

# Cat® CS64B

Smooth Drum Vibratory
Soil Compactor

The Cat® CS64B features a smooth drum and is ideally suited for granular soil applications.

### **Comfortable and Ergonomic Operator Station**

- Features pivoting seat with integrated multifunction LCD display and control console
- · Outstanding visibility to the front and rear of machine
- Low sound levels and vibration for greater operator comfort and productivity

### **Rear Vision Camera**

The rear vision camera enhances visibility for more complete operator control and safety

### **Exceptional Propel System**

- Built around the exclusive Cat dual pump propel system, two pumps provide separate dedicated flow to drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse
- Electronic propel control provides more precise machine control

### **Virtually Maintenance Free**

- Maintenance-free hitch bearings
- Extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs

### **Enhanced Compaction Performance**

- More weight at the drum and greater amplitude
- Auto-vibe function makes it easy to ensure consistent, high quality compaction

### **Technologies that Enhance Quality and Productivity**

- Measurement and documentation technologies help the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality
- Accelerometer-based (CMV) and exclusive Machine Drive Power (MDP) measurement technologies available

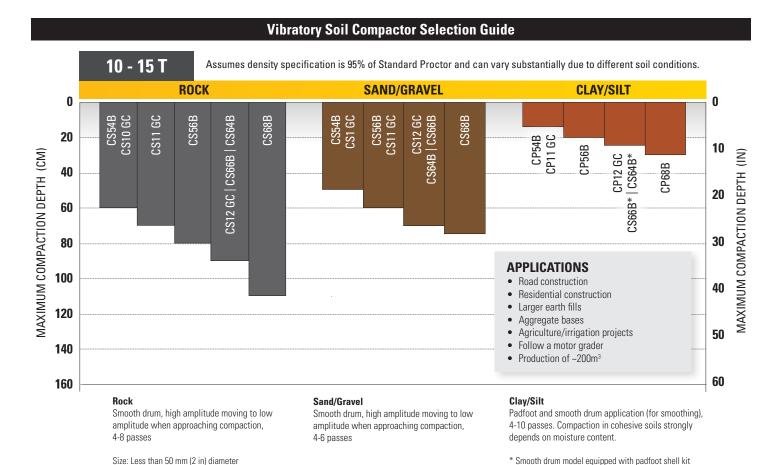


### **Standard and Optional Equipment**

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		
ROPS/FOPS Canopy with Handrails/ Guardrails, Floor Mat	✓	
Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓	
Rear Vision Camera with Color Touchscreen Display	✓	
Seat Belt	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
ROPS/FOPS Cab with Climate Control, Cloth Se	eat	✓
Internal Rear View Mirror		✓
External Rear View Mirrors		✓
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
VIBRATORY SYSTEM		
Smooth Drum	$\checkmark$	
Dual Amplitude, Single Frequency	✓	
Dual Pod-Style Eccentric Weight Housings	✓	
Auto-vibe Function	✓	
Front Adjustable Steel Scraper	✓	
Padfoot Shell Kit (oval or square pads available)		✓
Variable Frequency		✓
Dual Adjustable Steel Scrapers		✓
Dual Adjustable Polyurethane Scrapers		✓

	Standard	Optional
POWERTRAIN		
Cat® C4.4 Diesel Engine	✓	
Air Cleaner, Dual Element	✓	
Three-Speed Throttle Switch, Eco-mode, and Automatic Speed Control	✓	
Dual Propel Pumps; One for Drum Drive, One for Rear Axle	<b>√</b>	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	<b>√</b>	
Tilting Radiator/Hydraulic Oil Cooler	✓	
Dual Braking System	✓	
Two-speed Hydrostatic Transmission	✓	
Transmission Guard		✓
TECHNOLOGY		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		✓
Connect - Machine to Machine Communication	1	✓
ELECTRICAL		
24 volt Electrical System	$\checkmark$	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	✓	
OTHER		
Product Link™	$\checkmark$	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
S•O•S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil, and Coolant	<b>√</b>	
Factory Filled Bio Hydraulic Oil		✓
Upgraded Halogen Light Package		<b>√</b>
Rotating Amber Beacon		✓
Fuel Fill Access Door		✓



### **Technical Specifications**

Engine - Powertrain			
Engine Model	Cat C4.4		
Emissions	U.S. EPA Tier 4 Final EU Stage IV		
Engine Power ISO 14396:2002	97.9 kW	131.3 hp	
Gross Power SAE J1995:2014	99.0 kW	132.8 hp	
Net Power ISO 9249:2007*	81.9 kW	109.8 hp	
Net Power SAE J1349:2011*	80.0 kW	108.4 hp	
Displacement	4.4 L	268.5 in <sup>3</sup>	
Stroke	127 mm	5 in	
Bore	105 mm	4.1 in	
Max. Travel Speed (Forward or Reverse)	11.0 km/h	6.8 mph	
Theoretical Gradeability, with or without vibration**	50%		

Vibratory System Specifications			
Frequency			
Standard	30.5 Hz	1830 vpm	
During Eco-mode Operation	27.7 Hz	1664 vpm	
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm	
Nominal Amplitude @ 30.5 Hz (1830 vpm)			
High	1.9 mm	0.075 in	
Low	0.95 mm	0.037 in	
Centrifugal Force @ 30.5 Hz (1830 vpm)			
Maximum	234 kN	52,600 lb	
Minimum	133 kN	29,900 lb	
Static Linear Load			
w/ ROPS/FOPS cab	33.4 kg/cm	186.8 lb/in	

Weights***		
Operating Weight w/ ROPS/FOPS cab	12 355 kg	27,238 lb
w/ Padfoot Shell Kit	13 465 kg	29,674 lb
Weight at Drum w/ ROPS/FOPS cab	7120 kg	15,690 lb
w/ Padfoot Shell Kit	8525 kg	18,791 lb

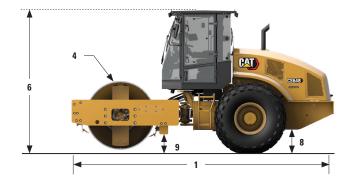
Service Refill Capacities		
Fuel Tank, total capacity	242 L	64 gal
Diesel Exhaust Fluid refill capacity	19 L	5 gal
Cooling System	27.4 L	7.2 gal
Engine Oil w/ Filter	8.8 L	2.3 gal
Eccentric Weight Housings (Combined)	26 L	6.9 gal
Axle and Final Drives	18 L	4.8 gal
Hydraulic Tank (service refill)	50 L	13.2 gal

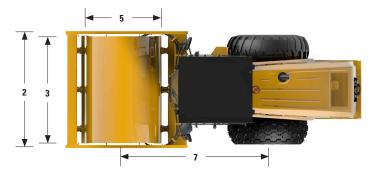
- \* Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.
- \*\* Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.
- \*\*\* Standard operating weight considers full fuel tank, 75 kg operator, traction tires, oval pad drum, and cab with A/C.

### **Technical Specifications**

	Dimensions		
1	Overall Length	5.9 m	19.2 ft
2	Overall Width	2.3 m	7.5 ft
3	Drum Width	2134 mm	84 in
4	Drum Shell Thickness	25 mm	1.0 in
5	Drum Diameter	1534 mm	60.4 ft
6	Maximum Overall Height	3.1 m	10.2 ft
7	Wheelbase	2.9 m	9.5 ft
8	Ground Clearance	442 mm	17.4 in
9	Curb Clearance	491 mm	19.3 in
	Inside Turning Radius	3.7 m	12.1 ft
	Hitch Articulation Angle	34°	
	Hitch Oscillation Angle	15	0

Optional Padfoot Shell Kit Specifications		
Number of Pads	120	
Pad Height, oval pads	89.8 mm	3.5 in
Pad Face Area, oval pads	63.5 cm <sup>2</sup>	9.8 in <sup>2</sup>
Pad Height, optional square pads	89.8 mm	3.5 in
Pad Face Area, optional square pads	105.7 cm <sup>2</sup>	16.4 in <sup>2</sup>
Number of Chevrons	16	





### **Environmental Declaration**

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

#### **ENGINE**

- The Cat C4.4 is available in configurations that meet U.S. Tier 4 Final and EU Stage IV emissions standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - √ 20% biodiesel FAME (fatty acid methyl ester)\*
  - √ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

\*Engines with no aftertreatment devices can use higher blends, up to 20% biodiesel.

### **AIR CONDITIONING SYSTEM**

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg (1.8 lb) of refrigerant, which has a  ${\rm CO_2}$  equivalent of 1.144 metric tonnes (1.261 tons).

### **PAINT**

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
- Barium < 0.01%
- Cadmium < 0.01%
- Chromium < 0.01%
- Lead < 0.01%</p>

#### **SOUND PERFORMANCE**

With cooling fan speed at maximum value:

Exterior Sound Power Level (ISO 6395:2008) - 108 dB(A)

With cooling fan speed at 70% of maximum value:

Operator Sound Pressure Level (ISO 6396:2008) - 79 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

#### **OILS AND FLUIDS**

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat BIO HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

#### **FEATURES AND TECHNOLOGY**

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
- Standard eco-mode limits engine RPM, lowering overall fuel consumption compared to high idle
- Optional compaction control reduces unnecessary passes, contributing to lower overall fuel consumption
- Extended maintenance intervals reduce fluid and filter consumption
- Auto idle shutdown reduces unproductive hours and fuel burned
- Hydraulic on demand fan changes speed with temperature



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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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