

Product Specifications For C15



Power Rating

Maximum Power	580 hp
Maximum Torque	1958 lb-ft @ 1400 rpm
Rated Speed	1800-2100 rpm
Minimum Power	475 hp

Emission Standards

Emissions	U.S. EPA Tier 4 Final
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General

Engine Configuration	In-Line 6
Bore	5.4 in
Stroke	6.7 in
Displacement	927.6 in³
Compression Ratio	17.0:1
Aspiration	Turbocharged-Aftercooled (TA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	DOC+DPF+SCR

Engine Dimensions - Approximate

Length	56.6 in
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Width	38.1 in
Height	49.1 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	3673 lb

Aftertreatment Dimensions

Length	45.4 in
Width	43.8 in
Height	25.7 in
Weight	600 lb

Aftertreatment Dimensions*

Diameter	14 in
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PETU Dimensions - Tier 4 Final Only

Length	33.6 in
Width	11.3 in
Height	21.7 in
Weight	42.8 lb
Volume Capacity	51.1 qt (US)

C15 Standard Equipment

Air Inlet System

Turbocharged
Air-to-Air Aftercooled
Mid-mount turbocharged system with front and rear exhaust configurations (Tier 4 Final, Stage IV)

Control System

Electronic control system
Over-foam wiring harness
Automatic altitude compensation
Power compensated for fuel temperature
Configurable software features
Engine monitoring system SAE J1939 broadcast and control
Integrated Electronic Control Unit (ECU)
Remote fan control

Cooling System

Thermostats and housing, vertical outlet
Centrifugal water pump
Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels And Flywheel Housing

Choice of SAE No. 0 or SAE No. 1 flywheel housing
Available SAE No. 1 power take off with optional SAE A, SAE B or SAE C power take off drives. Engine power can also be taken from the front of the engine with optional attachments. (Tier 4 Final, Stage IV).

Fuel System

MEUI injection
Primary fuel filter
Secondary fuel filters
Fuel transfer pump
Electronic fuel priming

Lube System

Open crankcase ventilation system
Oil cooler
Oil filler
Lube oil filter
Oil dipstick
Gear driven oil pump
Choice of front, rear or center sumps
Open crankcase ventilation system with fumes disposal (optional OCV filter system) (Tier 4 Final, Stage IV)

Power Take Off (PTO)

SAE A, SAE B or SAE C power take off (PTO) drives. Engine power can also be taken from the front of the engine on some applications.

General

Paint: Caterpillar yellow, with optional colors available at request

U.S. EPA Tier 4 Interim, EU Stage IIIB Aftertreatment / Clean Emissions Control Equipment

Cat Regeneration System

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)

NOx Reduction System (NRS)

Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet

Available in 12 volt or 24 volt systems

U.S. EPA Tier 4 Final, EU Stage IV Aftertreatment

Cat Regeneration System

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)

Aftertreatment Electronic Control Unit (ECU)

NOx Reduction System (NRS)

Pump Electronic Control Unit (PETU)

Selective Catalytic Reduction (SCR)

Available in 12V or 24V systems