**PRESS RELEASE**

Real-time monitoring leads to improved asset health management

***26 April 2016:*** *Industrial operations can optimise oil drain and sampling intervals, improve asset health state awareness, more clearly identify contamination events, proactively detect the need for oil changes and top-ups, and verify proper lubrication system maintenance using the Trident QM 3100 real-time, in-line fluid quality monitoring device.*

The Trident QM 3100 is developed by Poseidon Systems and was officially introduced into the local market in early 2016 by wear control specialist Filter Focus. The online sensing device uses electrochemical impedance spectroscopy (EIS) technology to measure fluid properties and provide insight into fluid health. Filter Focus COO Craig FitzGerald says EIS technology measures a fluid’s impedance spectrum and tracks its health.

“The EIS method injects a signal into the fluid via one electrode and receives a response signal on a secondary electrode. The impedance spectrum provides multiple condition indicators which can be used to assess the lubricant’s additive package health, monitor breakdown and identify oil top-ups, contaminants and contamination events. It is ideally-suited for engine oils and gearboxes,” he explains.

The Trident QM 3100 can measure fluids ranging between temperatures of -40 oC to 150 oC, and is sealed according to IP67 specifications, with a maximum operating pressure of 10.3 bar. The device has no moving parts, is easy to install, and is compatible with CAN-J1939 and RS485-Modbus RTU communications platforms. “The QM 3100 provides users with the control to improve their health management practices by enabling informed maintenance decisions based in real-time information,” FitzGerald concludes.

USA-based Poseidon Systems develops and manufactures real-time condition monitoring solutions that provide users with reduced overhead and maintenance costs and improved asset reliability. Poseidon’s core expertise is in fluid diagnostics, particularly metallic wear debris monitoring and oil condition monitoring. Poseidon also supports the design and production of customer-specific sensing and monitoring solutions.

***Ends***

**Notes to the Editor**

To download hi-res images for this release, please visit [http://media.ngage.co.za](http://media.ngage.co.za/) and click the Filter Focus link to view the company’s press office.

**About Filter Focus**

Filter Focus SA (Pty) Ltd was formed in January 2002 with the aim of establishing the concept of combination filtration and eliminating contamination related wear and failures in heavy industrial equipment.

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