

FPT INDUSTRIAL F1A AND F1C ENGINES FOR THE NEW IVECO DAILY “BLUEPOWER”

Turin, October 4, 2017

FPT Industrial's efforts for a cleaner air keep growing. The market demands' for more sustainable products and the major attention to these matters, led FPT Industrial to develop a wide line-up of engines capable to respond to increasingly stricter emission regulations.

FPT Industrial's latest efforts come with the new IVECO Daily Blue Power powered by the renowned F1 engine family in two different solutions: the **F1A Diesel SCR RDE Ready** (2,3 liter displacement) and the **F1C Natural Gas** (3,0 liters displacement).



F1A DIESEL SCR RDE READY



The **F1A Diesel** has a displacement of 2,3 liters and provides many advantages both to OEMs and end-users. The qualities of the regular Diesel engines are combined with the lowest emission rate in its category, resulting in the only diesel engine compliant with Real-Driving Emissions limits, that will be mandatory in September 2020. Beside this three year advantage over its competitors, this engine has great durability thanks to higher displacement. In the past year, this powertrain has been fully re-engineered by reducing friction, optimizing the cooling system, adopting a variable displacement oil pump, thus reducing fuel consumption. All these characteristics **contribute to a TCO (Total Cost of Ownership) reduction**.

The F1A Diesel model is equipped with FPT Industrial's patented and exclusive SCR technology, a particular after-treatment system that FPT Industrial has been adopting for 25 years. Throughout this period, FPT Industrial has powered more than **210,000 Light Commercial Vehicles**, providing them a solution that lowers both the fuel consumption and the level of pollutants. Overall, during the years, this system has been applied to **more than 700,000 total SCR units** on different vehicles, both On- and Off-road.

F1A DIESEL SCR RDE READY specifications

Architecture:	In-line 4-cylinder engine
Intake:	Wastegate or Variable Geometry Turbocharged with Aftercooler
Injection:	Common Rail 1600 bar
Valves per cylinder:	4
Displacement (l):	2.3
Bore (mm):	88
Stroke (mm):	94
Power range in hp (kW):	116-156 (85-114) @ 3.600 rpm
Torque range in Nm:	320-380 @ 1.500 rpm
Service interval (km):	up to 50,000 (depending on mission)
Weight (in kg):	204
ATS:	High-Pressure EGR + ClosedCoupled DPF + SCR

F1C NATURAL GAS



FPT Industrial has a long-lasting experience in Natural Gas technologies, certified by **more than 30,000 Natural Gas fueled engines sold** all over the world in the last 20 years. Since 1995, in fact, FPT Industrial has been a pioneer in the adoption of in-house developed stoichiometric technology that ensures the correct air to gas ratio in all working conditions, thus granting clean combustion and low emissions.

The **F1C NG engine** has a **3 liter displacement** and delivers **136 hp with 350 Nm of max torque**. This solution can also be fueled with bio-methane that can lead to a near zero CO₂ emission. Nevertheless, this engine ensures the same robustness and reliability as a Diesel one, while allowing cost savings up to 35%. When compared to similar products of competitors, the F1C NG provides higher torque, better transient response, and lower noise and vibration – resulting in better driving comfort -, and is more reliable and durable than its 2-liter competitor.

F1C NATURAL GAS specifications

Architecture:	In-line 4-cylinder engine
Intake:	Wastegate Turbocharged with Aftercooler
Injection:	Multipoint with Stoichiometric combustion
Valves per cylinder:	4
Displacement (l):	3,0
Bore (mm):	96
Stroke (mm):	104
Power range in hp (kW):	136 (100) @ 3.500 rpm
Torque range in Nm:	350 @ 1.500 rpm
Service interval (km):	up to 40,000 (depending on mission)
Weight (in kg):	245
ATS:	3 way catalyst

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 more than 8,000 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 42 hp up to 1,006 hp, 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.

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