

## **FPT INDUSTRIAL PRESENTS HI-eSCR2, THE STAGE V SOLUTION FOR OFF-ROAD APPLICATIONS**

Turin, April 2016

Alongside FPT Industrial's comprehensive range of engines, the world-leading manufacturer and supplier will be showcasing its patented second generation HI-eSCR after-treatment stage V solution at the 31<sup>st</sup> edition of Bauma Show in Munich Germany, 11-17 April 2016.

The extensive range of off-the-shelf powertrain solutions for construction applications, from mini excavators to wheel loaders, covers from 2.2 to 20 litre and can satisfy all customer requests. If this is not enough FPT has the capability, with its 7 R&D centers and over 900 engineers around the world, to develop customized products, matching even the most demanding request from the OEM.

To comply with Stage V emissions standards, all engines above 4 litres will use HI-eSCR2, the second generation of the FPT Industrial's renowned and patented High Efficiency Selective Catalytic Reduction (HI-eSCR) after-treatment technology. FPT Industrial confirms its long-term SCR-only strategy in order to achieve updated standards. It's one of the few manufacturers to retain an Exhaust Gas Recirculation (EGR) and active regeneration free solution, maintaining the competitive advantages achieved in Stage IV/Tier 4B, such as best in class in fuel economy and best in class in power and torque density.

In order to meet Stage V both particle mass and particle count requirements, the second generation HI-eSCR system has an integrated particle filter on the SCR, which makes it an extremely compact solution. When considering the engine, its cooling and after treatment system FPT's solution is 10% smaller than the competitor average (considering 6 litre, 6 cylinder engine competitors).

On top of this, FPT's flexible solution, with up to 20 different layouts available for each power node, avoids additional redesign efforts from the vehicle manufacturer, as its predecessor. The newly integrated particle filter does not require active regeneration and the engine is best in class in fluid consumption, using around 3% less vs competitor average using EGR and with active regeneration.



PRESS RELEASE

### **Engines on display:**

FPT Industrial's smallest Tier4B engine, the three-cylinder, 2.2-litre R22, is the most compact engine in the low displacement segment, especially suited for applications such as mini excavators and pavers, offering high performance, up to 52 kW, and low maintenance. Featuring Common Rail fuel injection and a turbocharger with after-cooler and waste gate, this powertrain solution has service intervals of up to 600 hours and meets Tier 4B/Stage IIIB emission regulations with the aid of a maintenance-free after-treatment solution, adopting a combination of Diesel Oxidation Catalyst (DOC) and Partial Flow Filter (PFF), contained in an integrated converter.

Alongside the low displacement R22, FPT Industrial will showcase its N45, a four-cylinder, 4.5-litre engine delivering up to 129 kW, part of the NEF series, recognized for offering high-performance, reliable, cost-effective and compact solutions for applications such as telehandlers and wheeled excavators.

Also from the NEF series, the N67 will be on display. Ideal for applications such as wheel loaders crawler excavators and graders, this 6.7 litre, 6 cylinder unit has a maximum power output of 210 kW.

At the high end of the scale, the six-cylinder, 16-litre Cursor 16, delivers 18-litre performance in a 13-litre compact package, with best in class power and torque density, performance and service intervals. With up to 630 kW this engine is developed for applications such as large excavators and dumpers.

To comply with Tier 4B/Stage IV emissions standards, all engines above 4-litre, including the Cursor 16, use the patented High efficiency Selective Catalytic Reduction (HI-eSCR) system.

Developed ahead of Euro VI and Tier 4 Final emission regulations implemented in 2014, FPT Industrial's patented HI-eSCR after-treatment solution maximises combustion efficiency in order to reduce particulate matter production and meet legislation. The solution uses clean air rather than Exhaust Gas Recirculation (EGR) before the after-treatment HI-eSCR converts NOx to diatomic nitrogen and water, and does not need a Diesel Particulate Filter (DPF).

To further support customers with Tier 4B/Stage IV emission regulations, the HI-eSCR after-treatment system is extremely flexible in terms of installation. Resulting from the absence of EGR, FPT Industrial's solutions do not require OEMs to change the existing cooling packs used in Tier 4A. This saves costs, weight and space and is in direct contrast to Tier 4B solutions adopting EGR.

In view of the future Stage V emission regulations FPT also presents the F34, its 3.4 litre, 4 cylinder engine ideal for applications such as telehandlers, back-hoe loaders and pavers.

All these engines and more are also available for power generation applications, in versions including bare engines, G-Drives, soundproof and open gensets. FPT Industrial has recently extended its range of these solutions to now support applications from 31 kW to 582 kW with the launch of two new G-Drives (S8000 and C16) at Middle East Electricity 2016.

FPT Industrial will be present at Bauma in Hall A5, Stand 415, with experts on hand to discuss the company's solutions for the construction market and future perspectives in the powertrain sector.

***FPT Industrial** is a brand of CNH Industrial, dedicated to the design, production and sale of powertrains for on and off-road vehicles, marine and power generation applications. The company employs approximately 8,200 people worldwide, in ten manufacturing plants and 7 R&D Centers. The FPT Industrial sales network consists of 90 dealers and over 1000 service centres in almost 100 countries. A wide product offering, including six engine ranges from 31 kW up to 740 kW and transmissions with maximum torque of 200 Nm up to 500 Nm, and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains. For further information, visit [www.fptindustrial.com](http://www.fptindustrial.com).*