



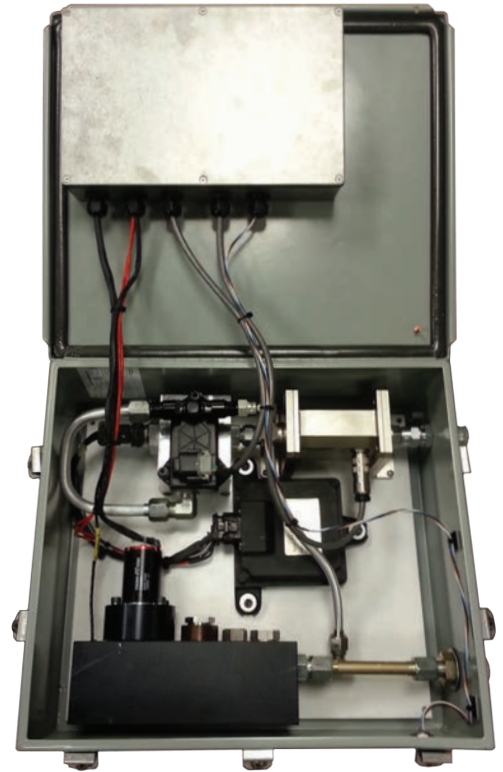
# Custom Monitoring Systems

## Multi-sensor Systems for **Advanced Fluid Quality** Monitoring

Poseidon Systems offers fluid condition monitoring systems that accommodates a suite of sensors for assessing the condition of a lubricant through real-time, online measurements. Several sensor options are available to allow for customization to your application. These include the following:

- Oil quality monitor
- Wear metal sensor
- Online rotational viscometer
- Water contamination monitor
- Flow meter

The sensors are plumbed and wired into a NEMA 4 enclosure with external interfaces provided for fluid connections, power, and communications. An optional embedded computer handles all sensor data acquisition, storage, and relaying.



### Features

- Complete online fluid monitoring solution
- Customizable to user application
- Easy-to-install self-contained kit
- Optional data logger and network interface

### Benefits

- Enable condition based fluid maintenance
- Identify equipment faults prior to failure
- Extend equipment and/or fluid service life
- In-depth fluid and system health insight

## Oil Condition Sensor

An inline sensor that provides real-time monitoring of oil quality via measurements and interpretation of the electrochemical properties of the fluid. The device allows for continuous insight to fluid condition, alerting operators to an array of fluid degradations including soot contamination, water contamination and additive depletion.

## Wear Debris Monitor

An online fluid sensing technology for the detection of metallic wear debris and particulates in oil. The device will detect, categorize (ferrous vs.nonferrous), and size metals within a machinery lubrication system. Poseidon's wear debris devices use best-in-class inductive coil technology providing sub-50µm detection sensitivity. Trending wear concentration levels provides early warning of system damage to allow for proactive maintenance action.

## Rotational Viscometer

An online rotational viscometer that can measure and report the viscosity of an in-service fluid. By monitoring viscosity trends, this device can provide early warning of fluid degradation and contaminations such as fuel dilution. When calibrated with a known fluid and defined operating temperature range, the sensor provides temperature compensated measurements of viscosity in Centipoise.

## Additional Sensor Modules

The system can support a wide variety of 3rd party RS485, RS232, and digital sensor inputs. Custom driver development may be required.