AdBlue® For Euro 4 and Euro 5!

Felix Weidner



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Backround AdBlue



- Compliance with the new emission standards (Euro IV and V), which will come into force in 2005 and in 2008 respectively, will bring about the introduction of exhaust gas after-treatment systems on high duty commercial vehicles.
- The leading high duty vehicle manufacturers in Europe** have chosen the Selective Catalytic Reduction (SCR) technology in combination with the use of a reagent AdBlue.
- AdBlue and Vehicles with SCR will be introduced from 2005 on progressively.

**(DAF, IVECO, Mercedes-Benz, Renault and Volvo)

Emission Standards





SCR vs. Particulate Trap

Innet Engin 0,12 0,10 **Todays Engines** Particulate Trap EURO 3; 2000 PM [g/kWh] 0,08 0,06 Means 0,04 SCR 0,02 (Selective Catalytic Reduction) Euro 4(2005) Euro 5(2008) 0,00 3 2 5 0 6 4 NO_x [g/kWh]

The Chemical Company

Advantages SCR and AdBlue

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- Fuel efficient engine design
- No blocking of the system with ashes etc.
- No system damage from occasional fuelling with high sulphur diesel fuel
- Reliabel product, designed for vehicle lifetime
- Lowest fuel consumption of all aftertreatment systems

What is AdBlue?



- AdBlue is a synthetical produced, 32,5% urea aqueous solution of highest purity and quality.
- AdBlue is a reagent, needed to reduce nitrogen oxides (NO_x) into elementary nitrogen (N_2) , which is a natural component of the air we breath.
- The quality and purtity of AdBlue specified by the norm DIN V 70070, which assures the quality at the point of refilling.

How do SCR and AdBlue work?



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SCR Truck (I)





SCR Truck (II)





Timetable for Introduction



September 2004

Official Presentation of SCR Trucks at the IAA

February 2005

2nd - 4th Q. 2005

Prospected Start of IVECO, DAF, Volvo and Renault

First Deliveries of SCR Trucks from DaimlerChrysler

1st Q. 2006

Prospected Start of Scania and MAN

10I Can





IBC Indoor





IBC Outdoor (I)





IBC Outdoor (II)





Bulk System 2500 Liter





Bulk System 5000 Liter



