

Customized for your fleet

Oil and engine degradation varies depending on the application. Optimal system results are obtained when the sensor's algorithms are tuned to the specific engine family, oil, and fleet type. This tuning allows the sensor to provide truly actionable information.

Even rigorous (and expensive) external lab analyses of oil samples require experts with 'trained eyes' who understand the specific application to interpret the results. This would be accompanied by a baselining period where maintenance personnel learn what is normal and what is abnormal for their application. By customizing the sensor for the application, this 'expert training' can essentially be built-in. As the system gives its results continuously, the user can act quickly on the information, rather than waiting for the lab results.

On-line fluid sensing technologies to lower fleet maintenance cost



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For More Information:

Call Flowtonics to discuss your fleet usage scenario, maintenance strategy drivers and technical parameters so we can optimize the system to your needs.



Contact us at:

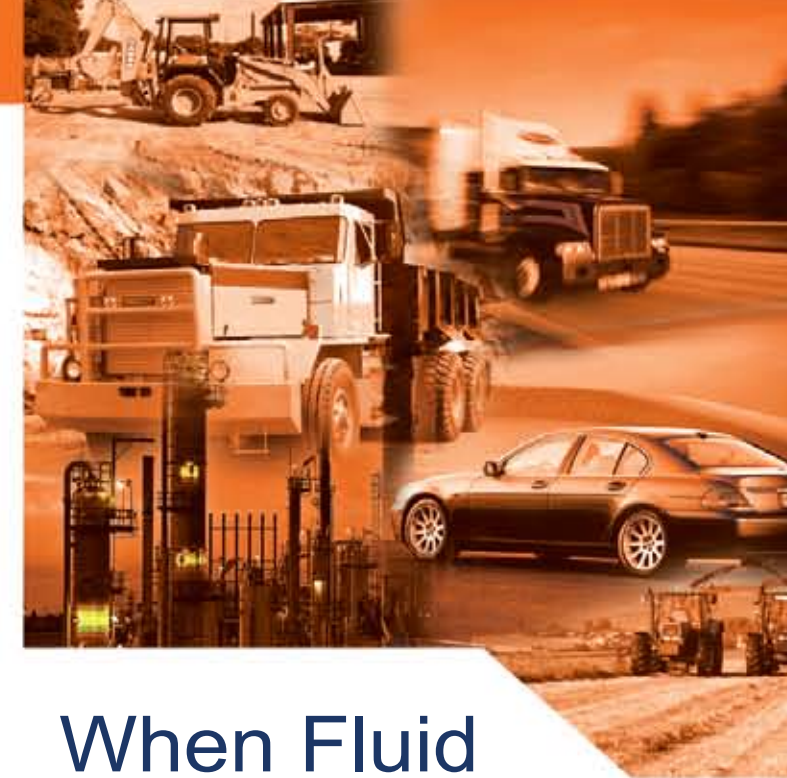
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When Fluid Quality Matters

Flowtonics®
Fluid Quality Sensor

Sensing technology that is designed for your maintenance management needs



The Flowtonics® Oil Sensor

The Flowtonics Oil Sensor is a sensing system that combines several oil quality measurement technologies. The backbone technology is a patented technique that measures changes in electrochemical properties of the oil caused by contamination and oil breakdown.

The measurements are “fused” to track oil contamination and estimate fluid quality. This is done through a combination of advanced analysis and classification algorithms built into the sensor. These algorithms translate the raw measurement data into meaningful, actionable results.



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Diagnostics

In diesel applications, the sensor has the ability to track several major contaminants including soot, fuel and water. Depending on the application, the sensor can be tuned to track other contaminants such as coolants. The relative levels of these contaminants point to specific engine problems. For example, high soot may arise from piston ring problems, whereas high coolant levels may be caused by leaks in the engine block. Being able to spot ‘trouble’ evolving in real time, and knowing where to look in the engine to fix the problem, enables higher and more responsive levels of maintenance management.

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Benefits Summary

- Extend oil change intervals – save on labor, oil, parts, filters and oil disposal.
- Reduce external oil sample analysis
- Reduce severity of engine problems by detecting abnormal usage problems early.
- Predict maintenance needs: Reduce overtime by optimizing the timing of maintenance crews; reduce need for vehicle redundancy

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Fleet Management

The most basic output the sensor provides is an overall oil health estimate. This allows managers to optimize timing of normal maintenance practices. Using the system output, one can base oil changes on the actual oil health and degradation rate, rather than on historical usage trends and manufacturers’ recommendations. For fleets already employing a Condition-Based Maintenance approach to oil change based on periodic lab analysis, the sensor reduces cost, hassle and inherent time delay of oil sampling.

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More importantly, the sensor can help identify emerging engine problems, as abnormal oil health is often closely related to engine health issues.



Receiving data from the Flowtonics Oil Sensor

Software for automated data collection can be installed on any Windows® based platform. Solutions include providing periodic downloads directly from the vehicle on the road to the users’ specific maintenance databases. This data collection and download can be available via wireless technologies such as cellular WAN – for example, using Azentek’s™ rugged mobile on-board computer and communications platform (www.azentek.com)

Flowtonics!