Product Specifications For C18

Engine Specifications

Application	Workboat
Speed Range	1800 - 2100 rpm
Emissions	U.S. EPA Tier 3 Commercial, IMO II, EU Stage V, China II
Aspiration	Turbocharged - Aftercooled
Bore	5.7 in
Stroke	7.2 in
Displacement	1106 in³
Rotation from Flywheel End	Counterclockwise
Oil Change Interval	250 / 500
Refill Capacity	49 / 68 l
Configuration	In-line 6, 4-Stroke-Cycle Diesel
Cooling	Heat Exchanger or Keel Cooled
Governor	Electronic
Flywheel Housing	SAE No. 0 (136 teeth) or SAE No. 1 (113 teeth)

Dimensions & Weights

Minimum Dry Weight	4000 lb
Minimum Length	73 in
Minimum Height	47.2 in

Maximum Height	51.2 in
Minimum Width	44.6 in
Maximum Width	47.4 in

Power Rating

Power Range	454 - 1136 bhp (339 - 847 bkW)

C18 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
Air Start Accessories

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

SAE No. 0, Flywheel SAE. 18, 136 teeth
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: Deep 500 hour oil change interval, Shallow 250 hour oil change interval
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

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
70-pin customer connector
Three types of throttle inputs (primary/ secondary PWM, 0-5V, 4-20mA +/-

C18 Optional Equipment

EXHAUST SYSTEM

Dry Elbows
Water-Cooled Elbows
Flexible Fitting
Outlet 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
CAT Alarm and Protection

COOLING SYSTEM

Aux expansion tank flange kit
Exhaust Temp Sensor
Heat Exchanger Pressure Sensor

FUEL SYSTEM

Duplex Fuel Filters
Flexible Fuel Lines
Fuel Cooler
Fuel/Water Separator

INSTRUMENTATION

Instrument Panels
OEM Wiring Harness
Engine to Engine Harness
Transmission Sensors
Oil Level Sensor

Instrumentation

Digital Tachometer

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 vibrations analysis
Crankshaft Pulleys
Front Stub Shaft

Hydraulic Pump Drive Adapter
Front Enclosed Clutch

PROTECTION SYSTEM

Marine Classification Society and SOLAS

STARTING SYSTEM

Electric Starting Motors - Single 24 Volt
Starting Aids - JW Heater 120 / 240V
Single Electric 24V Starter
Battery Sets - 24 Volt - Dry
Single Air Starting Motor

PACKING

Engine Protective Cover
Storage Preservation
Export Packing