

## SPECIFICATIONS

Thermodynamic Cycle	Diesel 4 stroke
Air Handling	TAA
Arrangement	4L
Bore x Stroke (mm)	104 X 132
Total Displacement (l)	4.5
Valves per cylinder (n°)	4
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Compression ratio	17.5:1
Injection System	ECR

## PERFORMANCE

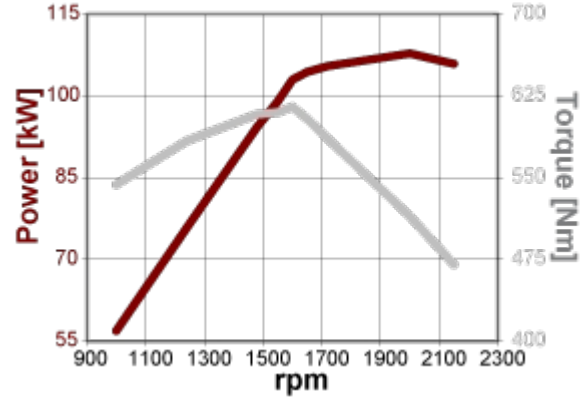
Rated power [*] (kW (HP) @ rpm)	104 ( 141 ) @ 2200
Peak torque (Nm (kgm) @ rpm)	608 ( 62 ) @ 1600
High idle speed (rpm)	-
Low idle speed (rpm)	--

Minimum starting temperature without auxiliaries (°C)	-15 °
Oil and oil filter maintenance interval for replacement [***] (hours)	600

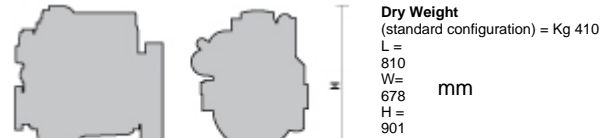
## STANDARD CONFIGURATION

Flywheel housing (type)	SAE 3 - cast iron
Flywheel size (inch)	11,5"
Intake manifold location	right side / rearwards
Exhaust manifold location	-
Turbocharger	fixed geometry with waste gate valve
Turbocharger location	middle high / right side
Fan transmission ratio	1.4:1
Distance between fan - crankshaft centers (mm)	X = 0 Y = 296
Fuel filter (n°)	single cartridge - left side
Fuel prefilter	optional
Fuel Pump	high pressure pump (H.P.P.)
Oil filter (n°)	single cartridge - right side
Oil sump	suspended sheet steel / front sump, 35° angularity limits continuous in all directions
Oil vapours blow-by circuit	flywheel housing / Mann & Hummell valve
Oil heat exchanger	incorporated into the block
Oil filler	on valve cover
Lift pump	-
Starter	24 V - 4 kW
Alternator	24 V - 70 A with W contact
Engine stop device	incorporated in the pump
Wiring harness	-
Painting color	grey

[\*] Power at flywheel according to 2004/26 EC (without fan), after 50 hours running, 3% tolerance, fuel Diesel EN 590.  
 [\*\*] Oil type: ACEA E3 - E5.



## WEIGHT AND DIMENSIONS



## NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)	-
PTO - transmission ratio	1.03:1
PTO - maximum available torque	SAE A 100 Nm (9 teeth) - 150 Nm (11 teeth) SAE B 240 Nm (13 teeth)
Battery - minimum capacity recommended [*] (Ah)	130 Ah (24 V)
Battery - minimum cold cranking capacity recommended [*] (A)	500 A (24 V)

## Legend

<b>Arrangement</b> L (in line)	<b>Air Handling</b> TAA (Turbocharged with aftercooler) TC (Turbocharged) NA (Naturally Aspirated)	<b>Turbocharger</b> WG (Wastegate) VGT (Variable Geometry Turbocharger) TST (Twin Stage Turbocharge)	<b>Injection System</b> M (Mechanical): ECR (Electronic Common Rail) EUI (Electronic Unit Injector)	<b>Emission Standard</b> EEV (Enhanced Environmentally friendly Vehicle)	<b>Exhaust System</b> EGR (Exhaust Gas Recirculation) SCR (Selective Catalytic Reduction)
-----------------------------------	---	---	--	---	---

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE [WWW.FPTINDUSTRIAL.COM](http://WWW.FPTINDUSTRIAL.COM)



FPT INDUSTRIAL OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE

[www.fptindustrial.com](http://www.fptindustrial.com)

