Basic data

Engine model	20M33G2200/6
Configuration N°	DHM33D0453
N° of Cylinders / Valves	20 / 80
Cylinders arrangement	At Vee
Displacement (L)	150 x 185
Thermodynamic Cycle	Diesel 4 stroke
Cooling System	Liquid (water + 50% antifreeze)
Injection System	Direct
Fuel System	High Pressure Common Rail
Aspiration	Turbocharged and Aftercooled
Flywheel housing	SAE 00
Flywheel	21"
Max. working ambient temperature	See derating curves
Max. working altitude	See derating curves
Front engine mounting brackets	Supplied mounted
Rear engine mounting brackets	Supplied mounted

Lubrication system

Lubricating oil low pressure alarm sensor (LOP)	Supplied
Lowest oil pressure alarm (shutdown) (Bar)	N/A - In the ECU system
Lubricating oil pressure sensor for gauge supplied	N/A - In the ECU system
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	24 Vdc supplied and to be activated by genset control panel

Intercooling system

Intercooler type	Air to Water

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

Cooling system with standard radiator

Execution with radiator

System designed for ambient temperature up to (°C) [1] 50
Radiator with connecting parts supplied ..... Separate to be 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) 270

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) 140
Coolant high temperature alarm sensor (HWT) ..... Supplied
Coolant alarm (shutdown) temperature (°C) ..... N/A - In the ECU system
Coolant temperature sensor for gauge supplied ..... N/A - In the ECU system

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 the AOT value of 50°C for an engine tested at 100% of the ESP Power, reflecting temperature 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. The reference air restriction is equal to 50Pa. For the equivalent ATB (Air-to-Boil) performance in a customer or project basis, please consult Baudouin Application Engineering.

Fuel system

Governor ..... ECU

Governor steady state speed stability at constant load (ISO 8528-5 Class G3) ..... ≤ +/- 0.5 %

Fuel filter mounted type ..... Fine double type

Primary fuel filter / water separator ..... Supplied

Fuel filter(s) element(s) change interval ..... Every 500 running hours [1]

Fuel priming pump type ..... Electrical

Fuel cut off electrical valve ..... Not 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) 24

Starter power (kW) ..... 2 x 10

Battery charger current (A) 55

Engine electrical wiring ..... Supplied only for ECU connection

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