



HEAVY FACTS

Genuine Volvo Parts

Air Filters

Clean air is vital for the engine to reach optimal performance and long life cycles. The air filter keeps the intake air clean from all kinds of harmful particles that are present around the truck.

The Volvo air intake system has one main filter called the primary filter and a secondary filter commonly referred to as the safety filter as an option.

The active part of the air filter element is a pleated filter media. The ends of the media are embedded in foam Polyurethane (PUR) that creates an integrated clean side gasket, as well as a support for the element in the air cleaner housing. The increased force on the media that occurs as the filter collects dust is supported by a plastic centre tube.

The new Volvo genuine air filter has a service interval of upto 24 months. It is impossible to judge the efficiency or the pressure loss created by the dust load. The dust in the air filter plays a part for creating very high efficiency that is why, it is very important that the filter is not subject to any kind of cleaning whatsoever. Air filter element shall be serviced only at the time limit of 24 months or after indication from the service switch indication lamp from the truck's dashboard.



Technical description

The main task for a Volvo genuine air filter is to clean the engine intake air efficiently. This is vital for the engine durability, reliability and the time to the first major overhaul.

The filter media cleans the air with over 99.9% overall efficiency, as the filter collects dust and dirt, the efficiency goes upto 100%. It is the small amount of fine particles that pass the filter when it is new. That is the reason, why the overall efficiency is less than 100% but better than 99.9%. Cleaning the filter will ruin the efficiency, even if the media doesn't look damaged.

Volvo genuine air filter elements can have a variation in details like colour of the PUR ends. This is due to the different design and they are always tested to fulfil the Volvo requirements. Volvo genuine air filter elements have glue beads in order to ensure that the media pleats keep the distance (to maintain the dust capacity) even if the media gets damp (moist). The glue beads can have a variation between filters for different truck models.

FEATURES AND BENEFITS

- Special filter paper – high filtration, minimal engine wear, long engine life
- Large paper area – high dust capacity, no risk of early clogging, fewer filter changes
- Fixed filter paper – no leakage due to torn paper, less risk of engine failure, no repairs
- Flame resistant – the filter is fire resistant

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Technical description, contd.

Special filter paper

The paper in Volvo air filters gives a high degree of filtration upto 99.9%. No particles that might harm the engine can pass through the filter. This means minimal engine wear and long engine life.

Large paper area

It is the area of the filter paper that determines how much dust can be held without the filter clogging. A large area means fewer filter changes and lower running costs. The area of paper in a Volvo Air filter can be as much as 17.5 m².

Fixed filter paper

The paper is fixed to the outer case with strings of adhesive, this prevents the top of the paper folds from chafing due to vibration. Since the risk of leakage has been minimised, the result is increased safety and low risk of damage.

Flammable resistance

The filter is fire resistant.

Extensive testing

Due the range of extensive tests carried by the Volvo Group, the Volvo genuine air filter is superior as compared to competition. Some of the common tests conducted by Volvo are:

- Dust holding capacity
- Filtration efficiency
- Pressure loss
- Aging tests
- Flame resistance

The difference

The Volvo air filter seal

Volvo uses a PUR seal. The Volvo genuine air filter is perfectly fitted in the housings. A non-genuine filter does not fit well and can cause a leakage. Air and contaminants can thus bypass the filter and could lead to damage of the engine.

The Volvo filter paper

Volvo uses upto 17.5 m² of paper to provide the most effective filter. The Volvo filter provides atleast 99.9% filtration level, with a life of 24 months in normal operating conditions.

The robust design

Volvo uses glue lines on its filter paper to ensure a robust construction. The filter does not shake or rub itself to damage unlike the non-genuine filters.

Service

To guarantee high quality of repair and longer lifetime of the component, it is recommended to have the following skills, competence, tools and equipment.

- Access and ability to use recommended special tools to ensure high quality repair
- Ability to use Volvo Trucks service information in order to apply the correct and safe repair procedures
- Use of Volvo Trucks service information on all required parts needed for repair to plan and perform the repair efficiently

To secure the best possible service, uptime and efficiency, fit the genuine Volvo parts at a Volvo workshop by certified technicians.

Recommended additional parts

Fuel, oil filters and oils according to Volvo Service Program.

VOLVO

www.volvotrucksindia.com

Unit No. 502, 5th Floor, Southern Wing (Wing-B), Embassy Prime, Bagmane Techpark, C V Raman Nagar, Bengaluru - 560 093.

Phone: +91 80 6788 7000, Fax: +91 80 6788 7124

For more information contact: vtmarketing@volvo.in

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