



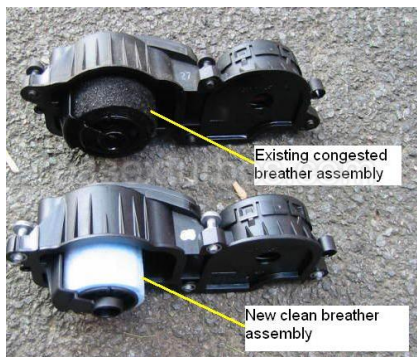
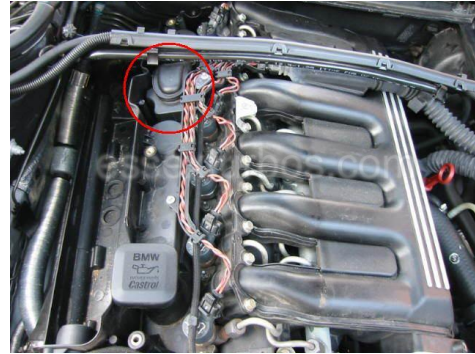
## BMW Engine Breather Assembly Issue

My turbo has failed on my Vehicle and it has a BMW Engine.

Most common reason for failure is a blocked breather (also referenced as an oil separator).

### Why?

One of the most common reasons for this is the breather assembly on top of the rocker cover is not changed regularly enough so gets congested/ blocked and causes the engine to breathe heavily.



This causes increased crank case pressure which creates an increase in pressure in the sump pushing the oil back up the oil return pipe. This effectively blocks the oil return pipe so the oil entering the turbo through the oil feed pipe cannot escape out the oil drain pipe. As it backs up it is forced out the turbo sideways past the piston rings (seals) into both the turbine housing (exhaust housing) and compressor housing (Air intake housing).

The leaking of oil into the exhaust housing can cause a smoking issue. Also over a period of time the leaking oil can also build up around the variable vanes assembly interfering with their operation.



As the build up of oil carbonises around the vanes they can become what people refer to as 'sticky' vanes which can cause them to operate erratically. The driver may experience issues with the turbo boosting and the vehicle smoking. In some cases the outcome is a destroyed turbo.