



MAN offers particulate filter solution for commercial vehicles

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Retrofit solutions based on PM-KAT® particulate filter possible as early as autumn 2005

At the IAA 2004 in Hanover MAN Nutzfahrzeuge presented its newly developed D20 Common Rail engine for the TGA trucks. With external exhaust-gas recirculation (EGR) in conjunction with the MAN PM-KAT® particulate filter it already satisfies the forthcoming statutory Euro 4 limits on exhaust gas. This makes MAN the first commercial vehicle manufacturer to use particulate filter technology for trucks in the context of Euro 4. MAN thus has at its disposal a technology which will help to solve the problem of fine particulate dust.

The PM-KAT® cuts the total particulate mass by more than 60%, thus reducing the particulate emission far enough for compliance with the Euro 4 and 5 limit on particulates (0.02 g/kWh). In addition to this an even higher share - 80 to 100% - of the smallest particles (nanoparticles, < 40 nm), which are currently a focus of public discussion, are eliminated. This exhaust-gas management concept has already proved over a total distance of 250 million kilometres how reliable it is.

From spring 2006 the exhaust management system with EGR and PM-KAT® will, in addition to the heavy MAN TGA trucks, be introduced in the TGL and TGM vehicles from the light and medium-weight categories and step by step in buses with Euro 4 engines too.

Back in 1999 MAN was the only European commercial vehicle manufacturer to choose cooled exhaust-gas recirculation (EGR) as a cornerstone of its engine strategy. Since then over 150,000 D28 and D20 Euro 3 engines with EGR have been delivered to MAN customers.

MAN is also able to develop an upgrade and retrofit solution based on PM-KAT® for almost all MAN Euro 3 vehicles and to offer it on the market as early as this autumn. Today's Euro 3 engines achieve a particulate limit of 0.1 g/kWh even without particulate filter. Reference measurements show that the nanoparticles can be cut by a further 50 % in Euro 3 vehicles with particulate filter too. As the PM-Kat is a continuously regenerating filter system with open ducts that works without clogging up on a long-term basis and is thus maintenance-free, the risks involved in retrofitting it are low.

Since July 2004 MAN Nutzfahrzeuge has been implementing a license policy that enables third parties to bring retrofit solutions on to the market parallel to vehicles originally equipped for Euro 4/5. With these retrofit solutions emissions of soot particles from older vehicles can be reduced to a significant extent. This applies both to older MAN vehicles already on the roads and to trucks and buses from other manufacturers.

The **MAN Group** is one of Europe's leading manufacturers of machinery and vehicles with annual sales of some €15 billion. As a global supplier of products, systems and services for the capital equipment industry, MAN operates with 62,000 employees in its core segments of commercial vehicles, printing machines, diesel engines, turbomachines and industrial services. MAN Group members hold leading positions in most of their markets. The holding, **MAN Aktiengesellschaft**, Munich, is a member of the Deutscher Aktienindex DAX (German Share Index) which comprises the thirty leading public limited companies in Germany.

Press Release of
MAN Nutzfahrzeuge

Editor

MAN Aktiengesellschaft
Corporate Communications
Ungererstr. 69
80805 Munich/Germany

Queries to
Wieland Schmitz
Tel. +49. 89. 36098-380

Michael Melzer
Tel. +49. 89. 36098-388

public.relations@ag.man.de
www.man-group.com

"In this way MAN is fulfilling its responsibility for the environment and, in demonstrating this commitment, has moved into the lead among manufacturers who want to provide the necessary technology as quickly as possible," said Anton Weinmann, Chairman of the Executive Board of the MAN Nutzfahrzeuge Group.