

Lifetime of NOx sensor

ENGINE TYPE: Engine with SCR

1. Outline

The engine with SCR has NOx sensor to control and monitor the SCR system. We use sensor manufactured by Vitesco Technologies (formerly CONTINENTAL), which is designated by MAN Energy Solutions (MAN ES).

MAN ES has issued a License letter stating that the warranty period of this sensor is 2000 hours.

We issue this similar letter to clarify our position accordingly.

2. Lifetime and warranty period of NOx sensor

Since the expected life expectancy of the NOx sensor is 2000 hours, it should be taken as a consumable item and any failure after 2000 hours of sensors cannot be claimed against us and MAN ES by our guarantee. The usage time of this sensor is the same as the operating time of the main engine. We recommend keeping a stock of a certain number of spares on each vessel. As per unused sensors, it is recommended to be used within 2 years.

3. Replacement time

It is recommended to replace it within 2000 hours from the start of use. If the following phenomena occur, it is necessary to replace the sensor even if 2000 hours have not passed.

- I. When the alarm [Sensor Not Ready] occurs repeatedly
- II. When the alarm [NOx sensor deviating] occurs continuously
- III. When the measured value shown on MOP reaches 2000 ppm
- IV. When it is expected that the warranty period will expire while forthcoming sailing in the sea area using SCR

The reason for III above is that the maximum NOx measurement value displayed on the MOP is 2000ppm, so it is presumed that the correct value is not displayed.

4. Standard spare for NOx sensor

When a new vessel enters into service, 3 sets of this sensor will be provided as standard. After that, please place an order to our sales department as necessary.

REMARKS:

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- Corrected notation from ERCS-MOP to MOP. Because in case of Triton, ERCS-MOP is no longer used.
- Corrected due to company name change (Continental → Vitesco Technologies)
- Misleading has been corrected.