

Air filter maintenance is essential

Changing your Perkins air filters needs to be part of your maintenance regime. The air filter ensures that the air entering the combustion chamber is as clean as possible. The consequences of contaminated air include wear on the engine caused by foreign bodies and a less efficient combustion process. Perkins air filters are covered by our 12 month warranty.

The combustion process of all diesel engines relies on the pistons compressing air and fuel together at very high pressures and for the resultant heat to cause an explosion which sets in train the internal combustion sequence. The role of an air filter is to prevent any unwanted materials from entering the air supply and ensure that the air is clean.

An air filter is a relatively simple part for any engine. It costs very little and its replacement is straightforward, but you should not ignore it when it comes to regular maintenance. A faulty air filter could end up costing you many times its value should yours fail or prove to be inadequate.

Among the potential contaminants that can enter the engine are pollen, dirt, soot and dust. They may seem very minor, but under pressure their abrasive characteristics can be magnified. Air filters are generally made of cartridges containing a fine filter paper. The holes in it are large enough to allow the air to flow through it, but still small enough to catch any unwanted debris.

The key advantages of regular air filter maintenance include:

- Improved performance – clogged filters can have a significant, detrimental effect on how your engine runs, hampering performance and reducing power output leading to a lowering of operator work-rate
- Lower emissions – because the air-fuel mix is finely calibrated, failing to maintain your filter will cause an imbalance and less efficient fuel use, contributing to greater emissions
- Prolonged engine life – the air filter traps the dirt and other debris that can cause wear to your engine. The actual size of the debris might be quite small but even those as small as a grain of sand can significantly damage the engine over time, with the potential for damage to pistons, rings and cylinder linings

All these issues can be avoided by incorporating the replacement into your regular maintenance regime.

The frequency at which air filters need to be changed will vary according to the engine model you run, and more importantly the environmental working conditions. Dusty and dirty environments and enclosed spaces raise the importance of checking the filter condition regularly.

Warning; always switch the engine off first before changing the air filter. Diesel engines produce exceedingly powerful suction, and the air intake goes directly into the engine, meaning almost anything can fly or drop into the cold air collector box and be pulled into the engine.

BUY FILTERS TODAY DIRECT FROM OUR USA AND UK ONLINE SHOPS



Air filters keep your engine running efficiently

Fast facts

Perkins air filters:

- Ensure air entering the combustion chamber is clean
- Increase fuel efficiency and performance
- Need to be regularly maintained

Preventive maintenance

Regular maintenance is the best way of ensuring your engine lasts as long as possible. There are regular checks that you should carry out in line with the recommended schedules to do this.

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Product offering

Using official Perkins repair products can considerably enhance the performance of your engine and extend its life. These parts are available to order quickly and easily from your local distributor.

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Genuine experience

Supporting your engines is a truly global undertaking. Both our main warehouse site locations in the UK and Singapore, were deliberately chosen to give as wide a reach across the world as possible.

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