

## SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke	
Air Handling	TCA	
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	4
Cooling System	liquid	
Direction of Rotation (viewed facing flywheel)	CCW	
Compression ratio	17.5:1	
Injection System	ECR	

EGR	-	
-----	---	--

## PERFORMANCES

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

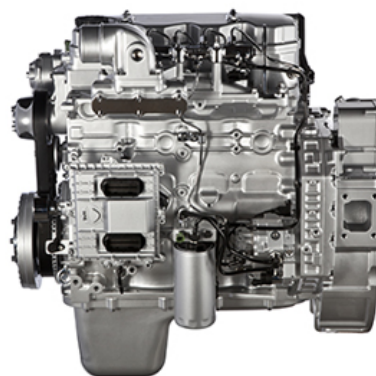
## STANDARD CONFIGURATION

Flywheel housing	type	SAE 3 - cast iron
Flywheel size	inch	11" ½
Intake manifold location	right side / rearwards	
Exhaust manifold location	-	
Turbocharger	Fixed Geometry Turbo	
Turbocharger location	middle high / right side	
Fan transmission ratio	1.4:1	
Distance between fan - crankshaft centers	millimeters	X=0 Y=296
Fuel filter	number	single cartridge - left side
Fuel prefilter	optional	
Fuel Pump	high pressure pump (H.P.P.)	
Oil filter	number	single cartridge - right side
Oil sump	suspended sheet steel / front sump, 35° angularity limits continuous in all directions	
Oil vapours blow-by circuit	oil housing / Mann & Hummell valve	
Oil heat exchanger	incorporated into the block	
Oil filler	on valve cover	
Alternator	24 V - 70 A with W contact	
Hydraulic steering pump	-	
Wiring harness	-	
Painting color	grey	
Starter	24 V - 4 kW	
Maximum torque available from crankshaft pulley	Nm	-
Engine stop device	incorporated in the pump	

## WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	810 x 678 x 901
------------	------------	-----------------

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## POWER & TORQUE



## 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	Ah	24 V - 500 Ah

## LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharge)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharge)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

