

“WE ARE FIVE STEPS AHEAD”: FPT INDUSTRIAL PRESENTS ITS STAGE V SOLUTIONS FOR OFF-ROAD APPLICATIONS AT EIMA 2016

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With more than 25 years' experience in SCR solutions development and its HI-eSCR2 exclusive technology, thanks to its active regeneration free particulate filter, an after-treatment system “for life” and best-in-class engine efficiency, FPT Industrial can say: **“We are five steps ahead”**. Ready for Stage V new technologies challenge.

FPT Industrial's presence at the 2016 edition of EIMA International (BolognaFiere, November 9-13, Hall 15 - First floor - Stand B11) allows visitors to broaden their knowledge of the global leading engine manufacturer's most advanced solutions for agriculture applications in view of the introduction of the Stage V emissions standard. To comply with Stage V, all engines above 4 liters 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 retaining an active regeneration free solution and avoiding an Exhaust Gas Recirculation (EGR) on engines above 4 liters, thus maintaining the competitive advantages achieved in Stage IV/Tier 4B, such as best in class for fuel economy and best in class for power and torque density.

In order to meet both Stage V's 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 with no dimension increase versus current Stage IV. When considering the engine, its cooling and after treatment system FPT's solution is 10% smaller than the competitor average (considering 6 liter, 6 cylinder engine competitors).

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

Engine on display at EIMA 2016

From the NEF series, the **N67** is a 6.7 liter, 6 cylinder unit with a maximum power output of 230 kW (308 hp), ready to comply with Stage V emissions standards. Boasting a production of more than 1.3 million engines produced since 2001 from the NEF series, N67 is a best in class engine for performance (up to +3% power and torque density versus competitors average). Its EGR-free architecture ensures top class efficiency (up to -3% fluid consumption versus competitors using EGR and active regeneration) and reliability, while active



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regeneration free "for life" ATS for maximum vehicle uptime and minimized operating costs. Indeed, no active regeneration means maximized uptime, because users have no need to halt equipment during operations. Besides, this means more safety while working, especially in closed environments such as the stables. And, at the same time, low ATS temperature prevents the need for heat protection against active regeneration peak temperatures. Furthermore, N67 requires no changes in the cooling package, using a single solution across emission stages (from Stage IIIA to Stage V).

The N67 is the ideal choice for medium and large tractors, combine harvesters, feed mixers and sprayers thanks to its maximum fuel efficiency while ensuring high power and torque output and low particulate emissions. Furthermore, the N67 is equipped with wastegate and VGT turbochargers for high power density and quick load response.

N67 Stage V specification

Architecture:	In-line 6 cylinder engine
Injection System (bar):	Common Rail (up to 1600 bar)
Air Handling:	WG / VGT
Valves per cylinder (number):	4
Displacement (cm ³):	6724
Bore per stroke (mm):	104 x 132
Peak Power (kW):	230
Rated Power Range (kW):	110-230
Max Torque (Nm):	1300
Dimensions L / W / H (mm):	1062 / 687 / 1049 (*)
Dry Weight (kg):	530 (NS) – 620 (S)
Oil Service Interval (h):	600
EGR:	NO
ATS:	HI-eSCR 2 (DOC+SCRoF)

(*) values of base engine version; to be finalized with FPT Industrial for different engine dressing

***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 8,400 people worldwide, in ten manufacturing plants and seven R&D Centres. The FPT Industrial sales network consists of 93 dealers and over 900 service centres in almost 100 countries. A wide product offering, including six engine ranges from 31 kW up to 740 kW, transmissions with maximum torque of 200 Nm up to 500 Nm, front and rear axles from 2 to 32 ton GAW (Gross Axle Weight) and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains. For further information, visit www.fptindustrial.com.*

Media contact:

Fabio Lepore
FPT Industrial Press Office

Tel.: +39 011 007 6720 | Mob. +39 3357469007

E-mail: press@fptindustrial.com