

A yellow and black Caterpillar 322C skid steer loader is shown in a forest setting. The machine is positioned next to a large pile of cut logs. The background consists of tall, thin evergreen trees. The machine has "CAT" and "322C" branding on its side. A yellow banner in the top right corner contains the text "322C" and "Forest Machines", along with the "CAT" logo.

322C

Forest Machines

The Caterpillar logo, consisting of the word "CAT" in a bold, white, sans-serif font with a yellow triangle underneath the letter "A", set against a black background.

CAT[®]

Engine

Engine Model	Cat [®] 3126 TA	
Gross Power	130 kW	174 hp
Flywheel Power	121 kW	162 hp

322C Forest Machines

Improved performance and rugged durability combine to maximize your productivity.

Engine and Hydraulics

- ✓ Cat 3126 TA engine and hydraulics give the 322C FM exceptional power, efficiency and controllability unmatched in the industry for consistently high performance in all applications. **pg. 4**

Attachments

Forest Machines are designed for flexibility to help bring higher production and efficiency to your jobs. **pg. 5**

Operator Station

Roomy, quiet, automatically climate controlled cab has excellent sightlines to the work area. **pg. 6**

Serviceability

Simplified service and electronic diagnostics help to increase productivity. **pg. 10**

Complete Customer Support

Simplified service and electronic diagnostics help to increase productivity. **pg. 11**

Caterpillar quality from undercarriage to grapple. Rugged, state-of-the-art forest machines are assembled at the factory and are ready for customer attachments. Full Caterpillar warranty, Caterpillar parts support and fast, easy maintenance are all part of Caterpillar's commitment and service to the forestry industry.



Structures

Caterpillar® design and manufacturing techniques assure outstanding durability and service life. Rugged, reinforced carbody design stands up in the most demanding forest applications. **pg. 8**

Guarding

Caterpillar guarding helps to extend service life, reduces downtime and helps protect your forestry machine investment. **pg. 8**

Forest Machines

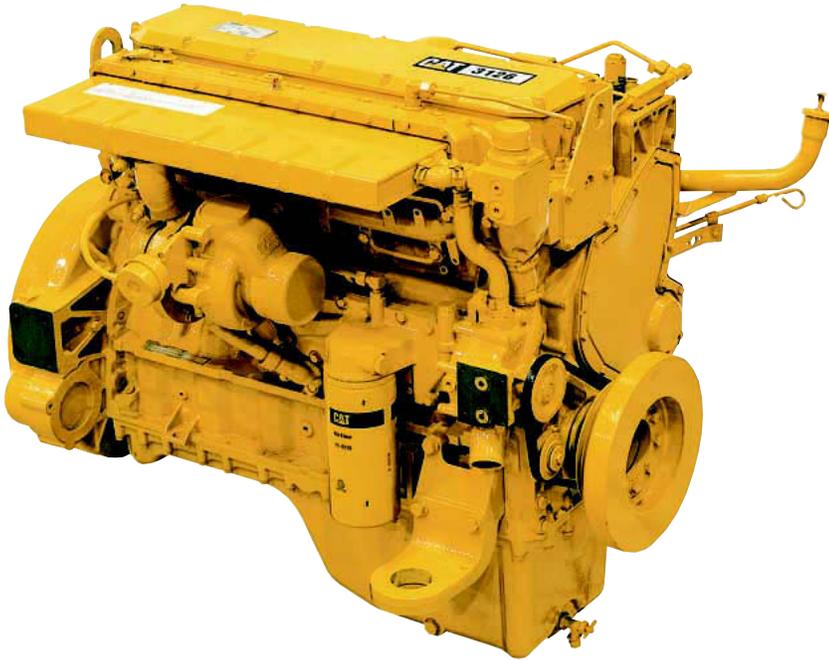
Designed and built to meet diverse forest application needs, the 322C FM comes ready to help improve your productivity. **pg. 9**



✓ *New Feature*

Engine and Hydraulics

Cat 3126 TA engine and hydraulics give the 322C FM exceptional power, efficiency and controllability unmatched in the industry for consistently high performance in all applications.



Engine. The six-cylinder turbocharged engine is built for power, reliability, economy and low emissions which will keep the machine up and running.

Automatic Engine Speed Control.

The three-stage, one-touch control maximizes fuel efficiency and reduces sound levels.

Low Sound, Low Vibration. The 3126 TA design improves operator comfort by reducing sound and vibration.

Hydraulic Cross Sensing System.

Improves productivity with faster implement speeds and quicker, stronger pivot turns.

Fine Swing Control. Standard fine swing control cushions swing start and stop for better implement control.

Hydraulic Cylinder Snubbers.

The hydraulic cylinder snubbers at rod-end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life, keeping the machine working longer.

Controllability. The hydraulic system offers precise control to the 322C FM, reducing operator fatigue, improving operator effectiveness and efficiency, which ultimately translates into enhanced performance.

Boom and Stick Regeneration Circuit.

Boom and stick regeneration circuit increases efficiency and reduces cycle times for higher productivity and lower operating costs.

Attachments

Forest Machines are designed for flexibility to help bring higher production and efficiency to your jobs.



Heel-Boom Grapples. Factory-installed and supported heel-boom grapples are matched to the factory logging fronts to increase production and reliability.

Cab Riser. Every forest machine is equipped with a cab riser, which helps increase operator effectiveness. Standard hydraulic tilt simplifies transportation to meet shipping height requirements. the General Forestry

Machines are built with the 457 mm (18 in) riser. The Log Loader Machines are built with the 1219 mm (48 in) riser.

Operator Station

Redesigned interior layout maximizes operator space and provides exceptional comfort.



Operator Station. The 322C FM operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design and highly efficient ventilation.

Standard Controller. Five hydraulic pump flows and pressure settings can be preset on the monitor, eliminating the need to adjust the hydraulics every time a tool is changed and instantly providing the operator with the correct amount of flow and pressure for each tool.

Redesigned Layout. Redesigned cab layout emphasizes simplicity and easy usage. Right-hand wall and console provide easy access to all switches, dials and controls.

Travel Controls. A large rubber-covered footrest at the side of the travel pedals allows the foot to easily grip the pedal. The travel lever stroke on the 322C FM have been enhanced to improve fine controllability, making the machine easier to operate.

Automatic Boom and Swing Priority Function. For simpler operation, work mode and power mode switches have been eliminated. Instead, the automatic boom and swing priority function selects the best mode, based on joystick movement.

Monitor. New, compact monitor enhances viewing while displaying a variety of easy to read and understand language-based information.

Implement Controls. Two joystick hand levers and buttons actuate boom, stick, heel, grapple, and swing (SAE pattern). (Road builder with bucket operates same as excavator)

Stick/Swing Controls (Left Joystick).

- Move forward and backward to move stick out and in.
- Move left and right to control direction of swing.
- Button on rear lower controls horn.
- Rear top inner button rotates grapple clockwise.
- Front button opens grapple.

Boom/Heel Controls (Right Joystick).

- Move forward and backward to lower and raise boom.
- Move right and left to move the heel boom up and down.
- Button on rear lower is one touch low idle.
- Rear top inner button rotates grapple counter clockwise.
- Front button closes grapple.

Other Features.

- Oblique movement of either lever operates two functions simultaneously.
- Manually applied lever on left console cuts off pilot pressure for joysticks and travel control.

Seat. A new seat with a two-tone color offers two types of cushions, soft and firm, for operator comfort. The reclining knob is located at the right-side of the seat for easier reclining adjustment.

Cab Exterior. Newly designed using asymmetrical steel tubing for improved resistance to fatigue and vibration.



Structures

Purpose-built for forest applications with reinforced carbody, rugged swing bearing, heavy doors and extra guarding.

Rugged main frame design maximizes durability.

- Outer frame utilizes curved side rails, which are die-formed for excellent uniformity and strength.
- Box-section channels improve upper frame rigidity under the cab.
- Inverted U-channels span the width of the main frame and are formed, rather than fabricated, for superior strength and reduced weight.
- Boom tower and main rails are constructed of solid, high-tensile strength, steel plates.

- Boom foot and engine mount areas are reinforced for additional strength.
- Sheet metal supporting structure is improved by integrating the mounting into the upper frame structure.

Carbody Design. Advanced, reinforced, purpose-built carbody design stands up in the toughest forest applications.

Carbody Structure. Wide, tall, and thick carbody structure provides operating stability and durability while improving operation's effectiveness.

- Upper structure weight and stresses are distributed evenly across the full length of the track roller frame.
- Smooth transitions and long welds help reduce stresses at the carbody-to-roller frame junctions for excellent durability.
- Robot welding helps ensure consistent, high-quality welds throughout the manufacturing process.

Guarding

Caterpillar guarding protects your forestry machine investment.

Shoe Support Guards. Standard full-length track shoe support guards help protect rollers and provide increased rigidity to track links in rough underfoot conditions.

Factory Forestry Cab. Factory forestry cab has options for windshield guard and window guards to meet local guarding requirements. The right side and rear windows are made from impact-resistant polycarbonate.

Heavy-Duty Access Doors. Heavy-duty access doors are standard on the 322C FM and are made from 6 mm (0.24 in), high-strength, low alloy steel. Positive locking latch stays closed in forestry applications. Hinges have larger diameter pins over standard doors. The smooth door profile enhances machine appearance.

Forest Machines

Designed and built to meet diverse forest application needs, the 322C FM comes ready to help improve your productivity.



The Caterpillar Heel-Type Loader Arrangements. The Caterpillar® heel-type loader arrangements fit a wide variety of log handling and loading applications in the woods and mill yards. Heel booms are especially well-suited for use with large diameter saw logs.

Caterpillar Roadbuilders. Caterpillar Roadbuilders can be equipped with buckets, thumbs, clamshells and clearing grapples to fit a wide range of forest road jobs. HD, LE, and HW undercarriages are also offered.

Applications Include: Moving right-of-way logs, stumping, pioneering, stripping organic material, excavating shot rock, truck loading, back sloping, ditching, finish grading and slash piling.

The Caterpillar 322C FM Delimeter Carrier. The Caterpillar 322C FM delimeter carrier can be fitted with a variety of delimiters.



The Caterpillar Log Loader Is Purpose Built. The Caterpillar log loader is purpose built for forest applications. Completely assembled, heel-type log loaders (including grapple) are available from the factory.

Serviceability

Simplified service and maintenance features save you time and money.

Extended Service Interval. The 322C FM service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

Radiator Compartment. The left rear service door allows easy access to the engine radiator and the oil cooler. The oil cooler swings out horizontally for easy cleaning. A reserve tank and drain cock are attached to the radiator for simplified maintenance.

Air Filter Compartment. The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

Ground Level Service. The design and layout of the 322C FM was made with the service technician in mind. Many service locations are easily accessible at ground level allowing critical maintenance to get done quickly and efficiently.

Pump Compartment. A service door on the right side of the upper structure allows ground-level access to the pump and pilot filter.

Capsule Filter. The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean.



Diagnostics and Monitoring. The 322C FM is equipped with S•O•SSM sampling ports and hydraulic test ports for the hydraulic system, engine oil and for coolant. A test connection for the Electronic Technician (ET) is located behind the cab.

Anti-skid “Punched-Star” plate.

The anti-skid “Punched-Star” plate covers top of storage box and upper structure to prevent slipping during maintenance. The plate can be removed for cleaning.

Grease Lubricated Track. Grease lubricated seals protect the track link and deliver long track link pin and bushing inner wear life.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What Production is needed? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training literature and other ideas to help you increase productivity.

Maintenance. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components.

Engine

Engine Model	Cat 3126 TA	
Gross Power	130 kW	174 hp
Flywheel Power	121 kW	162 hp
ISO 9249	121 kW	162 hp
J1349	120 kW	161 hp
EEC 80/1269	162 kW	121 hp
Bore	110 mm	4.3 in
Stroke	127 mm	5 in
Displacement	7.2 L	439.4 in ³

- The 322C meets worldwide Tier 1 emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating required below 2300 m (7500 ft) altitude.

Weights

General Forestry (HDLC)	27 176 kg	59,923 lb
General Forestry (HW)	29 656 kg	65,391 lb
Log Loader (U/U)	32 616 kg	71,918 lb
Log Loader (O/U)	32 905 kg	72,555 lb

Service Refill Capacities

Fuel Tank	400 L	105.7 gal
Cooling System	38 L	10 gal
Engine Oil	34 L	9 gal
Swing Drive	8 L	2.1 gal
Final Drive (each) – High-Wide	257 L	67.9 gal
Final Drive (each) – HDLC	5 L	1.3 gal
Hydraulic System (including tank)	245 L	64.7 gal
Hydraulic Tank	257 L	67.9 gal

Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB88 ISO 10262

Sound Performance

Performance	ANSI/SAE	
• The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 74 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.		
• 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 noisy environment.		

Hydraulic System

Main Implement System – Maximum Flow (2x)	220 L/min	58.1 gal/min
Max. pressure – Implements	34 300 kPa	4980 psi
Max. pressure – Travel	34 300 kPa	4980 psi
Max. pressure – Swing	24 500 kPa	3553 psi
Pilot System – Maximum flow	36 L/min	9.5 gal/min
Pilot System – Maximum pressure	3920 kPa	568.4 psi

Excavator Linkage

Boom Cylinder – Bore	130 mm	5.12 in
Boom Cylinder – Stroke	1305 mm	51.4 in
Stick Cylinder – Bore	140 mm	5.51 in
Stick Cylinder – Stroke	1660 mm	65.4 in
S Family Bucket Cylinder – Bore	130 mm	5.12 in
S Family Bucket Cylinder – Stroke	1115 mm	43.9 in

Log Loader Linkage

Boom Cylinder – Bore	140 mm	5.51 in
Boom Cylinder – Stroke	1185 mm	46.65 in
Stick Cylinder – Bore	170 mm	6.69 in
Stick Cylinder – Stroke	1680 mm	66.14 in
Under/Under Heel Cylinder – Bore	130 mm	5.12 in
Under/Under Heel Cylinder – Stroke	1156 mm	45.51 in
Over/Under Heel Cylinder – Bore	150 mm	5.91 in
Over/Under Heel Cylinder – Stroke	1470 mm	57.87 in

Drive – HD LC Undercarriage

Maximum Drawbar Pull	223 kN	50,112 lb
Maximum Travel Speed	5.5 kph	3.4 mph

Drive – HW Undercarriage

Maximum Drawbar Pull	247 kN	55,508 lb
Maximum Travel Speed	5.7 kph	3.5 mph

Swing Mechanism

Swing Torque	73.4 kN.m	54,137 lb ft
Swing Speed	10 RPM	

Track – Standard w/ HDLC Undercarriage

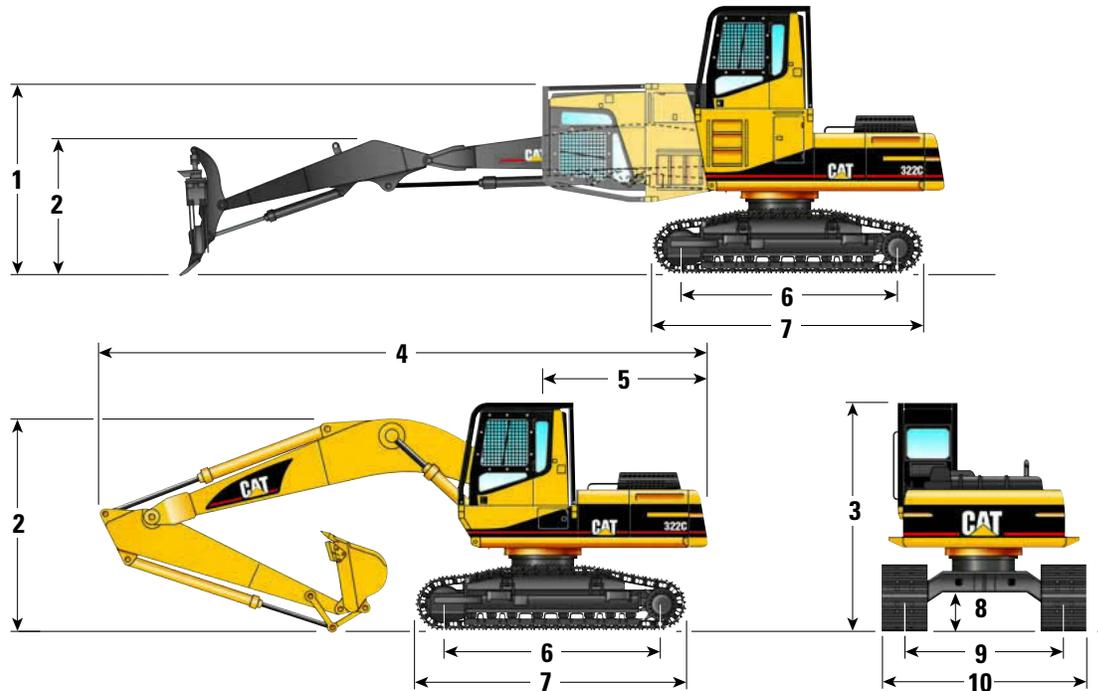
Standard – HDLC	700 mm	27.5 in
Optional – DG	600 mm	23.6 in
Optional – HDTG	800 mm	31.5 in

Track – Standard w/ HW Undercarriage

Standard – HW	700 mm	27.5 in
Optional – HW	600 mm	23.6 in
Optional – HDTG	800 mm	31.5 in

Dimensions

All dimensions are approximate.



322C General Forestry

	HD LC U/C	HW U/C
1 Shipping height. (All risers with cab tilted)	3300 mm (10' 10")	3565 mm (11' 8")
2 Boom height	3120 mm (10' 3")	3171 mm (10' 5")
3 Overall height	3682 mm (12' 1")	3959 mm (13' 0")
4 Shipping length*	9960 mm (32' 8")	9905 mm (32' 6")
5 Tail swing radius	2900 mm (9' 6")	2900 mm (9' 6")
6 Length to centers of rollers	3830 mm (12' 7")	3830 mm (12' 7")
7 Track length	4661 mm (15' 4")	4695 mm (15' 5")
8 Ground clearance	460 mm (1' 6")	705 mm (2' 4")
9 Track gauge	2590 mm (8' 6")	2921 mm (9' 7")
10 Transport width with 700 mm (27.5") shoes (DG)**	3290 mm (10' 10")	3621 mm (11' 11")

322C Log Loaders

	Under/Under	Over/Under
1 Shipping height. (All risers with cab tilted)	3243 mm (10' 8")	3243 mm (10' 8")
2 Boom height	2780 mm (9' 1")	2755 mm (9' 0")
3 Overall height	3959 mm (13' 0")	3959 mm (13' 0")
4 Shipping length*	14 105 mm (46' 3")	15 015 mm (49' 3")
5 Tail swing radius	2900 mm (9' 6")	2900 mm (9' 6")
6 Length to centers of rollers	3794 mm (12' 5")	3794 mm (12' 5")
7 Track length	4695 mm (15' 5")	4695 mm (15' 5")
8 Ground clearance	705 mm (2' 4")	705 mm (2' 4")
9 Track gauge	2921 mm (9' 7")	2921 mm (9' 7")
10 Transport width with 700 mm (27.5") shoes (DG)**	3621 mm (11' 11")	3621 mm (11' 11")

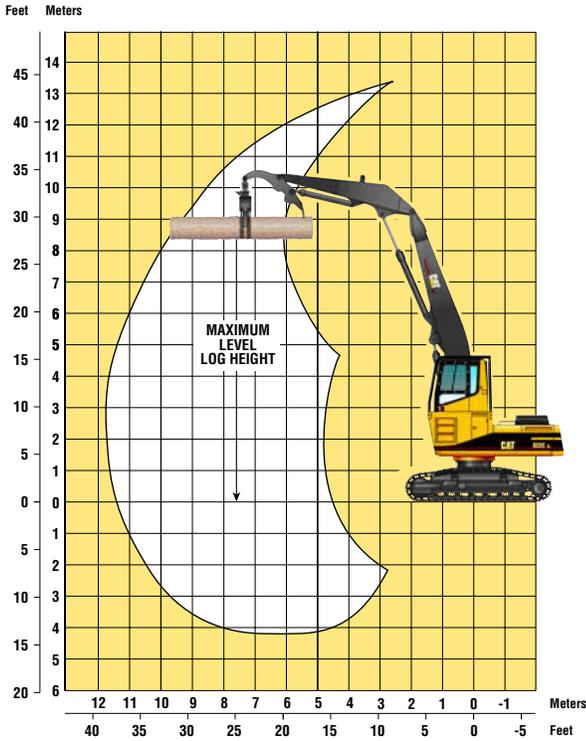
* Shipping length to pin on stick for Road Builder, to pin on grapple for Heel Boom configurations.

** Shipping width determined by width of upper structure and walkways.

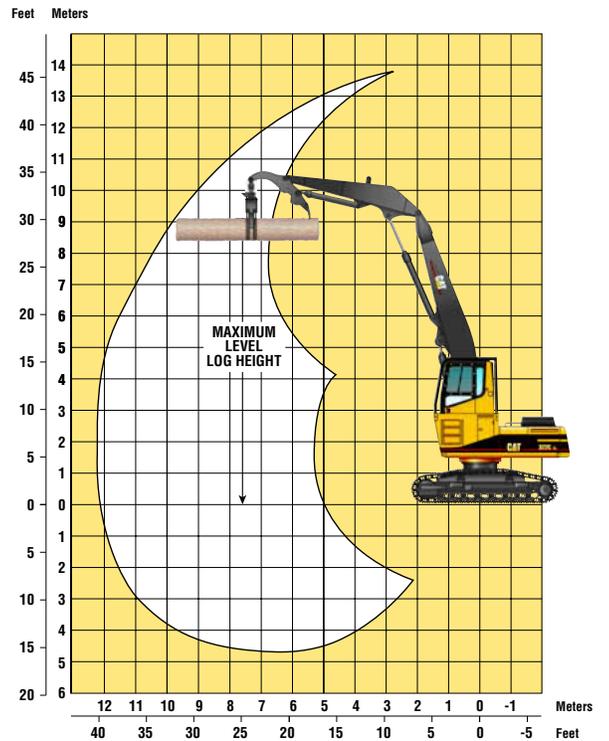
322C Working Ranges

Heel Boom (Under/Under, Over/Under), General Forestry (HD LC, HW U/C) ranges

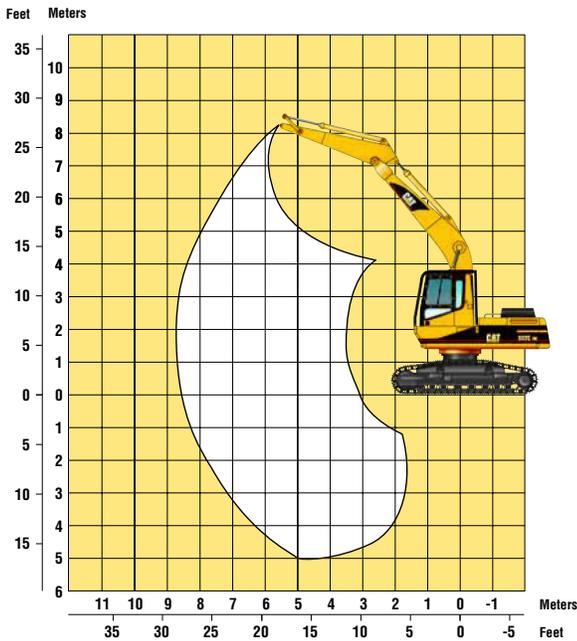
**Heel Boom
Under/Under**



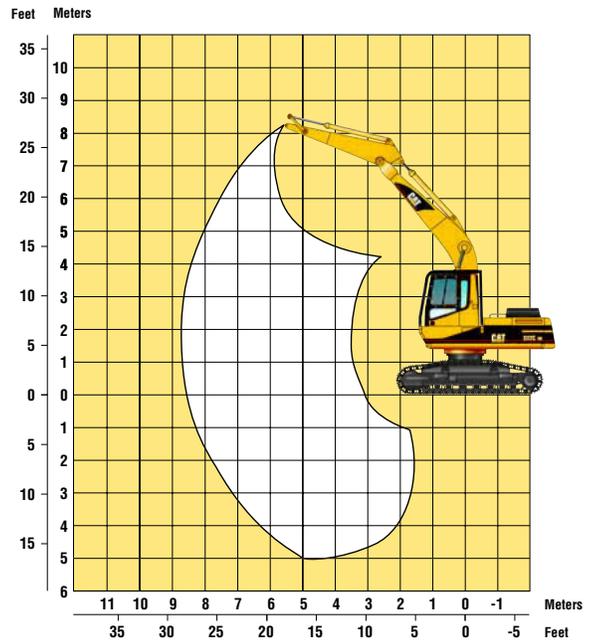
**Heel Boom
Over/Under**



**General Forestry
HD LC U/C, 5.9 m (19' 4") Boom
with 2.95S Stick**



**General Forestry
HW U/C, 5.9 m (19' 4") Boom
with 2.95S Stick**



322C FM Lift Capacities

CONFIGURATION – 5.9 m (19'4") Reach Boom, R2.95S Stick.

UNDERCARRIAGE – Heavy Duty LC
SHOES – 700 mm (28")

Load Point Height		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
7.5 m 25.0 ft	kg lb					5900* 13,200*	5900* 13,200*			5400* 11,900*	5400* 11,900*	6.40 20.63
6.0 m 20.0 ft	kg lb					6000* 13,000*	6000* 13,000*			5100* 11,200*	5100* 11,200*	7.49 24.41
4.5 m 15.0 ft	kg lb			7700* 16,700*	7700* 16,700*	6600* 14,400*	6600* 14,400*	6100* 13,300*	5100 10,900	5100* 11,100*	4400 9800	8.17 26.73
3.0 m 10.0 ft	kg lb			9900* 21,200*	9900* 21,200*	7600* 16,500*	6800 14,700	6500* 14,200*	4900 10,600	5200* 11,500*	4100 9000	8.53 27.96
1.5 m 5.0 ft	kg lb			11 800* 25,400*	9800 21,100	8600* 18,600*	6500 14,000	7000* 15,200*	4800 10,300	5600* 12,400*	3900 8700	8.61 28.26
†0.0 m †0.0 ft	kg lb			12 700* 27,400*	9500 20,400	9200* 20,000*	6300 13,600	7200 15,400	4700 10,100	6100 13,400	4000 8800	8.42 27.64
-1.5 m -5.0 ft	kg lb	10 200* 23,100*	10 200* 23,100*	12 600* 27,300*	9400 20,200	9400* 20,200*	6200 13,400	7100 15,300	4600 10,000	6600 14,500	4300 9500	7.95 26.05
-3.0 m -10.0 ft	kg lb	16 300* 35,400*	16 300* 35,400*	11 700* 25,300*	9500 20,300	8800* 18,900*	6300 13,500			7000* 15,500*	5000 11,100	7.13 23.28
-4.5 m -15.0 ft	kg lb	13 000* 28,600*	13 000* 28,600*	9600* 21,100*	9600* 21,100*					7100* 15,600*	6700 15,100	5.81 18.80

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 87% of hydraulic lifting capacity or 75% of tipping capacity.

† Ground line.

322C FM Lift Capacities

CONFIGURATION – 5.9 m (19'4") Reach Boom, R2.95S Stick.

UNDERCARRIAGE – Heavy Duty LC
SHOES – 700 mm (28")

Load Point Height		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
7.5 m 25.0 ft	kg lb					6800* 15,100*	6800* 15,100*			6200* 13,700*	6200* 13,700*	6.40 20.63
6.0 m 20.0 ft	kg lb					6900* 15,000*	6900* 15,000*			5800* 12,900*	5800* 12,900*	7.49 24.41
4.5 m 15.0 ft	kg lb			8900* 19,200*	8900* 19,200*	7600* 16,500*	7600* 16,500*	7000* 15,300*	6800 14,500	5800* 12,800*	5800* 12,800*	8.17 26.73
3.0 m 10.0 ft	kg lb			11 400* 24,400*	11 400* 24,400*	8700* 18,900*	8700* 18,900*	7500* 16,300*	6600 14,100	6000* 13,200*	5400 12,000	8.53 27.96
1.5 m 5.0 ft	kg lb			13 500* 29,200*	13 100 28,100	9900* 21,300*	8700 18,700	8100* 17,500*	6400 13,700	6500* 14,200*	5200 11,500	8.61 28.26
†0.0 m †0.0 ft	kg lb			14 600* 31,500*	12 600 27,200	10 600* 22,900*	8400 18,100	8400* 18,300*	6200 13,400	7200* 15,900*	5300 11,700	8.42 27.64
-1.5 m -5.0 ft	kg lb	11 700* 26,600*	11 700* 26,600*	14 500* 31,400*	12 500 26,900	10 800* 23,300*	8300 17,900	8400* 18,100*	6200 13,300	7800* 17,200*	5700 12,600	7.95 26.05
-3.0 m -10.0 ft	kg lb	18 800* 40,600*	18 800* 40,600*	13 500* 29,100*	12 600 27,100	10 100* 21,700*	8300 18,000			8100* 17,800*	6700 14,800	7.13 23.28
-4.5 m -15.0 ft	kg lb	15 000* 33,000*	15 000* 33,000*	11 000* 24,200*	11 000* 24,200*					8200* 18,000*	8200* 18,000*	5.81 18.80

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 100% of hydraulic lifting capacity or 100% of tipping capacity.

† Ground line.

322C FM Lift Capacities

CONFIGURATION – 5.9 m (19'4") Reach Boom, R2.95S Stick.

UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
7.5 m 25.0 ft	kg lb					5900* 13,000*	5900* 13,000*			5300* 11,700*	5300* 11,700*	6.64 21.44
6.0 m 20.0 ft	kg lb					6000* 13,200*	6000* 13,200*	5700*	5700*	5100* 11,200*	5100* 11,200*	7.64 24.91
4.5 m 15.0 ft	kg lb			8100* 17,400*	8100* 17,400*	6800* 14,700*	6800* 14,700*	6100* 13,400*	6100* 13,400*	5100* 11,200*	5100* 11,200*	8.26 27.02
3.0 m 10.0 ft	kg lb			10 300* 22,100*	10 300* 22,100*	7800* 16,800*	7800* 16,800*	6600* 14,400*	6100* 13,100	5300* 11,600*	5000* 11,100	8.56 28.08
1.5 m 5.0 ft	kg lb			12 000* 25,900*	12 000* 25,900*	8700* 18,900*	8100* 17,500	7100* 15,400*	6000	5700* 12,600*	4900 10,800	8.60 28.21
†0.0 m †0.0 ft	kg lb	6000*	6000*	12 700* 27,500*	12 100 26,100	9300* 20,100*	8000 17,100	7400* 16,000*	5900 12,600	6500* 14,200*	5100 11,100	8.36 27.43
-1.5 m -5.0 ft	kg lb	11 200* 25,400*	11 200* 25,400*	12 500* 27,100*	12 100 25,900	9300* 20,100*	7900 17,000	7200* 15,600*	5800 12,600	6800* 15,100*	5500 12,200	7.83 25.65
-3.0 m -10.0 ft	kg lb	15 900* 34,300*	15 900* 34,300*	11 400* 24,700*	11 400* 24,700*	8600* 18,400*	7900 17,100			7100* 15,600*	6500 14,500	6.93 22.63
-4.5 m -15.0 ft	kg lb			9000*	9000*					7100* 15,500*	7100* 15,500*	5.49 17.73

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 87% of hydraulic lifting capacity or 75% of tipping capacity.

† Ground line.

322C FM Lift Capacities

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UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
7.5 m 25.0 ft	kg lb					6700* 14,900*	6700* 14,900*			6100* 13,500*	6100* 13,500*	6.64 21.44
6.0 m 20.0 ft	kg lb					6900* 15,200*	6900* 15,200*	6500*	6500*	5800* 12,800*	5800* 12,800*	7.64 24.91
4.5 m 15.0 ft	kg lb			9300* 20,000*	9300* 20,000*	7800* 16,900*	7800* 16,900*	7100* 15,400*	7100* 15,400*	5800* 12,800*	5800* 12,800*	8.26 27.02
3.0 m 10.0 ft	kg lb			11 800* 25,400*	11 800* 25,400*	9000* 19,400*	9000* 19,400*	7600* 16,500*	7600* 16,500*	6100* 13,400*	6100* 13,400*	8.56 28.08
1.5 m 5.0 ft	kg lb			13 800* 29,800*	13 800* 29,800*	10 000* 21,700*	10 000* 21,700*	8100* 17,700*	7900 17,100	6600* 14,400*	6600* 14,400*	8.60 28.21
†0.0 m †0.0 ft	kg lb	6900*	6900*	14 600* 31,700*	14 600* 31,700*	10 700* 23,100*	10 600 22,800	8500* 18,400*	7800 16,800	7400* 16,400*	6700 14,800	8.36 27.43
-1.5 m -5.0 ft	kg lb	12 900* 29,200*	12 900* 29,200*	14 400* 31,200*	14 400* 31,200*	10 700* 23,100*	10 500 22,600	8300* 17,900*	7800 16,700	7900* 17,300*	7300 16,200	7.83 25.65
-3.0 m -10.0 ft	kg lb	18 200* 39,500*	18 200* 39,500*	13 200* 28,400*	13 200* 28,400*	9900* 21,200*	9900* 21,200*			8100* 17,900*	8100* 17,900*	6.93 22.63
-4.5 m -15.0 ft	kg lb			10 300*	10 300*					8100* 17,800*	8100* 17,800*	5.49 17.73

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 100% of hydraulic lifting capacity or 100% of tipping capacity.

† Ground line.

322C Over-Under Log Loader Lift Capacities

CONFIGURATION – 12.2 m (40') Over/Under Heel

UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
12.0 m 40.0 ft	kg lb			8900* 19,500*	8900* 19,500*									
10.5 m 35.0 ft	kg lb					7200* 15,700*	6800 14,400							
9.0 m 30.0 ft	kg lb					6900* 15,100*	6900 14,800	6200* 13,500*	4900 10,500					
7.5 m 25.0 ft	kg lb					6900* 15,100*	6900 14,700	6200* 13,400*	4900 10,600	4900 10,300	3600 7700			
6.0 m 20.0 ft	kg lb					7100* 15,500*	6700 14,500	6200* 13,500*	4900 10,500	4900 10,400	3600 7800	4000 8800	2900 6500	11.60 37.94
4.5 m 15.0 ft	kg lb			8900* 19,300*	8900* 19,300*	7400* 16,100*	6400 13,900	6300 13,500	4700 10,200	4800 10,300	3600 7700	3700 8300	2700 6000	12.01 39.35
3.0 m 10.0 ft	kg lb	12 600*	12 600*	9600* 20,800*	8800 19,000	7700* 16,800*	6100 13,300	6100 13,100	4500 9800	4700 10,100	3500 7500	3600* 7900*	2600 5800	12.22 40.08
1.5 m 5.0 ft	kg lb	13 800*	12 800	10 100* 21,900*	8200 17,700	7800 16,900	5800 12,500	5900 12,600	4300 9400	4600 9900	3400 7300	3000* 6700*	2600 5700	12.24 40.17
†0.0 m †0.0 ft	kg lb	13 700*	11 900	10 000* 21,700*	7700 16,600	7500 16,200	5500 11,900	5700 12,300	4200 9000	4500 9700	3300 7100			
-1.5 m -5.0 ft	kg lb	12 200* 24,200*	11 400 24,200*	9200* 20,000*	7300 15,900	7100* 15,300*	5300 11,500	5400* 11,800*	4100 8800	3900* 8300*	3200 7000			
-3.0 m -10.0 ft	kg lb	9700* 21,100*	9700* 21,100*	7500* 16,400*	7200 15,700	5800* 12,600*	5200 11,300	4300* 9100*	4000 8700	2400* 2400*				

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 87% of hydraulic lifting capacity or 75% of tipping capacity.

† Ground line.

322C Over-Under Log Loader Lift Capacities

CONFIGURATION – 12.2 m (40') Over/Under Heel

UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		Load at Maximum Reach		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft
12.0 m 40.0 ft	kg lb			10 200* 22,400*	10 200* 27,100									
10.5 m 35.0 ft	kg lb					8300* 18,100*	8300* 19,100							
9.0 m 30.0 ft	kg lb					8000* 17,400*	8000* 19,700	7100* 15,500*	6600 13,900					
7.5 m 25.0 ft	kg lb					8000* 17,300*	8000* 19,700	7100* 15,400*	6600 14,100	6200* 13,400*	4900 10,300			
6.0 m 20.0 ft	kg lb					8200* 17,800*	8200* 19,300	7100* 15,500*	6500 13,900	6200* 13,400*	4900 10,400	5200* 11,500*	3900 8600	11.60 37.94
4.5 m 15.0 ft	kg lb			10 200* 22,200*	10 200* 27,100	8500* 18,500*	8500* 18,600	7200* 15,700*	6300 13,600	6200* 13,300*	4800 10,200	4600* 10,300*	3600 8000	12.01 39.35
3.0 m 10.0 ft	kg lb	14 500*	14 500*	11 000* 23,900*	11 000* 25,400	8900* 19,300*	8200 17,700	7300* 15,900*	6000 13,100	6100* 13,200*	4600 10,000	4100* 9100*	3500 7700	12.22 40.08
1.5 m 5.0 ft	kg lb	15 800*	15 800*	11 600* 25,100*	10 900 23,600	9000* 19,700*	7700* 16,700	7300* 15,900*	5800 12,500	5900* 12,700*	4500 9700	3500* 7700*	3500 7700	12.24 40.17
†0.0 m †0.0 ft	kg lb	15 700*	15 700*	11 500* 25,000*	10 200 22,200	8800* 19,200*	7300 15,900	7000* 15,200*	5600 12,000	5400* 11,600*	4400 9500			
-1.5 m -5.0 ft	kg lb	14 000* 27,800*	14 000* 32,900	10 500* 22,900*	9800 21,200	8100* 17,600*	7100 15,300	6300* 13,500*	5400 11,700	4500* 9500*	4300 9300			
-3.0 m -10.0 ft	kg lb	11 100* 24,300*	11 100* 32,500	8700* 18,900*	8700* 20,900	6700* 14,500*	6700* 15,100	4900* 10,500*	4900* 11,600	2800* 2800*				

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 100% of hydraulic lifting capacity or 100% of tipping capacity.

† Ground line.

322C Under-Under Log Loader Lift Capacities

CONFIGURATION – 11.6 m (38') Under/Under Heel

UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height	4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		Load at Maximum Reach				
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft		
12.0 m 40.0 ft	kg lb	25,200*	25,200*												
10.5 m 35.0 ft	kg lb			8700* 19,000*	8700* 19,000*	7700* 16,900*	6500 13,700								
9.0 m 30.0 ft	kg lb			18,300*	18,300*	16,100*	14,500	6300 13,400	4800 10,100						
7.5 m 25.0 ft	kg lb			18,400*	18,400*	16,000*	14,600	13,800	10,500						
6.0 m 20.0 ft	kg lb			19,300*	19,300*	16,400*	14,400	13,800	10,500	4900 10,400	3700 7800	4500 9200	3300 7300	10.96 35.85	
4.5 m 15.0 ft	kg lb	9800* 22,000*	9800* 22,000*	20,600*	20,100	17,000*	13,900	13,600	10,300	4900 10,400	3600 7800	4200 9200	3100 6800	11.40 37.34	
3.0 m 10.0 ft	kg lb			22,000*	19,000	17,500*	13,400	13,200	10,000	4800 10,300	3600 7700	4000* 8800*	3000 6600	11.62 38.11	
1.5 m 5.0 ft	kg lb			22,700*	17,900	17,100	12,800	12,900	9700	4500 9700	4700 10,200	3500 7500	3400* 7600*	3000 6500	11.64 38.20
†0.0 m †0.0 ft	kg lb	21,900*	21,900*	22,000*	17,000	16,600	12,300	12,600	9400	4600* 9600*	3500 7400				
-1.5 m -5.0 ft	kg lb	10 200* 23,800*	10 200* 23,800*	19,600*	16,600	15,100*	12,000	11,400*	9300	4300 7000*	3500* 7000*				
-3.0 m -10.0 ft	kg lb	8900* 19,100*	8900* 19,100*	15,300*	15,300*	11,700*	11,700*	8000*	8000*						

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 87% of hydraulic lifting capacity or 75% of tipping capacity.

† Ground line.

322C Under-Under Log Loader Lift Capacities

CONFIGURATION – 11.6 m (38') Under/Under Heel

UNDERCARRIAGE – High Wide
SHOES – 700 mm (28")

Load Point Height	4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		Load at Maximum Reach			
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft	
12.0 m 40.0 ft	kg lb	29,000*	29,000*											
10.5 m 35.0 ft	kg lb			10 000* 21,900*	10 000* 21,900*	8800* 19,400*	8700 18,300							
9.0 m 30.0 ft	kg lb			21,000*	21,000*	18,500*	18,500*	7500* 16,400*	6400 13,500					
7.5 m 25.0 ft	kg lb			21,200*	21,200*	18,400*	18,400*	7400* 16,100*	6600 14,000					
6.0 m 20.0 ft	kg lb			22,100*	22,100*	18,800*	18,800*	16,200*	14,000	6500 13,600*	4900 10,400	5800* 12,800*	4400 9800	10.96 35.85
4.5 m 15.0 ft	kg lb	11 300* 25,300*	11 300* 25,300*	23,700*	23,700*	19,500*	18,600	16,400*	13,700	6300* 13,600*	4900 10,400	5200* 11,500*	4100 9100	11.40 37.34
3.0 m 10.0 ft	kg lb			25,300*	25,300*	20,200*	17,800	16,500*	13,300	6200 13,300*	4800 10,200	4600* 10,100*	4000 8700	11.62 38.11
1.5 m 5.0 ft	kg lb			26,100*	23,900	20,300*	17,100	16,200*	12,900	5900* 12,600*	4700 10,100	3900* 8700*	3900* 8700*	11.64 38.20
†0.0 m †0.0 ft	kg lb	25,200*	25,200*	25,300*	22,700	19,500*	16,400	15,200*	12,500	5300* 11,100*	4600 9900			
-1.5 m -5.0 ft	kg lb	11 700* 27,400*	11 700* 27,400*	22,500*	22,100	17,400*	16,000	13,000*	12,300*	4000* 8000*	4000* 8000*			
-3.0 m -10.0 ft	kg lb	10 200* 21,900*	10 200* 21,900*	17,600*	17,600*	13,500*	13,500*	9200*	9200*					

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads are at 100% of hydraulic lifting capacity or 100% of tipping capacity.

† Ground line.

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics

Alternator 80A

Automatic Engine Speed Control
Automatic Swing Brake

Cab

Forestry & cab guard with four lights
Polycarbonate windows
lower window fixed and front windshield meeting OSHA
Logging regulation 29 CFR 1910-266
Ashtray with cigar lighter
Coat hook
Drink holder
Floor mat
Heater and defroster
Horn
Language display monitor with gauges
Warning messages
Filter/fluid change information
Level check for hydraulic oil, engine oil and coolant
Working hour information
Clock
Light; interior
Literature holder
Positive filtered ventilation
Radio mounting
Retractable seat belt
Openable skylight with sunshade
Openable front windshield
Storage compartment
Suspension seat
Travel control pedals with removable hand levers
Hydraulic neutralizer lever for all controls

Power Train

Cat 3126 TA diesel engine
24V electric starting
Air intake heater
One-tough low idle
Straight line travel
Swing-out oil cooler
Two speed auto-shift travel
Water separator in fuel line

Undercarriage

Forestry – HDLC – 700 mm (28 in) D.G. shoes
Heavy Duty Track Rollers
Heavy-duty recoil
Intermediate-duty swivel guard
Recoil access cover guard
Motor and lines guarding
Idler and full length shoe support guards
Forestry, high-wide
High-wide carbody, with:
Heavy-duty swivel guard
Heavy-duty track rollers
Recoil access cover guard
Heavy-duty idler mounting
Motor and lines guarding
Idler and full length shoe support guards
Heavy duty recoil
Hydraulic track adjusters
Track-type undercarriage with grease lubricated seals
Other Standard Equipment
Automatic swing parking brake
Fine swing control
Auxiliary hydraulic valve (one)
Core hydraulic lines & controls With standard main valves on upper structures
Caterpillar one-key security system, Door locks and, Cap locks
Bottom guard with walkways
Heavy-duty side doors
Travel alarms
Corner Guard – Right Front

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifications.

Reach Boom

2.95 S Stick

S Family Bucket Linkage

Counterweight: 5218 Kg (11504 lb)

STD on Log Loader

Guards:

Cab windshield

LEXAN with 16 mm x 505 mm (5/8 in x 4 in) bars

51 mm x 51 mm (2 in x 2 in) mesh

152 mm x 203 mm (6 in x 8 in) bars

Cab side door:

51 mm x 51 mm (2 in x 2 in)

152 mm x 203 mm (6 in x 8 in)

Log Loader Linkage

Under/under with stick cylinder guard

Over/under with stick cylinder guard

Heel Gp

Under/under

Over/under

Grapples

1320 mm (52 in)

1520 mm (60 in)

Hydraulic Arrangements: For General Forestry

Rotating grapple

Thumb

Starting aid, cold weather

Cold weather

Ether

Track:

600 mm (24 in) double grouser shoes

800 mm (32 in) triple grouser shoes

Auxiliary Pump Driver

Auxiliary Lines For:

Reach boom

2.95 S Stick

Notes

322C Forest Machines

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

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