



Smart Maintenance

Advanced monitoring & prevention!

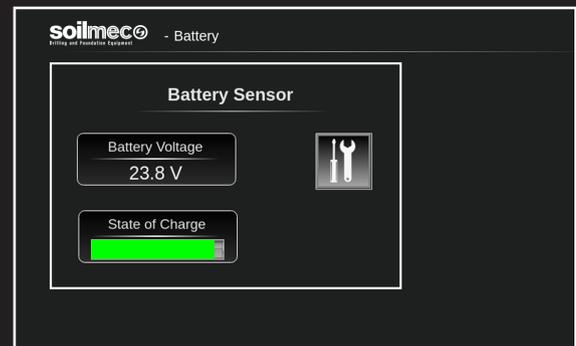
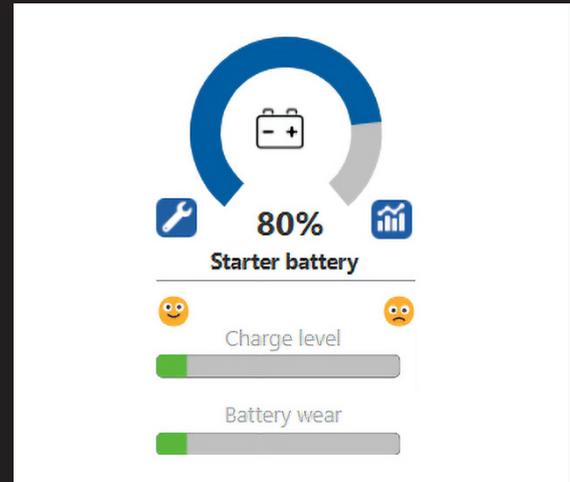
Intelligent Battery Sensor

Energy management at the highest level: The intelligent battery sensors do just that. They measure battery variables such as current, voltage, and temperature.

The measured values provide information on the charge level, aging of the battery, as well as the expected starting capability of the battery. The intelligent battery sensors therefore permanently monitor key parameters and provide early warning of a weak or defective battery.

Advantages

- Extend the battery life by continuously monitoring the battery's health and the charging circuit, allowing timely maintenance.
- Allow preventive action for replacing the battery when it's old or defective, avoiding so an unexpected engine startup problem.



Hydraulic Oil Condition Sensor

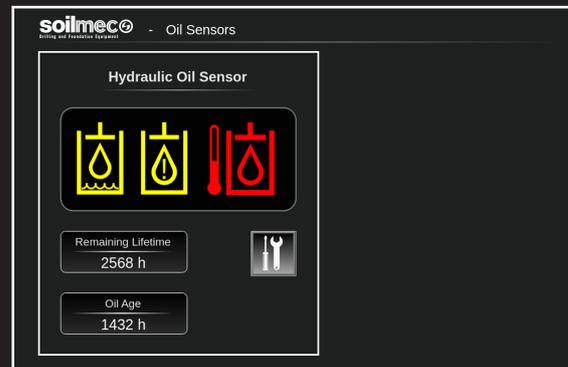
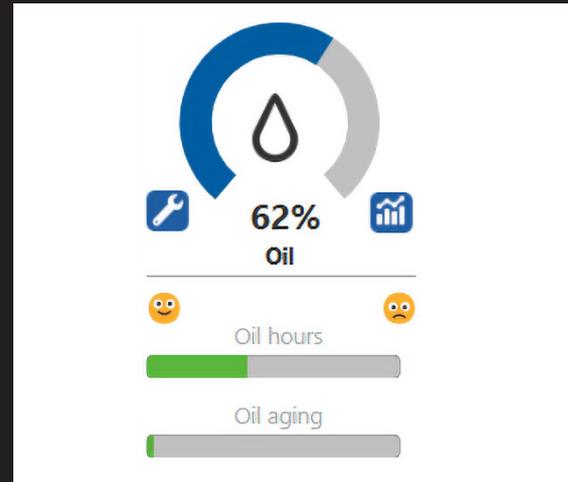
The hydraulic oil is comparable to blood of humans, by monitoring it with this advanced sensor it's possible to do a continuous analysis and read the chemical parameters, allowing to detect deviation from the normal values.

Many parameters are read like temperature, humidity, conductivity, oxidation, contamination, oil refreshment or mixing with wrong oil type, and thus it can calculate the remaining useful life of the oil.

The integration with the DMS provides very easy understanding of the oil condition.

Advantages

- Detect unexpected deviation of the oil parameter or contamination, giving the possibility to intervent and replace the oil before the condition becomes critical for the hydraulic system.
- Reduce oil replacements, surpassing the current fixed value of 2000 hours.
- Less waste and enviromental benefits.
- Reduce total maintenance costs.



Invest in
Smart Maintenance solutions,
with Hydraulic Oil Condition
and Intelligent Battery sensors
to optimize your machine uptime
and reduce maintenance costs

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