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Basic data

Engine model	4M10G70/5
Configuration N°	DHM10D0012
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

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Cooling system with standard radiator version 2020

Execution with radiator

System designed for ambient temperature up to (°C) ¹	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

¹ 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.

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Fuel system

GovernorElectronic
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 separatorNot supplied
Fuel filter(s) element(s) change intervalEvery 500 running hours ¹
Fuel priming pump type Mechanical
Fuel cut off electrical valveNot supplied

¹ 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 wiringNot 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 languageSupplied in soft copy

Packaging

Wooden pallet + plastic cover

Tools

Standard tool boxNot supplied

Spare parts

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