

PRODUCT SPECIFICATIONS FOR C18 ACERT TIER 3

Power Range	469-1001 bhp (350-747 kW)
Speed Range	1800-2300 rpm
Emissions	EPA Tier 3 Commercial, IMO II, EU IW
Aspiration	TA, TTA
Bore	5.7 in
Stroke	7.2 in
Displacement	1106 in ³
Rotation from Flywheel End	Counterclockwise
Configuration	In-line 6, 4-Stroke-Cycle Diesel
Minimum Dry Weight	4000 lb
Minimum Length	73 in
Maximum Length	76 in
Minimum Height	47.2 in
Maximum Height	51.2 in
Minimum Width	44.6 in
Maximum Width	47.4 in

C18 ACERT TIER 3 STANDARD EQUIPMENT

AIR INLET SYSTEM

Separate circuit after-cooled (SCAC)
Open Crankcase Ventilation (OCV) system
Turbocharger, jacket water cooled
Turbocharger inlet, 152 mm (6 in) OD straight connection

COOLING SYSTEM

Separate Circuit After-Cooling (SCAC) for both HEX and Keel cooled engines
Engine JW and SCAC Shell & Tube Heat Exchangers for HEX cooled engines
SCAC pump, gear driven, for HEX cooled engines only
Jacket water pump, gear driven
Sea water pump, bronze impeller, gear driven
SCAC and JW shunt tanks for maintaining proper pump inlet pressures

EXHAUST SYSTEM

Water-cooled exhaust manifold & turbocharger
152 mm (6 in) round flanged outlet

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel Housing, SAE No. 0
Flywheel, 18 inch, 136 teeth
SAE standard rotation
SAE No. 1, Flywheel: 14 inch, 113 teeth

FUEL SYSTEM

Front service simplex fuel system
Fuel transfer pump, gear driven
Manual fuel priming pump
Hybrid fuel line design

LUBE SYSTEM

Front service simplex oil system
Center sump oil pan:
Front and top service oil filler locations

Front service dipstick

Oil pump, gear driven

MOUNTING SYSTEM

Front support - adjustable

POWER TAKE-OFFS

Poly-V groove for alternator drive

NOTE: There are no standard power take-offs available

GENERAL

Front damper guard

Front service engine

Common electrical bonding point

Engine does not ship with zinc components

Engine is certified to D2/E2 emissions cycles

CERTIFIED TO EU STAGE IIIA AND CCNR STAGE II (E3 CYCLE) EMISSIONS STANDARDS.

CONTROL SYSTEM

Programmable low idle

WOSR (Wide Operating Speed Range) available for EPA Tier 3 - B and C Ratings

Adjustable High Idle (TEL) - EPA Tier 3 WOSR Ratings Only

Electronic diagnostics and fault logging

Engine and transmission monitoring (speed, temperature, pressure)

Electronic fuel/air ratio control

Engine Protection Mode for extended ambient conditions - EPA Tier 3 Ratings Only

Torque Limiting functionality for WOSR ratings only

70-pin customer connector

Three types of throttle inputs (primary/ secondary PWM, 0-5V, 4-20mA +/-)

C18 ACERT TIER 3 OPTIONAL EQUIPMENT EXHAUST SYSTEM

Dry Elbows

Water-Cooled Elbows

Flexible Fitting

Flange

Muffler

Muffler Spark Arresting

AIR INLET SYSTEM

Air Inlet Adapter

CHARGING SYSTEM

Battery Chargers

Charging Alternators

Alternator Mounting Group

Ammeter

CONTROL SYSTEM

MECP I

CATERPILLAR ALARM AND PROTECTION

COOLING SYSTEM

AUX EXPANSION TANK FLANGE KIT

FUEL SYSTEM

Duplex Fuel Filters

Flexible Fuel Lines

Fuel Cooler

Primary Fuel Filters

INSTRUMENTATION

Instrument Panels

OEM Wiring Harness

Engine to Engine Harness

Gauges

Transmission Sensors

Oil Level Sensor

LUBE SYSTEM

Duplex Oil Filters

Transmission Oil Cooler

Sump Pump

MOUNTING SYSTEM

Vibration Isolators

Front Support

Rear Support

POWER TAKE-OFFS

NOTE: PTO OPTIONS REQUIRE TORSIONAL VIBRATION ANALYSIS

Crankshaft Pulleys

Front Stub Shaft

Hydraulic Pump Drive Adapter

Front Enclosed Clutch

PROTECTION SYSTEM

Marine Classification Society and SOLAS

Marine Classification Society and Fire Resistance

STARTING SYSTEM

STARTING SYSTEM Electric Starting Motors - Single 24 Volt

Air Starting Motor

Air Start Accessories

Starting Aids - JW Heaters

Battery Sets - 24 Volt - Dry

PACKING

Engine Protective Cover

Storage Preservation

Export Packing

