Oil temperature sensor | HELLA

General

Depending on the type of vehicle, oil temperature sensors may be installed in addition to oil pressure sensors in some vehicles.

The oil temperature sensor sends its information to a separate instrument or to the ECU for monitoring the oil temperature of the engine. In modern vehicles, oil temperature sensors are integrated into the oil level sensor.



Function

In the housing of the temperature sensor, there is a measuring resistor made of semiconductor material having a negative temperature coefficient (NTC). This measuring resistor has a high resistance at low temperatures, which decreases with increasing temperatures.

Possible causes of failure

· Contact failure on connector

· Internal short-circuits

· Damaged measuring element

Effects of failure

- Missing or incorrect information about the engine oil temperature

Important safety note

The following technical information and tips for practical use have been set up by HELLA in order to offer professional support to automotive workshops in their daily work. The information available here on this website is only to be used by appropriately trained specialist staff.

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