	Model :	<b>4M10G88/5</b>	Date :	05/03/21
	<b>PowerKit Engine Scope Of Supply</b>		Page :	1 / 3

### Basic data

Engine model	.....	4M10G88/5
Configuration N°	.....	DHM10D0013
N° of Cylinders / Valves	.....	4 / 8
Cylinders arrangement	.....	In line
Displacement (L)	.....	4.087
Thermodynamic Cycle	.....	Diesel 4 stroke
Cooling System	.....	Liquid (water + 50% antifreeze)
Injection System	.....	Direct
Fuel System	.....	Mechanical Pump
Aspiration	.....	Turbocharged
Flywheel housing	.....	SAE 3
Flywheel	.....	11.5"
Max. working ambient temperature	.....	See derating curves
Max. working altitude	.....	See derating curves
Front engine mounting brackets	.....	Supplied mounted
Rear engine mounting brackets	.....	Not supplied

### Lubrication system


Lubricating oil low pressure alarm sensor (LOP)	.....	Supplied
Lowest oil pressure alarm (shutdown) (Bar)	.....	1
Lubricating oil pressure sensor for gauge supplied	.....	0-10 Bar Vdo match scale
Lubricating oil temperature sensor for gauge	.....	Not supplied
Replaceable oil filter(s)	.....	Supplied
Oil and oil filter(s) element(s) change interval	.....	Every 500 running hours
Oil dipstick mounted	.....	Supplied
Manual oil drain pump	.....	Not supplied
Oil pre-lubricating electric pump	.....	Not supplied and not necessary

### Intercooling system

Intercooler type	.....	N/A
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### Air intake system

Air filter(s) with connection pipe(s) with replaceable cartridges supplied	.....	Mounted
Visual indicator for dirty filter	.....	Supplied
Electrical air heater	.....	Not available

	Model : <b>4M10G88/5</b>	Date : 05/03/21
	<b>PowerKit Engine Scope Of Supply</b>	Page : 2 / 3

## Cooling system with standard radiator version 2020

### Execution with radiator

System designed for ambient temperature up to (°C) <sup>1</sup> .....	50
Radiator with connecting parts supplied .....	Mounted
Radiator type .....	Mechanical
Fan type .....	Belt driven pusher
Front radiator guard .....	Supplied
Fan guard .....	Supplied
Low water level sensor .....	Not supplied
Coolant capacity of radiator and pipes (L) .....	7

### Execution without radiator

Radiator .....	Not supplied
Connection pipes between engine and radiator .....	Not supplied
Flexible pipes for connection .....	Not supplied
Fan .....	Not supplied
Protection guards .....	Not supplied


### Common data for both the above mentioned versions

Coolant capacity of the engine (L) .....	9.4
Coolant high temperature alarm sensor (HWT) .....	Supplied
Coolant alarm (shutdown) temperature (°C) .....	105
Coolant temperature sensor for gauge supplied .....	40-120°C Vdo match scale

## Exhaust system

Dry type exhaust pipe with heat shield .....	Supplied
Flange installed on the exit of the exhaust system.....	Supplied
Counter-flange with gasket and bolts for exhaust pipe connection.....	Supplied
Exhaust expansion joint with flanges .....	Not supplied
Silencer .....	Not supplied

<sup>1</sup> The indicated value is based on an AOT value of 50°C for an engine tested at 100% of the PRP Power, in an open condition, without an enclosure or container, without any airflow obstruction in the front of the radiator, without air recirculation, with free exhaust gas exit and with the engine thermostatic valve in its full open condition, without a closing plate present.

	Model :	<b>4M10G88/5</b>	Date :	05/03/21
	<b>PowerKit Engine Scope Of Supply</b>		Page :	3 / 3

## Fuel system

Governor	.....	Electronic
Governor steady state speed stability at constant load (ISO 8528-5 Class G3)	.....	≤ +/- 0.5 %
Fuel filter mounted type	.....	Fine single type
Primary fuel filter / water separator	.....	Not supplied
Fuel filter(s) element(s) change interval	.....	Every 500 running hours <sup>1</sup>
Fuel priming pump type	.....	Mechanical
Fuel cut off electrical valve	.....	Not supplied

<sup>1</sup> The indicated change interval running hours is the maximum period when using good quality fuel, (EN 590 standard); this is reduced if the fuel is low quality fuel, if the fuel is contaminated, if the fuel has presence of water.

## Electrical system

Electrical system voltage (negative to ground) (Vdc)	.....	12
Starter power (kW)	.....	3.8
Battery charger current (A)	.....	80
Engine electrical wiring	.....	Not supplied

## Painting

“Moteurs-Baudouin” Blue for the diesel engine

Standard supplier for radiator, alternator battery charger, pipes and air filter(s)

## Testing

Standard factory test not witnessed

Test report available only upon request

## Documentation

Operation & Maintenance Manual in English language ..... Supplied in soft copy

## Packaging

Wooden pallet + plastic cover

## Tools

Standard tool box ..... Not supplied

## Spare parts

One set of spare parts for first maintenance interval : oil + fuel filters + V-belts ..... Optional