

PRODUCT SPECIFICATIONS FOR C280-12 TIER 4

Power Range	4962-5444 bhp (3700-4060 bkW)
Speed Range	1000 rpm
Emissions	EPA Tier 4, IMO II
Aspiration	TTA
Bore	11 in
Stroke	11.8 in
Displacement	13546 in ³
Rotation from Flywheel End	Counterclockwise or clockwise
Configuration	Vee 12, 4-Stroke-Cycle Diesel
Minimum Dry Weight	57276 lb
Minimum Length	182 in
Maximum Length	182 in
Minimum Height	134 in
Maximum Height	134 in
Minimum Width	80 in
Maximum Width	80 in

C280-12 TIER 4 STANDARD EQUIPMENT

AIR INLET SYSTEM

Aftercooler, fresh water, corrosion resistant coated (air side)

Air inlet shutoff

Breather, crankcase, top-mounted

Turbocharger, engine oil lubricated

CONTROL SYSTEM

Dual Caterpillar A-III Electronic Engine Control Modules with Electronic Unit Injector Fuel System

Rigid Wiring Harness (10 amp 24volt power required to drive Electronic Engine Control Modules)

COOLING SYSTEM

Engine coolant water drains

EXHAUST SYSTEM

Dry, gas tight, exhaust manifold

FUEL SYSTEM

Distillate fuel (requires viscosity ranging from 1.4 cSt to 20 cSt at 38 degrees C)

Fuel transfer pump (mounted on left hand side)

Duplex fuel filters

Electronically Controlled Unit Injectors

LUBE SYSTEMS

Centrifugal oil filters with single shutoff. Service side engine mounted on cylinder block inspection covers. Includes installed oil lines and single shutoff valve. Filters centrifuge bypass oil from the main lubricating oil pump. Can be serviced with the engine running.

Oil filler and dipstick

Valve, oil pressure regulating

Valves, crankcase explosion relief

GENERAL

Paint, Caterpillar yellow

Pumps, gear driven: fuel, oil, jacket water, aftercooler/oil cooler water

C280-12 TIER 4 OPTIONAL EQUIPMENT ENGINE APPLICATION/DESIGN CONTROL

Crankshaft Deflection Marks

Extra Mounting Feet

ENGINE PACKAGE DESCRIPTION

Front Auxiliary Drive

Stub Shaft Certification

AIR INLET SYSTEM

Air Cleaners

Air Cleaner options

COOLING SYSTEM

Auxiliary Water Pump

Jacket Water Heaters
Heat Recovery System
Heat Recovery Thermostats
De-Aerator
Connections for Driven Equipment
Cooling System Connection Groups

EXHAUST SYSTEM

Outlet Expander
Flexible Exhaust Fittings
Weld Flange

FUEL SYSTEM

Fuel Priming Pump
Duplex Primary Fuel Strainer
Fuel Systems Connections

LUBE SYSTEM

Oil Pan Drain Valve
Lube Connections
Lube Oil Heater

MARINE SOCIETY REQUIREMENTS

Spray Shielding

PROTECTION SYSTEM

Monitoring System
Turbocharger Speed Sensor
Cylinder Pressure Relief Valve
Oil Mist Detector

SPARE PARTS KITS

Intake and Air System
Basic Engine
Cylinder Head
Fuel System
Cooling System
Instrumentation
Cylinder Valve Kits

STARTING SYSTEM

Boost Control Valve, Pressure Reducing Valve

ENGINE TESTING

Basic System Testing
Special Witness Test
Customer Selected Test Points
Marine Limit Line Test
Propeller Demand Curve Test

SERVICE TOOLS/SHIP PROTECTION/FACTOR SUPPORT

Commissioning

Commissioning

Service Tools

Shipping Protection - Export Boxing

AID Emblem

Storage Preservation

