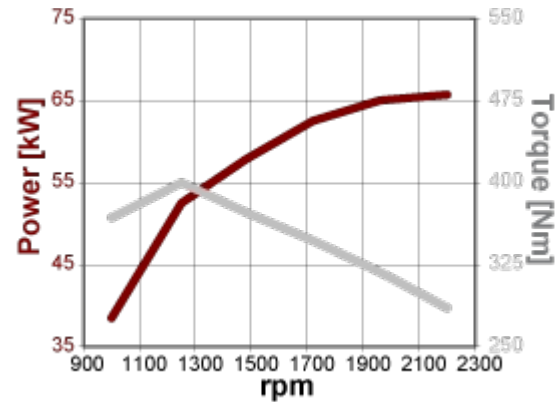


SPECIFICATIONS

Thermodynamic Cycle	Diesel 4 stroke
Air Handling	TC
Arrangement	4L
Bore x Stroke (mm)	104 X 132
Total Displacement (l)	4.5
Valves per cylinder (n°)	2
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Compression ratio	17.5:1
Injection System	M

PERFORMANCE

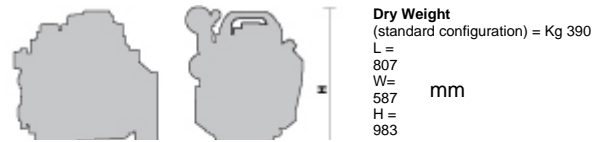
Rated power [*] (kW (HP) @ rpm)	66 (90) @ 2200
Peak torque (Nm (kgm) @ rpm)	400 (41) @ 1250
High idle speed (rpm)	2430
Low idle speed (rpm)	± 800
Minimum starting temperature without auxiliaries (°C)	-15 °
Oil and oil filter maintenance interval for replacement [***] (hours)	600



STANDARD CONFIGURATION

Flywheel housing (type)	SAE 3 - (wide / narrow) - cast iron
Flywheel size (inch)	11" 1/2
Intake manifold location	rearwards
Exhaust manifold location	middle high / right side / frontwards
Turbocharger	fixed geometry
Turbocharger location	middle / 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	mechanical rotary pump
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	timing cover
Oil heat exchanger	incorporated into the block
Oil filler	on valve cover
Lift pump	-
Starter	12 V - 3 kW
Alternator	12 V - 90 A with W contact
Engine stop device	incorporated in the pump
Wiring harness	-
Painting color	grey

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)	180 Ah (12 V)
Battery - minimum cold cranking capacity recommended [*] (A)	950 A (12 V)

[*] 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.

Legend

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