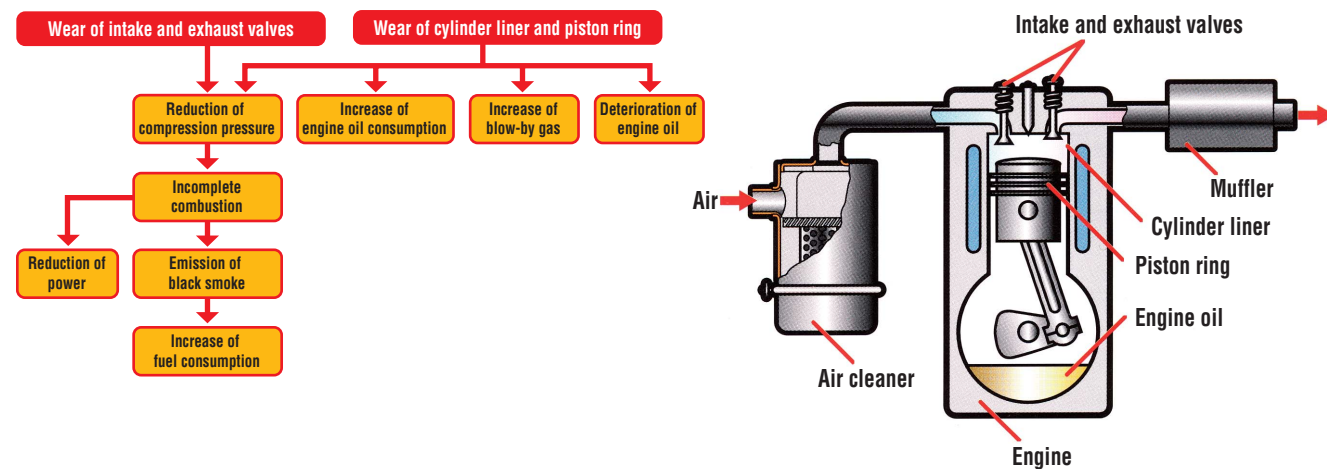


What is air cleaner element?

There are much dust floating in the air. When the floating dust is drawn into the engine, it will wear the sliding part of the engine and shortens the engine life. The air cleaner removes the floating dust from the intake air and plays as an important role in maintaining the engine life.



Precautions for handling

- Clean only the outer element of the air cleaner. If the inner element is removed or blown with compressed air, its filter material may be damaged and dust would enter the engine.
- Limit the number of cleaning times of the outer element up to 6 times. When the outer element is clogged after 6 times of cleaning, replace the element assembly (the set of the outer element and inner element).

Example of models equipped with air cleaner element

| | Machine Models | Element Assy Parts Number | Element Case Outer Diameter (mm / inch) |
|----------------------|--|------------------------------|--|
| Small size machines | PC78US-6 | 600-185-1300 | 152.4 / 6 |
| | PC78US-8 | 600-185-2200 | 177.8 / 7 |
| Middle size machines | PC120-8, PC130-8, WA80-3 | 600-185-2100 | 203.2 / 8 |
| | D37EX/PX-22, PC138US-8, WA200-6 | 600-185-2500 | 228.6 / 9 |
| | D39EX/PX-22, PC200-7, GD555-3 | 600-185-3100 | 254.0 / 10 |
| | D61EX/PX-15, PC200-8, WA320-6 | 600-185-4100 | 279.4 / 11 |
| | D65EX/PX-16, PC300-7, WA380-6, HD325-7 | 600-185-5100 | 330.2 / 13 |
| Large size machines | D155AX-6, PC400-8, WA800-7, HD785-7 | 600-185-6100 | 381.0 / 15 |

For parts numbers, please be sure to refer to the operation and maintenance manual or to the parts book.

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KOMATSU GENUINE PARTS

Air Cleaner Element

Radial Seal Type



High-performance air cleaner element
 that eliminates dust and secures the engine durability

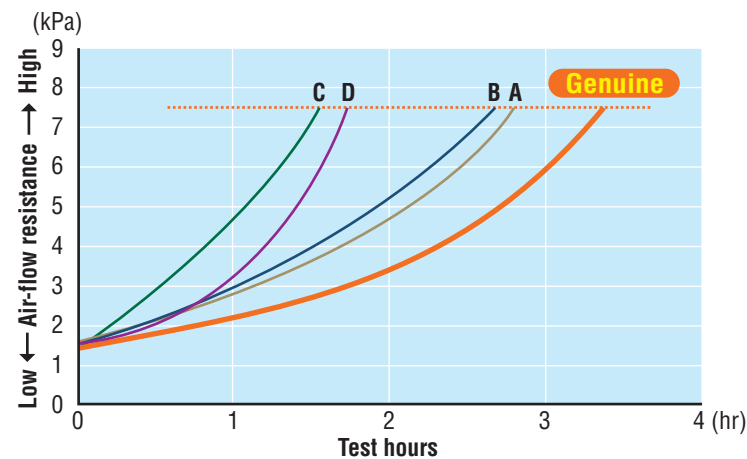
KOMATSU

High-performance air cleaner element of high filtration efficiency and compact size that brings out engine performance to the maximum

Evenly folded filtration paper allows filter efficiency to improve by capturing more dust and extending cleaning interval. As a result it would contribute to lower maintenance cost.

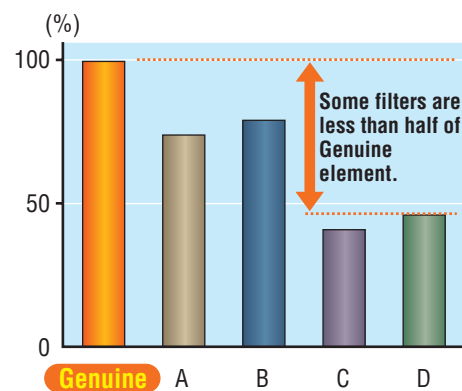
Comparison of filtration efficiency with non-genuine elements for PC200 class

(Condition: Air flow; 18.8 m³/min, Dust density; 1.0 g/m³, Type of dust: ISO Fine)



Comparison of service life

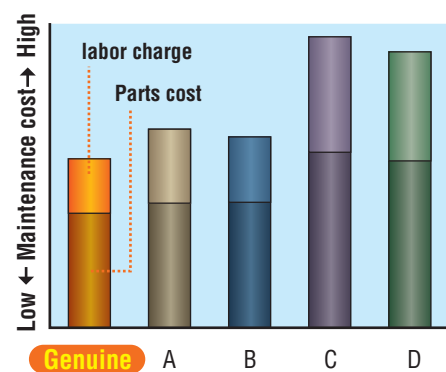
Comparison of replacement intervals of genuine element and non-genuine elements



Comparison of maintenance cost

Element parts cost and clean & exchange labor charge up to 5000 hours for PC200 class

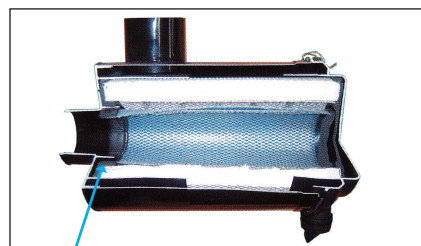
Komatsu in-house data



Easy to handle

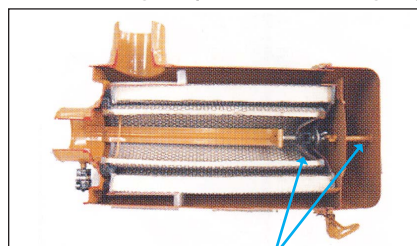
Radial seal type element can be removed and installed easily without using any tool.

Radial seal type



When element is inserted, it centers itself with case partition plate.

Axial seal type (Conventional type)



Tools are required to remove and install. In addition, seal must be replaced.



Air Cleaner Element

Efficient filter paper and polyurethane rubber seals at both ends proves its high sealing performance, the dust will not enter the engine even in a dusty jobsite, thus longer engine life is secured.

Cleaning level test

Komatsu in-house data

(Condition: Air flow; 18.8 m³/min, Dust density; 1.0 g/m³, Type of dust: ISO Fine)

Genuine element



No dust enter inside of element.

Non-genuine element

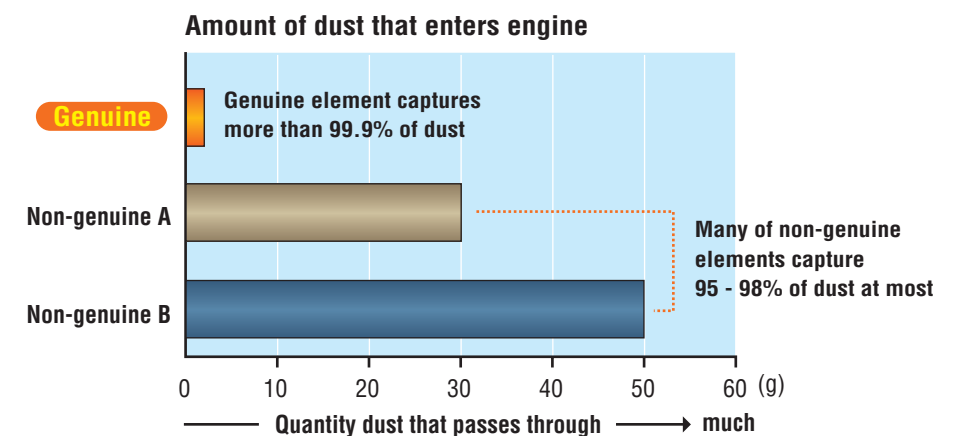


Dust enter inside due to faulty joint.

Radial seal element shows high filtration performance and capture more than 99.9% or more of dust in dusty air.

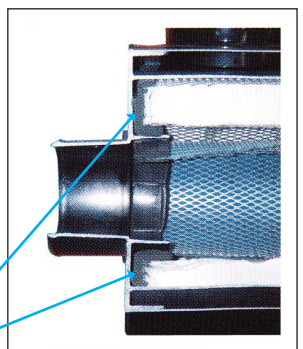
Filtration effect

Komatsu in-house data



Filter paper and polyurethane rubber are molded into one piece to keep its airtightness.

Since end plate and filter material of non-genuine element are generally jointed with adhesive, they tend to come off and dust enters easily.



One piece rubber seal