

This new version replaces all previous versions. Please replace SI-110801.

**Failure of turbocharger, weak performance, loud noises, heavy smoke development, oil leakages, increased bearing clearance**

**Loss of oil on turbocharger due to increased crankcase pressure**

According to BMW installation instructions, the oil separator inside the valve cover has to be replaced when exchanging the turbocharger. The parts may be clogged and lead to a malfunctioning or oil leakages on the turbocharger. As soon as the oil separator inside the valve cover is clogged, the pressure in the crankcase increases. The oil flowing out of the turbocharger is consequently obstructed and as a result oil is flowing out of the turbocharger through the housings. The turbochargers installed into these vehicles have a so called Variable Turbine Geometry (VTG). The oil flowing through the turbine housing also moistens the guide vanes of the VTG. As a result, the hot exhaust gases lead to the oil carbonising on the VTG guide vanes. This leads to a malfunctioning of the turbocharger. In most cases, this damage is only found when wrong boost pressures occur and the engine goes into fail-safe mode. This damage will occur again within a short amount of time if only the turbocharger is exchanged.

So please exchange the turbocharger as well as the oil separator.

**Warning:** The oil separator still has to be replaced with every 3rd oil change, otherwise a damage on the turbocharger may occur again!



**Vehicle Manufacturer:** BMW

**Vehicle:** E46 320d/ 320td/ 320Cd 110KW

**Engine Code:** M47N204D4

**Validity:**

This service information is valid for the exchange of the turbocharger with **BTS reference** T912345, **manufacturer part no.:** 750431-/ 717478 (GARRETT); **OE-no.:** 11657794144, 11657787628, 7787626F, 7787626G, 11657787627, 11657787626, 11657793093. .

**Please note:**

The oil separator is available with BTS reference D950088

**OE-references are only for means of comparison.**

**The content of this Service Information is non-binding and is only for informational purposes.**

**The manufacturer specifications have to be adhered to.**