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TD-107 Oil Content Monitor Fluorescence Detection Technology



The TD-107 Bilge Oil Content Monitor (OCM) is a non-contact, non-fouling, low maintenance oil-in-water monitor based on fluorescence detection technology. Fluorescence occurs when a molecule absorbs light energy of one specific wavelength and emits light energy of a longer wavelength. Fluorescent compounds each have a unique signature, and these compounds can be displayed as an actual concentration. Fluorescence makes the TD-107 resistant to interferences by turbidity or particles/sediments in the bilge which impact light scatter OCMs. If a substance does not fluoresce at specific wavelengths for the monitored oil molecule, it will not interfere as a 'false positive'.

The TD-107 Bilge Oil Content Monitor is IMO MEPC 107(49) certified and approved by the USCG for use as a bilge monitor / bilge alarm. It comes equipped with required data logger and can be customized to show system trends. The oil content monitor is designed to be fully automated and low maintenance, with no tubes, valves, filters, or pumps to replace. The system's one moving part has a life expectancy of greater than 5 years. Routine maintenance involves changing a lamp once a year.

- IMO MEPC 107(49) Certified as OCM / Bilge alarm
- USCG approved / ABS approved / NEMA 4X OCM
- Fluorescence unaffected by sediment / particles
- Non-contact, non-fouling sample flow cell
- Lab-quality accuracy up to parts per billion (ppb)

TD-107 sample cell is equipped with an injection port to accept calibration checkpoint solution and/or cleaning solution.

