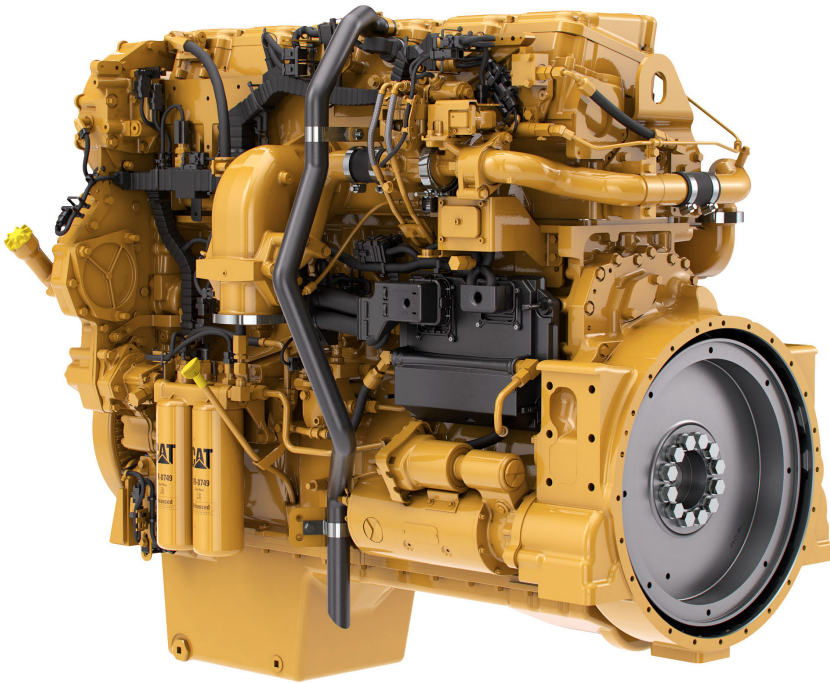


C18

Engine | 700 hp (522 kW) | 1752 lb-ft (2375 Nm)



Get legendary Cat reliability and durability with low operating costs using the Cat® C18 Diesel Engine.

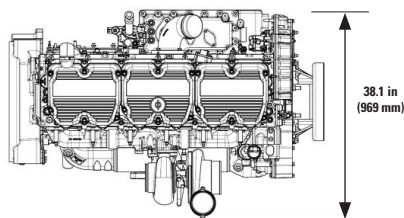
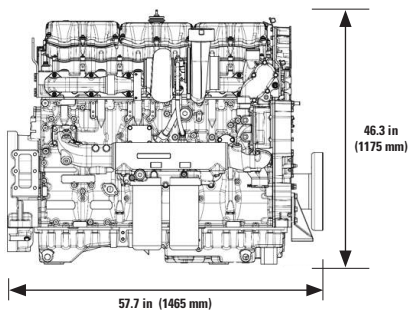
Based on decades of diesel engine innovation and expertise, these engines are designed for severe duty equipment and the most demanding environments and applications around the world.

More importantly, they are backed by the Cat® global dealer network ready to keep missions moving anywhere in the world.

Built to Power:

Heavy Infantry Fighting Vehicles (IFV)

Heavy Tactical Trucks



Specifications

Engine Configuration	In-line 6-Cylinder
Bore and Stroke (in/mm)	5.71 x 7.21 / 145 x 183
Displacement (in ³ /L)	1106 / 18.1
Aspiration	Turbocharged and Aftercooled
Cycle	4-Stroke Diesel
Combustion System	Direct Injection
Compression Ratio	16.5:1
Rotation from Flywheel End	Counterclockwise
Oil Capacity ² -refill (gal/L)	9 / 34
Cooling System ¹ (gal/L)	5.5 / 20.8
Dry Weight (lb/kg)	3,304 / 1499
Maximum Tilt Angle² of Operation	
Longitudinal (percent/degree)	60% / 31°
Transverse (percent/degree)	30% / 17°

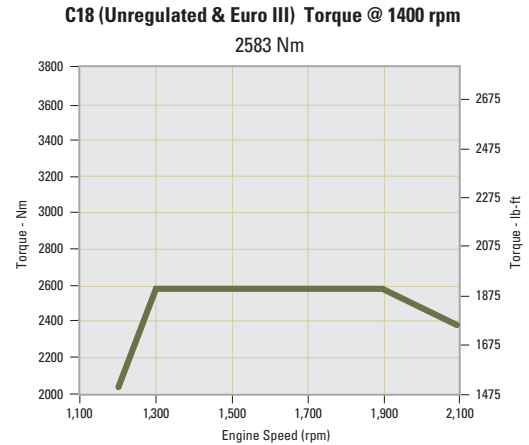
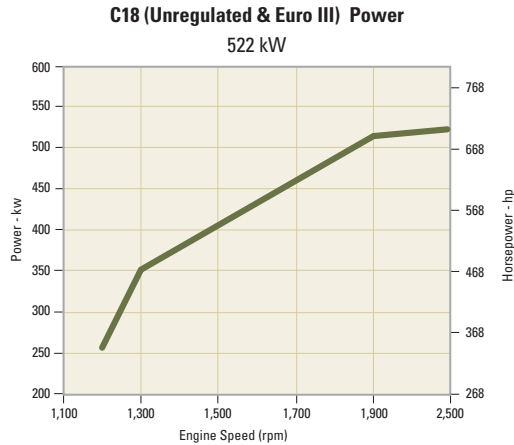
¹ Engine only. Capacity will vary with radiator size and coolant ancillaries

² Dependent upon type of oil sump



Shown with optional equipment.

Superior power at speed. (based on SAE J1995)



Power (hp/kW)	Torque (lb-ft/Nm)	Speed (rpm)	Torque (lb-ft/Nm)	Speed (rpm)	Emission Level
700 / 522	1,752 / 2375	2,100	1,905 / 2583	1,400	Unregulated & Euro III

Standard Equipment

- Cooling: gear-driven water pump, oil cooler
- Crankcase breather
- Electronic Control Module (ECM)
- Electronic Data Link, SAE J1922, J1939, J1587 (ATA)
- Electronically controlled, Mechanically Actuated Unit Injector (MEUITM) system
- Fuel - spin-on secondary filter, transfer pump, hand priming pump
- Governor - full-range electronic or min/max option for automatic transmissions
- Lifting eyes
- Lubrication: gear-driven pump, front or rear sump pan, full flow spin-on filter, oil filter, dipstick (oil level gauge)
- Turbocharger

Accessory Equipment

- Air compressor - gear driven; 445-878 L/min (15.7-31.0 cfm)
- Air conditioner compressor mounting
- Air inlet elbow
- Air, oil or water cooled electrical generator with belt or direct drive options

- Cat Compression Brake
- Dry sump pan and oil reservoir
- Dual rear PTO SAE No. 1 flywheel housing
- Front engine support
- Front PTO adapter
- Fuel priming pump
- Jacket water heater
- Single or dual starter motor (24V)
- Transmission coupling
- Turbocharger interface connections
- Wide range of hydraulic pumps; fixed and variable displacement, with belt or direct drive options

Electronic Features

- SAE J1939 compatible
- ECM storage of operational, maintenance, diagnostics codes and data
- Electronic self-diagnostics
- Customer selectable, re-programmable operational parameters:
 - 2-speed fast idle capabilities
 - Adjustable low idle rpm

- Cruise control
- Engine protection system: selectable warning, derate, or shutdown
- Fleet information software capability
- Idle shutdown timer and override
- Maintenance monitor [kilometers (miles) or hours]
- Vehicle speed [km/h (mph)] limiting and protection
- Programmable Power Take-Off (PTO) functions:
 - Adjustable minimum and maximum engine rpm speed
 - Adjustable ramp rate up or down between PTO and speed(s)
 - Adjustable rpm "bump" intervals
 - Adjustable speed control [km/h (mph)] of that vehicle while in PTO mode
 - Limit engine torque to driven equipment
- Cold weather start-up strategy and electronic idle control functions
- Compatible with Caterpillar Electronic Technician (ET)