

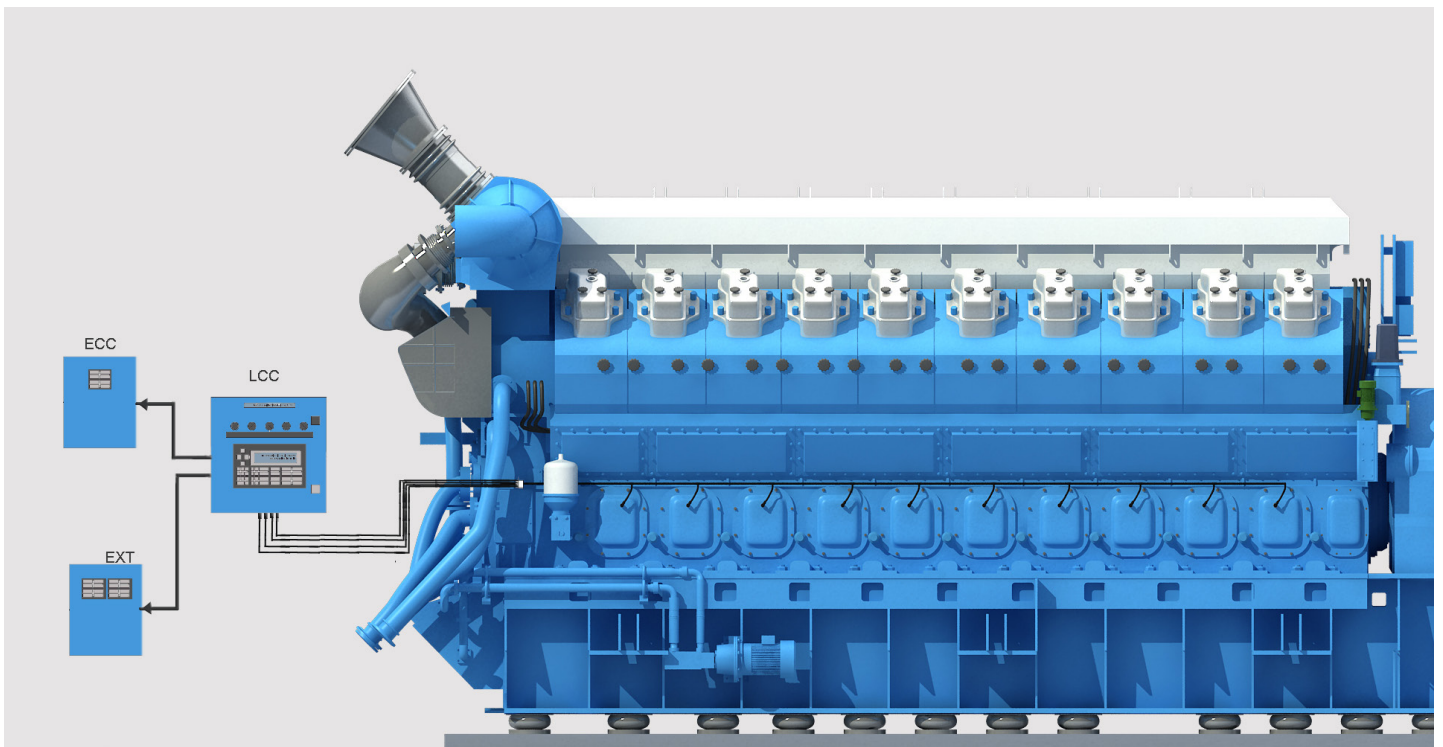


Rolls-Royce

# Splash oil monitoring system

Increased operational safety





**Your operational safety is our top priority**

**When every second counts...**

All Rolls-Royce Bergen engines are delivered with oil mist detectors for crankcase monitoring. This device is an important monitoring and warning system that alerts the operator before major crankcase failures occur. It has been installed on all of our engines for both marine and land power generation applications, vastly reducing the risks and consequences of such failures.

However, as a pre-warning system, conventional devices such as oil mist detectors are not designed to actively prevent failures. To fully prevent failures—and significantly enhance operational safety and reliability—an active monitoring system with the ability to quickly react and intervene is necessary. This system must be capable of detecting minute changes in the crankcase condition, and automatically activating the necessary mitigating steps within seconds to prevent significant damage from occurring.

We know how important 100% engine reliability is to your business. That's why we have developed the splash oil monitoring system, an effective and reliable solution that continuously measures crankcase lubricating splash oil temperatures. In the event of abnormal wear to the big end bearing occurs, circumstances can deteriorate rapidly and often with catastrophic impact. The splash oil monitoring system controls the splash oil coming directly from each big end bearing, and detects the slightest temperature deviations immediately and accurately.

When a temperature deviation exceeds the safety threshold, the monitoring system triggers a signal to alert the operator, and/or automatically shuts the engine down (depending on engine-specific settings). This way potentially costly damage to the big end bearings and engine crankcase can be prevented, enabling proper troubleshooting of the fault.

**Our answer to this challenge is the splash oil monitoring system**

**A small investment that makes a big difference**

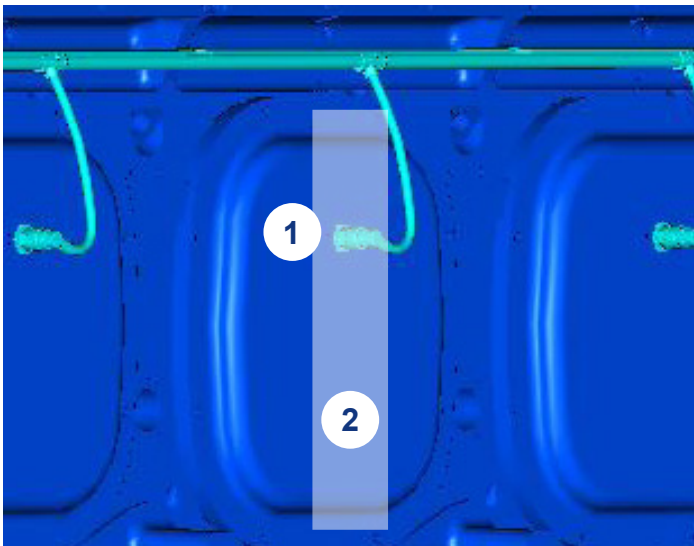
## Protect your engines today

The splash oil monitoring system is designed as a fully functional and integrated solution, which can be retrofitted to all existing Rolls-Royce Bergen engines. The elegant design makes it both affordable and quick to install, keeping downtime to a minimum. Installation is performed by a Rolls-Royce service engineer, and typically takes no more than a day. The system is based on a vigorously tested and robust design in order to ensure operational reliability from the moment installation is complete.

Invest in the splash oil monitoring system today and start enjoying the protection it gives to your most critical engine assets.

## Applicable installations

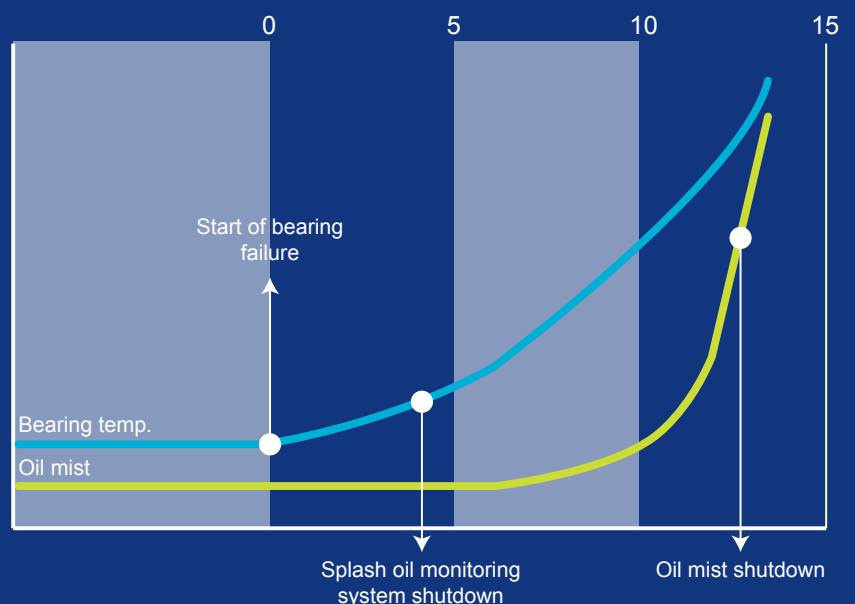
Engine type	Kit part number
BV20	444591
BV16	444592
BV12	444593
KV18	444568
KV16	444567
KV12	444565
KL9	444576
KL8	444574
KL6	444572



- 1 Temperature sensor fitted in the crank door
- 2 The centrifugal forces ensure the temperature sensor receives a continuous splash of lubricating oil originating from the big-end bearings

The oil mist detector reacts to oil mist that develops when the lubricating oil temperature gets high. As such, it is a very important device for the protection of all of the engine's moving parts.

The splash oil monitoring system reacts immediately to small deviations in average oil temperature, and is therefore an excellent device for specific bearing protection.





**Rolls-Royce**

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