



Caterpillar 3512C Genset Package

Rated at 1476 bhp w/o Fan at 1200 rpm Petroleum Land Electric engine Prime Power Application

Standard Engine Consist:

AIR INLET SYSTEM

Aftercooler core, corrosion resistant Air cleaner, regular duty, with soot filter. Service indicators.

CONTROL SYSTEM

Caterpillar ADEM A3 ECM, LH. Requires 24V DC 10-amp continuous, 20-amp intermittent, clean electrical power.

COOLING SYSTEM

In order to ensure compliance in use, optional or customer-supplied radiators must be capable of rejecting enough heat to allow proper operation at worst case site conditions, and also must supply 122 deg F (50 deg C) SCAC cooling water to the aftercooler inlet, with an SCAC flow rate of at least 100 GPM (379 l/m) with an ambient temperature of 86 deg F (30 deg C) and at-site conditions (including altitude considerations). Maximum allowable SCAC flow rate is 115 GPM (435 l/m).

RADIATOR COOLED LAND BASED

Outlet controlled thermostat and housing. Jacket water pump, gear driven. Dual outlet. Aftercooler fresh water cooling pump (SCAC), gear driven centrifugal SCAC pump circuit contains a thermostat to keep the aftercooler coolant from falling below 30 deg C (85 F).

EXHAUST SYSTEM

Exhaust fittings, flexible, 305 mm (12 in). Adapter, 305 mm (12 in) to 356 mm (14 in). Exhaust flange, weldable, 356 mm (14 in). Exhaust manifolds, dry.





Dual turbochargers with w/c bearings.

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel, SAE No. 00 Flywheel housing, SAE No. 00 SAE standard rotation FUEL SYSTEM Fuel filter. Fuel transfer pump Flexible fuel lines

Fuel priming pump, LH Electronically-controlled unit injectors.

INSTRUMENTATION

Electronic instrument panel, LH. Analog gauges with digital display data for: Engine oil pressure gauge. Engine water temperature gauge. Fuel pressure gauge. System DC voltage gauge. Air inlet restriction gauge. Exhaust temperature (prior to turbochargers) gauge. Fuel filter differential pressure gauge. Oil filter differential pressure gauge. Service meter (digital display only). Tachometer (digital display only). Instantaneous fuel consumption (digital display only). Total fuel consumed (digital display only). Engine start-stop (off, auto start, manual start, cooldown timer).

LUBE SYSTEM

Crankcase breather Oil cooler Oil filter. Shallow oil pan Oil pan drain valve, 2" NPT female connection Lubricating oil, SAE 10W30, Caterpillar DEO (CG4) 643 L.

MOUNTING SYSTEM

Rails, mounting, floor type, 254 mm (10 in).



COPY

POWER TAKE-OFFS

Accessory drive. Lower LH front (available for PTO usage). Front housing, two-sided

PROTECTION SYSTEM

ADEM A3 ECM monitoring system provides engine de-ration, or shutdown strategies to protect against adverse operating conditions. Selected parameters are customer-programmable. Status available on engine mounted instrument panel and can be broadcast through the optional customer communications module or programmable relay control module(s). Intially set as follows:

Safety shutoff protection, electrical:

Oil pressure, water temperature, overspeed, crankcase pressure, aftercooler temperature. Includes air inlet shutoff, activated on overspeed or emergency stop.

Alarms, electrical:

ECM voltage, oil pressure, water temperature (low and high), overspeed, crankcase pressure, aftercooler temperature, low water level (sensor is optional attachment), air inlet restriction, exhaust stack temperature, filter differential pressure (oil and fuel).

Derate, electrical:

High water temperature, crankcase pressure, aftercooler temperature, air inlet restriction, altitude, exhaust temperature.

Emergency stop push button, located on instrument panel.

Alarm switches (oil pressure and water temperature), for connection to customer-supplied alarm panel. Unwired.

STARTING SYSTEM

Air starter from TDI, see below additional options included.

GENERAL

Paint, Caterpillar Yellow Vibration damper and guard Lifting eyes

ADDITIONAL CATERPILLAR Options included in guote

Water pump inlet connection Single water outlet Coolant level sensor







Primary fuel filter Fumes disposal Jacket water heater, dual 12kW Flexible coupling Coupling hub Charging alternator, 24v 60 amp Engine barring group

ADDITIONAL options, included in guote

Supply/Install Caterpillar Dynamic gas blending kit, Supply/install oil field skid GHT remote radiator electric drive as per separate specs and drawing, tube and grommet design Custom "I beam" oilfield skid Kato generator 1225 kw, 1750 kva, 600 volt motor 600 volt, 0.7 pf 60 hz 1200 rpm 2 bearing design Caterpillar ELC coolant, 2-205 liters shipped loose Assemble complete genset package SOS oil sampling valve **Remote shutoff** Load test complete genset Supply one Cat voltage regulator and harness (shipped loose) Check literature and ship loose parts Ship to Customer vard in *****

