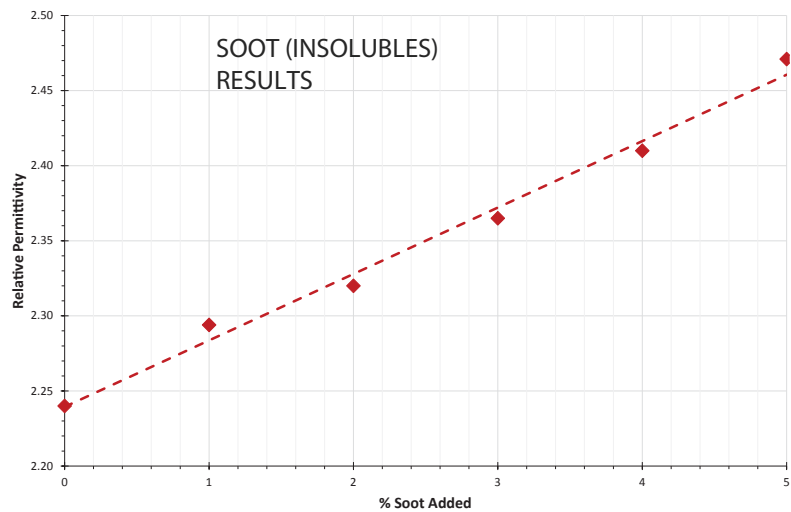
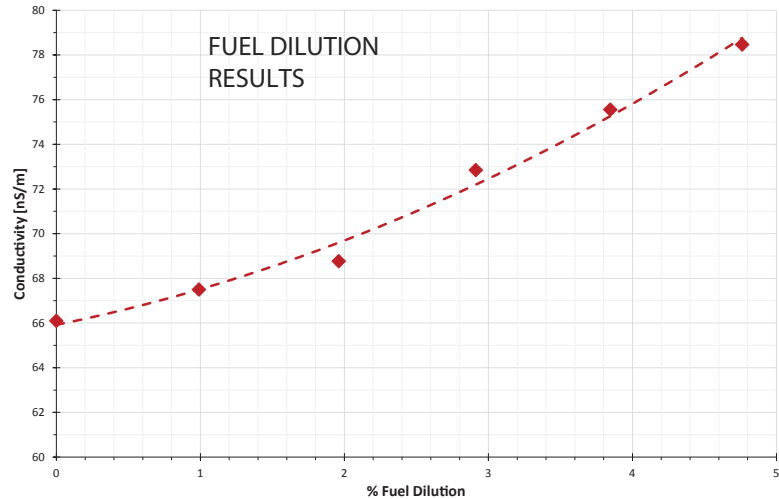
By tracking changes in oil electrical conductivity, FCS can detect fuel dilution - a common problem in 4-stroke diesel engines.

FCS also closely correlates to soot (insolubles) ingress by tracking changes in relative permittivity.

FLUID CONDITION SENSOR ACCURACY

AC Conductivity: +/- 5%
Permittivity: +/- 5%
Moisture: +/- 2%
Temperature: +/- 0.5 °C
Pressure: +/- 0.2 Bar (for operation <500m above sea level)

Results shown on this page contain lab generated data



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