

USING A QMI OIL MIST DETECTION SYSTEM AS AN ENGINE MONITORING INSTRUMENT

The QMI Oil Mist Detection System was designed to identify increased levels of oil mist in engine crank spaces, but this equipment acts as a condition monitoring system also.

Diesel engines each have their own specific set of individual crank case deflections and their own set of specific individual oil mist level readings. These readings can be checked on a regular basis to see if there are any differences between the “known normal” readings and any subsequent investigations when a problem becomes apparent.

Monitoring example 1

Last year, we were contacted by a superintendent who had recently taken charge of a vessel that was fitted with a QMI Oil Mist Detection System.

During a steady voyage, the Oil Mist Detection System had indicated a high oil mist reading in one of the crank spaces. The engine was stopped and investigations made but no main bearing damage or bearing temperature difference was identified.

The engine was restarted, and the Oil Mist reading increased again on the same unit.

Upon further investigation, the piston ring set was found to be badly damaged, and the high oil mist reading was caused by combustion gases reaching the crank case.

Monitoring example 2

We also have a report from a cruise vessel that was fitted with a QMI Oil Mist Detection System where the system identified a hole in a piston crown at a very early stage.

The QMI Oil Mist Detection system will also pick up steam created by a jacket water leak and camshaft bearing failure if that creates oil mist, so long as the cam shaft bearing galleries drain in to the main crank case.

Setting up a QMI Oil Mist Detection System as a monitor

- The QMI factory-calibrated detectors allow a fast, simple and easy to understand operation in comparison to equipment from other manufacturers.
- They require no complicated set up and on site calibration.
- The readings are displayed in an easy to understand, traffic light format.
- Oil mist levels can be set using a security key and cannot be tampered with after they are set and the key removed.

In these days of complex automation systems with engineering staff reacting to an alarm, surely a system that can be used intelligently to help identify an emerging problem and then identify the exact nature of the problem is something to be embraced?

If you are interested in find out more about QMI oil mist systems please [contact us](#).