



Ring Power Corporation
500 World Commerce Parkway
St. Augustine, FL 32092

Prepared For:
Florida Sheriff's Association

8/5/2020

Item #338: (1) NEW CATERPILLAR CS44 VIBRATORY ROLLER

CONTRACT DETAILS

Florida Sheriff's Association
Bid # FSA20-EQU18.0
Item #338: Group: ROLLER: Compaction Vibratory Roller, Single Drum and Options
Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

1. WEIGHT: a. Minimum operating weight with open rops 15,200 lbs. 2. DRUM/VIBRATORY SYSTEM: a. Maximum compaction shall not be less than 30,000 lbs. b. Drum shall have a compaction width of not less than 66" c. Drum shall be smooth and not be less than 48" in diameter d. Vibratory system shall be hydraulically driven and have two amplitude settings e. Drum shall be equipped with an adjustable cleaning device f. Drum and vibratory pack shall be isolated from the machine during normal operation 3. ENGINE/CAB: a. Turbocharged diesel engine, minimum 74 HP b. Operator station shall be mounted to the frame with rubber mounts to further isolate the operation and controls from machine vibration during operation c. Gauges or warning indicators for fuel level, engine oil, hydraulic oil and coolant temperature with an alert sounding device activated whenever a warning indicator is illuminated. d. A backup alarm shall emit an audible alarm whenever the propel lever is moved into reverse 4. TRAVEL SYSTEM: a. A machine must be hydrostatic driven for the rear axle and the drum drive motor 5. ELECTRICAL SYSTEM: a. 12 or 24 volt electric system b. Maintenance free battery supplying 750 cold cranking amps c. Wiring harness protected with nylon-braided wrap

BASE MACHINE

560-6336	CS44B VIBRATORY COMPACTOR DCA1
386-5361	CS44B VIBRATORY COMPACTOR
186-2340	TIRES, 14,9-24 BS 6PR
386-5323	OIL, HYDR, FACTORY FILLED
386-5324	FREQUENCY, FIXED
386-5390	CONTROL, BASIC
386-5571	ENGINE, TIER/STAGE 4 CERTIFIED
386-5602	NO BLADE
386-5603	SCRAPER, STEEL, FRONT
417-9445	PLATFORM, ROPS/FOPS

426-2675	SEAT, DELUXE CONTROL
454-5454	PRODUCT LINK, CELLULAR PL641
467-7329	INSTALLATION, ROPS/FOPS
477-9990	LANGUAGES, OPTION 1
554-1057	FILMS
386-5313	INSTRUCTIONS, NORTH AMERICAN
0P-1940	WINDSHIELD WASHER EMPTY
0P-4269	ANTIFREEZE, -13F
0P-4782	STORAGE PROTECTION
0P-3940	PROTECTION, CYLINDER ROD
0P-0996	MANUAL, ENGLISH
0P-1870	CERTIFICATE OF ORIGIN

Ring Power Corporation



Cat® CS44B

SMOOTH DRUM VIBRATORY SOIL COMPACTOR

FEATURES:

The Cat® CS44B 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 and vibration levels for greater operator comfort and productivity.
- **World-class 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.

- **Virtually maintenance free** due to maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.
- **Powerful Cat C3.4B Engine** meets US EPA Tier 4 Final and EU Stage IV emission standards.
- **Optional Cat Compaction Control** helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- **Compact, highly maneuverable and transportable.**

Specifications

Engine - Power Train

Engine Model	Cat C3.4B	
Global Emissions	US EPA Tier 4 Final EU Stage IV	
Gross Power ISO 14396	75 kW	100.6 hp
Displacement	3.4 L	207 in³
Stroke	110 mm	4.3 in
Bore	99 mm	3.9 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7.0 mph

Weights

Operating Weight w/ ROPS/FOPS Canopy	6943 kg	15,307 lb
Weight at Drum	3384 kg	7,460 lb
Operating Weight w/ ROPS/FOPS Cab	7210 kg	15,895 lb
Weight at Drum	3518 kg	7,756 lb
With Padfoot Shell Kit	+1031 kg	+2,273 lb
With Leveling Blade	+ 432 kg	+ 952 lb

Vibratory System Specifications

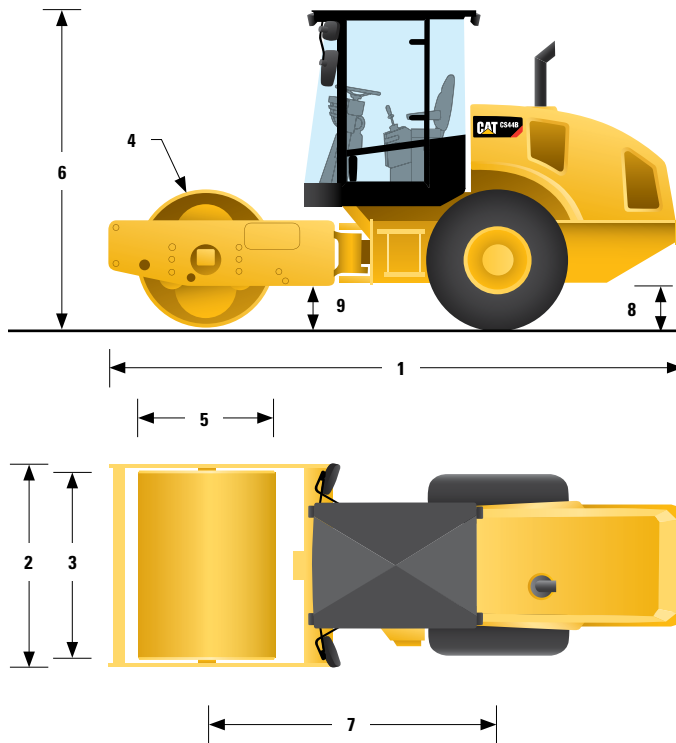
Frequency		
Standard	31.9 Hz	1914 vpm
During Eco-mode Operation	29 Hz	1744 vpm
Optional Variable Frequency	23.3-31.9 Hz	1400-1914 vpm
Nominal Amplitude @31.9 Hz (1914 vpm)		
High	1.67 mm	0.066 in
Low	0.84 mm	0.033 in
Centrifugal Force @ 31.9 Hz (1914 vpm)		
Maximum	133 kN	29,900 lb
Minimum	67 kN	15,000 lb
Static Linear Load		
w/ ROPS/FOPS	20.2 kg/cm	113 lbs/in
w/ ROPS/FOPS Cab	21 kg/cm	118 lbs/in

Service Refill Capacities

Fuel Tank, total capacity	150 L	40 gal
Diesel Exhaust Fluid refill	18.9 L	5 gal
Cooling System	15.8 L	4.2 gal
Engine Oil w/ Filter	9 L	2.4 gal
Eccentric Weight Housings	26 L	6.9 gal
Axle and Final Drives	14.6 L	3.9 gal
Hydraulic Tank (service refill)	26 L	6.9 gal



CS44B Vibratory Soil Compactor



Dimensions

1 Overall Length	5.09 m	16.7 ft
w/ Optional Leveling Blade	5.62 m	18.44 ft
2 Overall Width	1.8 m	5.91 ft
w/ Optional Leveling Blade	2.12 m	6.95 ft
3 Drum Width	1676 mm	66 in
4 Drum Shell Thickness	25 mm	1 in
5 Drum Diameter	1221 mm	48.1 in
6 Overall Height		
-Cab	2.85 m	9.35 ft
-ROPS/FOPS	2.81 m	9.22 ft
7 Wheelbase	2.6 m	8.5 ft
8 Ground Clearance	411 mm	16.2 in
9 Curb Clearance	369 mm	14.5 in
Inside Turning Radius	3.05 m	10.0 ft
Hitch Articulation Angle	37°	
Hitch Oscillation Angle	15°	

Optional Padfoot Shell Kit Specifications

Number of Pads (oval or square)	98	
Pad Height, oval pads	89 mm	3.5 in
Pad Face Area, oval pads	63.8 cm ²	9.9 in ²
Pad Height, optional square pads	79.4 mm	3.13 in
Pad Face Area, optional square pads	95.5 cm ²	14.8 in ²
Number of Chevrons	14	

STANDARD EQUIPMENT Varies by market- contact your Dealer for specifics.

ELECTRICAL

- 12-volt Electrical System
- 120-ampere Alternator
- 1000 Cold-cranking Amps Battery Capacity

OPERATOR ENVIRONMENT

- ROPS/FOPS or ROPS/FOPS Cab - *Depends on market*
- Adjustable Seat with Integrated Console and LCD Display
- Multifunction LCD Display with gauges and/or audible warning alarm for: *Hydraulic oil temperature, Engine oil pressure, Engine coolant temperature, Alternator charge, Fuel level, Service hour meter, Engine RPM, Ground speed, Vibe frequency, Fuel rate, Air filter constriction, Engine load and Optional Cat Compaction Control*
- Adjustable Tilting Steering Column with Integrated Cup Holders
- Seat Belt
- Lockable Vandalism Guard for LCD Display *ROPS/FOPS models only*
- 12-volt Power Outlet
- Floor Mat
- Interior Rear View Mirror *ROPS/FOPS models only*
- Horn, Backup Alarm

POWER TRAIN

- Cat C3.4B Engine
- Two-speed Throttle Switch, Eco-mode,
- Dual Propel Pumps; One for Drum Drive, One for Rear Axle
- Fuel Filter, Water Separator, Water Indicator
- Tilting Hydraulic Oil/Fuel Cooler
- Dual Braking System
- Two-speed Hydrostatic Transmission

VIBRATORY SYSTEM

- Smooth Drum
- Dual Amplitude, Single Frequency
- Pod-Style Eccentric Weight Housing
- Auto-vibe Function
- Front Adjustable Steel Scraper

OTHER

- Hydraulic Oil Level Sight Gauge
- Cat ToughGuard™ Hose
- S-O-S™ Sampling Valves, Engine Oil and Hydraulic Oil
- Universal Bumper

OPTIONAL EQUIPMENT

- ROPS/FOPS Cab with Climate Control
- Padfoot Shell Kit (Square or Oval pad shape)
- Scraper Shell Kit Ready
- Leveling Blade
- Variable Vibration Frequency
- Cat Compaction Control, CMV
- Beacon, Rotating
- Recording Module for Vibration Frequency
- Steel Rear-side Drum Scraper
- Bio-oil Factory Fill
- Sun Visor
- Cab Internal Roll-down Sun Screen
- Product Link™

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent 1.287 metric tonne.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Weights and dimensions listed are approximate. 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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Effective with sales to the first user on or after January 1, 2018

CATERPILLAR LIMITED WARRANTY

Earthmoving, Construction, Material Handling, Forestry and Paving Machines

Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following new products sold by it to be free from defects in material and workmanship:

- Earthmoving, construction, material handling, forestry and paving machines (except as listed below).
- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat® Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compacting plates used on hydraulic hammers are not warranted.

Additional warranties are applicable against breakage for certain Cat Ground Engaging Tools and for wear on all landfill compactor tips. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to:

- Cat Batteries
- Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators
- Cat Work Tools
- 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and 320 Excavators sold in India
- Prentice brand forestry machines
- Longwall mining machines
- 785, 789, 793, 794, 795, 797 Off-Highway Truck models sold in regions other than the Commonwealth of Independent States ("CIS")
- 24 Motor Grader models sold in regions other than the CIS
- 854, 992, 993, 994 Wheel Loader models sold in regions other than CIS
- Cat Utility Vehicles (UTV)
- Compact Construction Equipment including Compact Track & Multi Terrain Loaders, Mini Hydraulic Excavators, and Skid Steer Loaders sold in USA or Canada.

These products are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

Note:

- For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.
- For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Conveyors, Hard Rock Roof Supports: the warranty period is not to exceed 24 months from shipment of the last major component from the Caterpillar place of manufacture.

Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpillar

- Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.

Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect.

User Responsibilities

The user is responsible for:

- Providing proof of delivery date to the first user.
- Labor costs, except as stated under "Caterpillar Responsibilities."
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those that are considered usual and customary.
- Local taxes, if applicable.
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.
- Giving timely notice of a warrantable failure and promptly making the product available for repair.
- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.
- Allowing Caterpillar access to all electronically stored data.

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper storage or repair.
- Failures resulting from user's delay in making the product available after being notified of a potential product problem.
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes.

continued...

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629, telephone 1 (309) 675-1000, or go to URL www.cat.com, Find Your Dealer

Caterpillar's obligations under this Limited Warranty are subject to, and shall not apply in contravention of, the laws, rules, regulations, directives, ordinances, orders, or statutes of the United States, or of any other applicable jurisdiction, without recourse or liability with respect to Caterpillar.

A) For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN.

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

B) For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED. WITHOUT LIMITING THE FOREGOING PROVISIONS OF THIS PARAGRAPH, WHERE A PRODUCT IS SUPPLIED FOR BUSINESS PURPOSES, THE CONSUMER GUARANTEES UNDER THE CONSUMER GUARANTEES ACT 1993 (NZ) WILL NOT APPLY.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

IF THE MANDATORY RIGHTS MAKE CATERPILLAR LIABLE IN CONNECTION WITH SERVICES OR GOODS, THEN TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, THAT LIABILITY SHALL BE LIMITED AT CATERPILLAR'S OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN AND (b) IN THE CASE OF GOODS, THE REPAIR OR REPLACEMENT OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

C) For products supplied in Australia:

IF THE PRODUCTS TO WHICH THIS WARRANTY APPLIES ARE:

- I. PRODUCTS OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION; OR
- II. PRODUCTS THAT COST AUD 40,000 OR LESS,

WHERE THOSE PRODUCTS WERE NOT ACQUIRED FOR THE PURPOSE OF RE-SUPPLY OR FOR THE PURPOSE OF USING THEM UP OR TRANSFORMING THEM IN THE COURSE OF PRODUCTION OR MANUFACTURE OR IN THE COURSE OF REPAIRING OTHER GOODS OR FIXTURES, THEN THIS SECTION C APPLIES.

THE FOLLOWING MANDATORY TEXT IS INCLUDED PURSUANT TO THE AUSTRALIAN CONSUMER LAW AND INCLUDES REFERENCES TO RIGHTS THE USER MAY HAVE AGAINST THE DIRECT SUPPLIER OF THE PRODUCTS: OUR GOODS COME WITH GUARANTEES THAT CANNOT BE EXCLUDED UNDER THE AUSTRALIAN CONSUMER LAW. YOU ARE ENTITLED TO A REPLACEMENT OR REFUND FOR A MAJOR FAILURE AND COMPENSATION FOR ANY OTHER REASONABLY FORESEEABLE LOSS OR DAMAGE. YOU ARE ALSO ENTITLED TO HAVE THE GOODS REPAIRED OR REPLACED IF THE GOODS FAIL TO BE OF ACCEPTABLE QUALITY AND THE FAILURE DOES NOT AMOUNT TO A MAJOR FAILURE. THE INCLUSION OF THIS TEXT DOES NOT CONSTITUTE ANY REPRESENTATION OR ACCEPTANCE BY CATERPILLAR OF LIABILITY TO THE USER OR ANY OTHER PERSON IN ADDITION TO THAT WHICH CATERPILLAR MAY HAVE UNDER THE AUSTRALIAN CONSUMER LAW.

TO THE EXTENT THE PRODUCTS FALL WITHIN THIS SECTION C BUT ARE NOT OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION, CATERPILLAR LIMITS ITS LIABILITY TO THE EXTENT IT IS PERMITTED TO DO SO UNDER THE AUSTRALIAN CONSUMER LAW TO, AT ITS OPTION, THE REPAIR OR REPLACEMENT OF THE PRODUCTS, THE SUPPLY OF EQUIVALENT PRODUCTS, OR THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT PRODUCTS.

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TO THE EXTENT PERMISSIBLE BY LAW, THE TERMS SET OUT IN THE REMAINDER OF THIS WARRANTY DOCUMENT (INCLUDING SECTION B) CONTINUE TO APPLY TO PRODUCTS TO WHICH THIS SECTION C APPLIES.

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