SENZIT AIR FILTER MONITOR

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Traditionally equipment owners or operators have three methods to determine when it is time to change their equipment's air filter: manual inspection, analog monitoring and digital monitoring. Each method is flawed, making it ineffective in real world applications. Issues contributing to this vary from reliance upon qualitative visual assessment, dependencies on user training/knowledge, lack of timely feedback, and reliance on isolated peak parameter thresholds. Senzit is the new smart filter monitor aimed at overcoming these obstacles.

Senzit targets diesel applications in dusty environments, where proper air filter performance is required for continuous operation. Through the measurement of a multitude of different elements, Senzit can provide the user information about the air filter to the palm of their hand.

One element that is continually measured is that of the pressure drop across the filter. The pressure drop as well as other proprietary data points are collected during equipment operation. Algorithms developed through machine learning then interpret the data points before turning them into valuable information that is relayed to the user via mobile app or web portal. This condition-based maintenance data modeling addresses the flaws in the reactionary maintenance data modeling addresses the flaws in the reactionary maintenance approach described above. The future performance insights and continuous improvement of preventive maintenance scheduling from the Senzit data modeling reduces operational disruptions and minimizes premature engine failure.