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GEN2 ECOTORQ ENGINE





New Combustion System

- Increased Compression Ratio (CR21) and Peak Firing Pressure (PFP)
- » Optimized Combustion with New State of the Art Piston Shape
- » New Generation Fuel Injection System
- » High Power & Torque Capability



Weight & Durability

- » Enhanced material and optimized design ensures weight reduction and high durability
- » New cylinder head with enhanced and optimized cooling circuit
- » Weight Reduction of 47 kg with respect to GEN1.5
- » New Exhaust/Intake Valves & Seats with enhanced materials

Calibration & Software » Best Fuel Economy Calibrations Developed

Variable Displacement Oil Pump (VDOP)

Electronically controlled variable displacement oil pump designed to achieve SFC benefit by reducing oil flow.

Electronic Oil Temperature Control Valve(OTCV)

Runinng engine at higher and constant oil temperature to reduce friction loss.

The Ecotorq GEN2 EU6 12.7-liter engine powertrain redefines fuel efficiency in transport operations.



Active Thermal Management

- » New Variable Displacement Oil Pump (VDOP) allows flow adjustment according to operating conditions, ensuring fuel savings
- » New Electronically Controlled Piston Cooling Jets actively controls piston temperature, ensuring fuel savings
- » New e-TOV (Thermostatic Oil Valve) enables operation at higher oil temperatures and ensures optimized oil temperature control

Cooling & Lubrication

- » Improved Serviceability w/Cartridge Type Oil Filter Less Maintenance Cost
- » New Cooling Circuit with Relocated Thermostat to Enable Better Cooling



Fuel Economy & TCO

- » New Water Pressure Sensor enables early detection of potential cooling system failures and prevents engine losses
- » New High Efficient Fixed Geometry (FGT) Turbocharger
- » HVO Compatibility

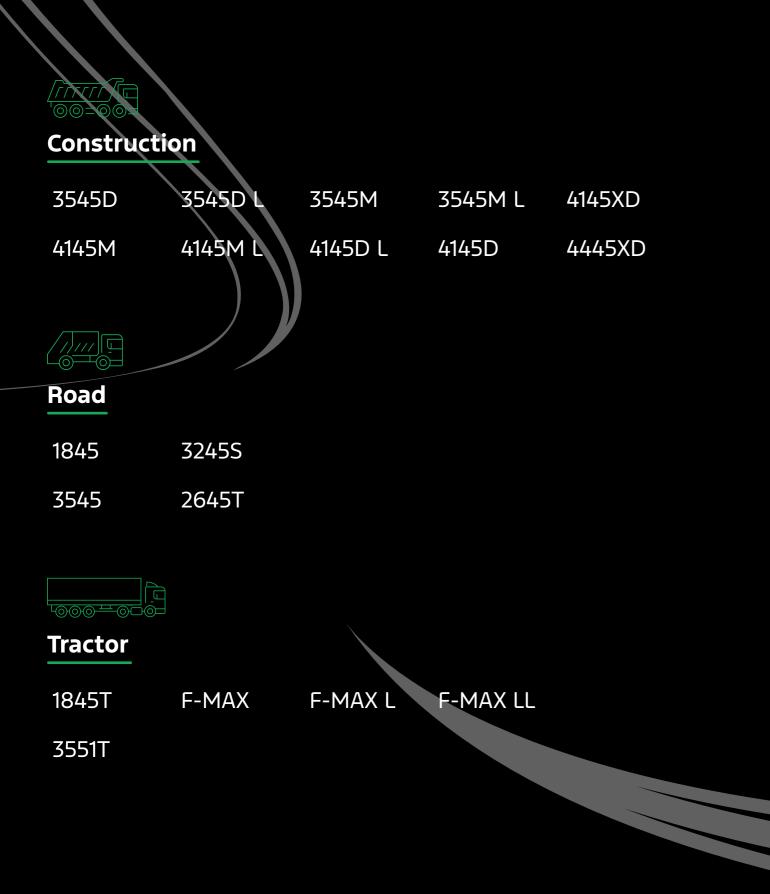
Cartridge Oil Filter

New oil filter module with cartridge type, which is environmental friendly. One cartridge oil filter instead of two spin-on is used to reduce cost of ownership.

Electronically Controlled Piston Cooling Jets (e-PCJ)

e-PCJ introduced to control piston temperature by optimizating oil flow.

VEHICLES WITH ECOTORQ GEN2 ENGINE



- » F-Line construction trucks have 450 PS and 2300 Nm torque. When off-road mode is activated in case of high power demand, the torgue increases to 2500 Nm. This feature provides fuel consumption benefit to the customer by enabling a lower torque when high power is not required.
- » F-LINE 4x2 tractor, 1845T and road series will run by 450 PS. Thanks to Eco Mode, power can be decreased to 420 PS for better fuel consumption if needed.
- » F-LINE 6x4 tractor and F-MAX series will run by 510 PS. For 6x4 tractor, power mode and normal mode will be available. For F-MAX series, power mode, normal mode and eco mode will be available.
- » Features tab on multimedia screen can be used for choosing the driving modes suitable for specific driving needs.

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		Driving Modes							
		Power		Normal		Eco		Off-Road	
Power Rating	Vehicles Series	Power	Torque	Power	Torque	Power	Torque	Power	Torque
510 PS	Tractor: F-MAX Series	510 PS	2600Nm	510 PS	2600Nm	450 PS	2600Nm		
	Tractor: 3551T	510 PS	2600Nm	510 PS	2600Nm				
450 PS	Tractor: 1845T	450 PS	2300Nm	450 PS	2300Nm	420 PS	2300Nm		
	Construction			450 PS	2300Nm			450 PS	2500Nm
	Road	450 PS	2300Nm	450 PS	2300Nm	420 PS	2300Nm		

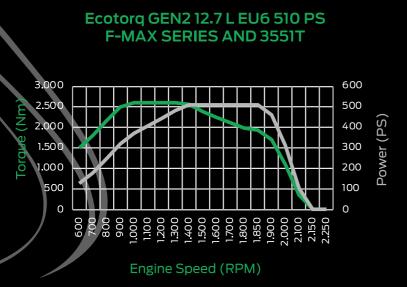






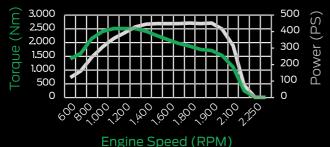
POWER: ECOTORQ GEN2 ENGINE

The Ecotorg GEN2 engine has 12.7 L volume and produces 450 PS power for road, construction and 4x2 tractor. It can also have 510 PS for F-MAX series and 6x4 tractor series to be suitable in applications where power is a priority.

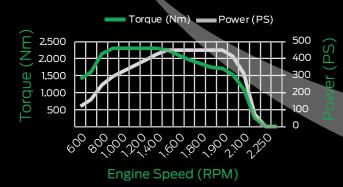


Ecotorq GEN2 12.7 L EU6 450 PS CONSTRUCTION

Torque (Nm) Power (PS)



Ecotorq GEN2 12.7 L EU6 450 PS 1845T AND ROAD



Hydro-treated vegetable oil (HVO) is a type of renewable diesel fuel made from vegetable oils, such as rapeseed, soybean, palm, or waste cooking oil, through a process called hydrotreating. HVO is considered a sustainable alternative to fossil fuels because it is produced from renewable feedstocks and has lower carbon emissions compared to conventional diesel.

- » Drop-in Fuel --> No hardware or calibration change is needed on the truck in order to use it with HVO. Just fill in HVO and drive.
- » HVO provides comparable performance, consumption and emission results with diesel fuel EN 590.
- » HVO leads to high well-to-wheel CO2 emission reduction (source dependant: up to %70)

REDUCTION IN HARMFUL **EMISSIONS**

SAFER FOR THE ENVIRON-MENT





LONG **STORAGE** LIFE

SUSTAINABLY PRODUCED



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