

# Continuous and effective – this is how exhaust gas treatment with the SintDOC DPF system works

All components are perfectly matched and work smoothly together

The SintDOC system regeneration is continuous and fully-automatic. In the oxidation catalyst fitted upstream carbon monoxide (CO) emissions and hydrocarbons (HC) are reduced by more than 90%.

The metal filter then reduces particulate emissions by more than 99% based on the number concentration in the particulate range of 20 to 300 nm which practically eliminates the soot emissions.

The nitrogen dioxide (NO<sub>2</sub>) formed in the oxidation catalytic converter reacts with the soot in the particulate filter and oxidizes this off continually when an exhaust temperature of 260 to 450 °C has been reached. Conditions for use of the

SintDOC system:

- Engine output between 50 and 600 kW
- Exhaust gas temperatures in the filter between 260 and 450 °C, whereby it is only necessary to reach the

minimum temperature for part of the time.\* For engines with unfavourable emission values (less NOX and/or a lot of PM) it is possible to use platinum-plated filters

- Engine belonging to class II or IIIA to a comparable class
- Exhaust gas backpressure is below the permissible upper limit

- Operation with diesel fuel according to DIN EN 590 with a maximum sulphur content of 50 ppm

\* Depends on the PM and NOX emissions. Individual analysis is recommended.

