

AGCO Introduces New Eco-Friendly Tractors

AGCO introduced a new line of eco-friendly AGCO SISU POWER diesel powered tractors at Atlanta's Georgia Dome in early February.

The new e3™ tractors utilize a Selective Catalytic Reduction (SCR) emission technology which gives them more Energy since the engines run cooler, significantly improved fuel Economy, and cleaner exhaust for the Ecology—e3.

“Until now, emission reduction meant a tradeoff between reduced fuel economy, increased cost, and more complex components added to the engine,” said Hubertus Muhlhauser, AGCO Senior Vice President and General Manager Engines.

This new technology is available on AGCO DT Series tractors, Challenger MT600C Series tractors, and Massey Ferguson 8600 Series tractors.

The SCR process is downstream from the engine, so it requires no engine modifications. The SCR technology injects an aqueous urea solution, called Diesel Exhaust Fluid (DEF), into the exhaust stream and breaks the smog-producing nitrogen oxides into harmless nitrogen and water.

The aqueous urea solution, or DEF, is a non-hazardous, non-toxic, high-purity, colorless solution of 32.5% urea and water. The DEF is carried on-board the tractors in

Brian Sieg, Product Manager, with 2 1/2 gallon jug of DEF.



an 8-gallon tank and is injected into the exhaust stream at a rate of 3% of the diesel consumption. The engine output will drop to “Safe Mode”, or 50% power, if the DEF tank becomes empty. Ample warning of low DEF is given and full power is restored once the system senses fluid in the tank.

SCR technology is available for these tractor models.

AGCO

DT205B, DT225B

DT250B, DT275B

Challenger

MT645C, MT655C

MT665C, MT675C

Massey Ferguson

8650, 8660, 8670, 8680



AGCO is the first to introduce this SCR treatment for the agriculture market. However, the technology is utilized on more than 550,000 on-road vehicles in Europe, Japan, Australia, Hong Kong, Taiwan, Korea, New Zealand and Singapore.

DEF is available in 2½-gallon jugs, 55 gallon drums, and 275-gallon totes.

DEF has minimal special storage requirements. It should be stored between 14° F (10° C) and 86° F (30° C), since it begins to gel at about the same temperature as diesel fuel, 12° F (-11°C).

Special pumps and heater bands approved for DEF use will be available through AGCO Parts. The manufacturer recommends storing DEF in its original container. Equipment, including pumps, that contacts the DEF must be DEF approved to avoid contamination.

