

# PRODUCT SPECIFICATIONS FOR C280-12

<b>Power Range</b>	4640-5096 bhp (3460-3800 bkW)
<b>Speed Range</b>	900 rpm
<b>Emissions</b>	IMO II
<b>Aspiration</b>	TTA
<b>Bore</b>	11 in
<b>Stroke</b>	11.8 in
<b>Displacement</b>	13546 in <sup>3</sup>
<b>Rotation from Flywheel End</b>	Counterclockwise or clockwise
<b>Configuration</b>	Vee 12, 4-Stroke-Cycle Diesel
<b>Dry Weight</b>	57276 lb
<b>Width</b>	80 in
<b>Length</b>	182 in
<b>Height</b>	134 in

## **C280-12 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 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  
Service Tools  
Shipping Protection - Export Boxing  
AID Emblem  
Storage Preservation



