



# VOLVO GENUINE AIR FILTERS

Air sucked into the air intake contains contaminant particles such as sand, dust, water, soot or pollen. As air passes through the air filter, it is cleaned according to the quality of the filter. To achieve good cleaning efficiency, a high degree of filtration efficiency is required. The optimum must be found between filtration efficiency and flow resistance.

The Air Mass Meter determines the mass of air available for combustion to take place in the engine. If particles from contaminated air are deposited here, this can lead to incorrect measurement and thus sub-optimal fuel combustion, a decline in performance and a decrease in fuel economy. Contaminant particles in air entering the cylinders may accumulate on the pistons, leading to damage which is expensive to rectify.

## **WHAT CAUSES THE DECLINE IN PERFORMANCE (THE CAR NO LONGER 'PULLING' PROPERLY)?**

The air filter cleans the air by retaining harmful particles. These particles are deposited over time during the service life of the filter, thus impeding air flow. This is referred to as increased differential pressure depending on contamination and/or time. The resulting lack of air leads to a noticeable decline in the engine's performance.

## **HOW CAN CONSISTENTLY HIGH PERFORMANCE BE MAINTAINED?**

Replacing the air filter regularly ensures that the car's engine 'breathes' clean air and keeps the differential pressure at a low level. It is therefore important to check the air filter at the specified service intervals.



## SELLING POINTS FOR ENGINE AIR FILTERS

Volvo Genuine air filter:

### **1. OFFER ALMOST 100% FILTRATION EFFICIENCY THROUGH THE ENTIRE SERVICE LIFE AND PROTECT THE ENGINE/MACHINERY AGAINST PREMATURE WEAR**

High filtration efficiency ensures that minute particles only a few thousandths of a millimetre in size are retained. Dust holding capacity and functional reliability is maintained throughout the service interval.

### **2. REDUCE THE FUEL CONSUMPTION THROUGH OPTIMISED AIR SUPPLY TO THE AIR FLOW METER**

Economical combustion and optimum performance are achieved through a correctly balanced air/fuel mixture. When the filter is changed at the right time, fuel consumption can be reduced.

### **3. ENSURE OPTIMUM COMBUSTION AND LOWER HARMFUL EMISSION LEVELS**

Optimum supply of air to the engine provides optimum combustion, and consequently lower harmful emission levels (complying with specified emissions limits).