

BMW Crankcase Breather Kit

febi no.: 34830
OE no.: 11 12 7 799 367
Fits: BMW 1 Series (E87) /
3 Series (E46, E90, E91) / 5 Series
(E60, E61) / X3 (E83)
Engine M47N/M47N2



Problem

The appearance of a faulty turbo.

Cause

The original breather has an oil separator filter element inside (to separate the crankcase gasses before the gas is fed back into the inlet for burning off). This element is prone to blocking from oil particles (see figure 1), resulting in excess crankcase pressure. This pressure then blows oil out past the turbo shaft seal, creating the impression of a failed turbo.

Solution

febi bilstein recommends replacing the old style crankcase breather kit with the most up to date vortex version (febi 34830), as these are less prone to blockages.

The air enters the crankcase breather and as it hits the top it condenses, causing the oil to trickle down the sides and out into the oil tray underneath (to be recirculated within the engine). The air is forced out of the top of the crankcase breather & recirculated into the inlet manifold (see figure 2).

Attention

This is a serviceable item therefore poor service schedules can still lead to the same issues and can ultimately cause engine and turbo damage if not replaced in time.



Figure 1: Blocked Filter Element



Figure 2: Vortex style Crankcase Breather