

Cummins Brings Tier 4 'Technology That Transforms' to INTERMAT

20 April 2015 by Cummins

The opening day of INTERMAT highlighted a strong presence of Cummins engines in equipment meeting low emissions requirements in the 75 to 751 hp (56-560 kW) low-emissions power category. Cummins power was featured in a wide variety of machines, from site dumpers to excavators, cranes to compressors, forklifts to compactors, and wheel loaders to road milling machines.

Significant productivity improvements and fuel-efficiency gains have been realized for the machines with the transition to low-emissions engines, highlighting how Cummins brings Technology That Transforms to each application – not just with ultra-clean power, but also with improved response and lower operating costs.

The move to near-zero emissions at U.S. Environmental Protection Agency (EPA) Tier 4 Final (European Union Stage IV) has been achieved with an additional reduction in fuel consumption to that achieved at Tier 4 Interim (Stage IIIB). Depending on application, Cummins-powered machines are able to realize up to 8 percent improved fuel-efficiency compared with their pre-2011 Tier 3 (Stage IIIA) equivalents. With the full potential of Tier 4 technology utilized, even higher savings have been achieved with features such as torque shaping, idle control and eco-operating modes.

Importantly, the advantage of low-emissions engines comes with no compromise to reliability. That has been confirmed by Cummins in-service reports based on a large engine population in operation since the use of exhaust aftertreatment.

Analyses of warranty data and service events clearly indicate that Cummins low-emissions engines are delivering uptime availability levels at least equal to that of previous Tier 3 (Stage IIIA) engines with a long-established reputation for reliability.

"In-service dependability is a key attribute of Cummins low-emissions technology, and our tracking of the Tier 4 engine population is clearly indicating that equipment operators are seeing uptime availability and minimal service intervention equally impressive as what they experience with our mature Tier 3 engines," said Hugh Foden, Executive Director – Cummins Off-Highway Business.

The ability to transform machine performance is reflected in the theme of the Cummins booth (L028, Hall 5b), featuring a 49 hp-to-675 hp (37-503 kW) engine range compliant with Tier 4 Final and Stage IV regulations.

The engines have been specified for over 400 machine integration projects by almost 70 equipment manufacturers.

The engine lineup includes the 4-cylinder QSF2.8 and QSF3.8, targeted toward compact equipment, along with the new QSG12, providing heavy-duty power for high-output machines. The engine lineup also includes the midrange QSB4.5, QSB6.7 and QSL9, together with the top-of-the-range QSX15. Cummins portfolio of key enabling technologies will be showcased, with complete air intake-to-aftertreatment exhaust-out systems and components.

Source: @GraylingNorth; Cummins