

### Whistling noises on turbocharger caused by frozen crankcase ventilation

#### Introduction:

More and more customers have been claiming whistling noises on this turbocharger. In most cases, a damaged compressor wheel is causing those noises caused by foreign bodies in the air inlet duct. Single bent up vanes on the compressor wheel indicate a soft foreign body, e.g. ice lumps in cold temperatures.

#### Please note:

When starting the cold engine, condensed water is mixed with oil vapor. This mixture is accumulating in the crankcase ventilation pipes. This accumulation starts lumping and freezing as soon as the engine is turned off. With the engine warming up again, the frozen water-oil-lumps are dissolving and sucked in by the compressor wheel. Those parts lead to the already mentioned soft foreign body damage on the compressor wheel.

#### Instructions:

Please check all pipes and components of the crankcase ventilation for damages or dirt and clean or fix them thoroughly.

We suggest to use the upgrade offered by the manufacturers to install a heatable crankcase ventilation.



**Vehicle Manufacturer:** Opel, Vauxhal, FIAT, Lancia

**Vehicle:** Corsa-D, Punto, Grande Punto, 500, Panda, Fiorino, Qubo, Ypsilon 1.3 D Multijet

**Engine code:** Z13DTJ, Z13DTH, 199 A2.000

**Validity:** This service information is valid for renewing the turbocharger with

**BTS reference:** T914893      **BTS-Service-Set-reference:** T981359

**OE-no.:** 0860028, 55202637, 5860028, 71724445, 71724447, 71724552, 71724553, 93191833

**Manufacturer part no.:** 54359880018

Please note: 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.