

OIL MONITORING SYSTEM

Detection of the oxidation /
aging conditions of the lubricant

Monitoring of solid and aqueous
contamination of the fluid



The oil monitoring system, designed by the OilSafe experience, is equipped with software that allows the continuous multi-parameter measurement of:

- Solid contamination (ISO 4406:1999, SAE AS 4059);
- Water contamination. Relative humidity;
- Fluid viscosity;
- Fluid permittivity (relative dielectric number);
- Electric conductivity;
- Metal wear contamination;
- Temperature

The unit is completed of software to be installed on PC for downloading, saving and analysing data.

Technical features

Compatibility with fluids	Mineral oil, synthetic oil, HFDU-type self-extinguishing, biodegradable oil
Operating pressure	Greater than 60 bar
Data communication	Communication via an Ethernet card Wi-Fi card (optional) Data acquisition via the Profinet system Analogue data acquisition via PLC management USB (optional)
Data management	Real time
Power supply	220 / 380 Volt – 50 Hz
Weight	≈ 40 Kg
Oil temperature	From -20°C to + 85°C
Viscosity	5 – 400 cSt
Type of analysis	Relative humidity 0-100% saturation Viscosity 8-400 cSt Contamination ISO 4406 / NAS 1638: 4-6-14 µm Electromagnetic metals 0-100% 4..20 mA output signals



The system is equipped with:

Laser particle counter, which detects in real-time the level of solid contamination of the fluid.

Relative humidity meter percentage.

Viscosity and polarity fluid variations analyser.

