

Cat® 3054C Naturally Aspirated Diesel Engine (standard)				
Gross Power (SAE J1995) at 2200 rpm	57 kW/78 hp			
Net Power (ISO 9249) at 2200 rpm	56 kW/76 hp			
Cat® 3054C DIT Diesel Engine (optional)				
Gross Power (SAE J1995) at 2200 rpm	69 kW/94 hp			
Net Power (ISO 9249) at 2200 rpm	67 kW/91 hp			
Operating Weight	7210-10 200 kg			

Backhoe Digging Depth	
Standard Stick	
SAE Maximum	4164 mm
Maximum	4834 mm
Extendible Stick	
SAE Maximum	5266 mm
Maximum	5887 mm

Cat[®] 422E Backhoe Loader

The Caterpillar® E-Series Backhoe Loader – The Next Generation.

Loader Versatility

The Cat Single Tilt Loader.

- Divergent lift arms and low profile hood for maximum visibility to the tool
- Robust design reduces torsional flex when lifting heavy objects
- Return to Dig
- Excellent work tool versatility pg. 5

Operator Station

The E-Series Cab offers an improved operator environment, with increased visibility, ergonomics and comfort.

- Automotive style finish
- Stylish and functional curved glass maximises space within the cab
- Excellent 360° visibility
- Improved HVAC performance
- Suspension seat
- Low effort, well placed controls
- Plenty of personal storage space
- Exceptional operator comfort
- Cab and Canopy options
 - pg. 6

Backhoe Versatility and Performance

- Excavator style backhoe reaches over obstacles, for easier, faster truck loading in confined spaces
- Industry leading 205° High Rotation Linkage gives excellent clamping and straight wall trenching
- New design E-Stick with extending outer section ensures maximum wear protection
- Optional Quick Coupler for maximum versatility
 pg. 8

Caterpillar's 422E – The Next Generation

Developed with over 20 years experience in the Backhoe Loader industry, the 422E is designed to exceed customer expectations. More performance, versatility and comfort than ever before gives the 422E the edge needed in a harsh and competitive environment. Along with you, it's up to the challenge. See your Cat dealer and try out The Next Generation of Backhoe Loaders from Caterpillar.



Powertrain

The 422E now has 40 kph roading speed as standard. The proven Cat 3054C engine is available in 76 hp standard or 91 hp optional variants. Coupled with the Power-Shuttle transmission, it provides all the performance needed.

- Standard 3054C naturally aspirated engine (56 kW)
- Optional 3054C DIT engine (67 kW)
- Engines meet EU directive 97/68/EC Stage II emissions regulations
- Durable gear driven water pump.
- Parts commonality with other Cat machines
- Single fuel filter/water separator for lower servicing costs
- Single location access to service refill points
 pg. 11

Load Sensing, Flow-Sharing Hydraulic System

- Flow-sharing hydraulic valves give improved implement control exactly where it is needed
- Load-sensing hydraulics provide full implement force at any engine speed
- Cat exclusive high pressure XT hose
- O-ring face seals for reliability
 pg. 10

Serviceability

- Improved fully opening hood provides greater access to engine compartment
- Wear Pad adjustment design on Stabilizers and E-Stick for quick, easy maintenance

pg. 12

Other Special Features

- Optional All Wheel Drive for maximum rim-pull and improved loader performance
- Differential Lock for improved traction in poor conditions
- Stackable counterweights provides optimal machine balance
- 13% larger 145 litre fuel tank, for extended operating time
- Optional Ride Control System for improved ride stability
- All Wheel Braking feature, standard on the All Wheel Drive, provides increased braking performance pg. 4

Caterpillar Work Tools

Caterpillar work tools have been designed around the performance and demands of the whole E-Series range.

- Provides maximum versatility for all jobsite applications.
- All loader tools fully compatible with previous generation machines. Hoe tools are compatible with D-Series.
 pg. 9

Complete Customer Support

Your Caterpillar dealer offers a complete machine aftercare service, such as Customer Support Agreements, and can tailor your purchase to exactly suit your needs. Your dealer can also offer competitive finance packages to ensure that you can plan everything to enable the best return on your new asset. **pg. 13**



Features

Customer driven improvements are designed into the 422E.

Lower Operating Costs

The 422E has improved Stabilizer and E-Stick wear pad adjustment. External wear pad adjustment ensures easy maintenance of the Stabilizer and E-Stick, lowering operating costs. This equates to less machine downtime and more convenience for the operator.

All Wheel Braking

All Wheel Braking is standard on all AWD 422E Backhoe Loaders. When driving in two wheel drive, applying the brakes engages four wheel drive, maximizing brake effectiveness. Releasing the brakes returns the transmission to two wheel drive. This is particularly useful when roading. This effective system works well in hazardous, slippery or steep surfaces. Braking modes are controlled by the All Wheel Drive switch.

Improved Weight Distribution

The 422E has been designed with improved weight distribution. The new design coupled with a slightly longer wheel base ensures optimum balance and handling, particularly when roading. This is achieved with no loss in turning circle.

Pattern Changer

The 422E is offered with an optional pattern changer, allowing operators to choose between either ISO or X pattern. SAE control patterns are also available from the factory. This ensures the 422E will suit any type of operator.

145 Litre Fuel Tank

Responding to customer needs, Cat has enlarged the fuel tank by over 13% to 145 litres. Along with the efficient Cat engine and hydraulic system, this ensures longer periods between fill ups and less inconvenience.

Caterpillar Immobilizer System

Machine theft has serious repercussions for your business, such as loss of business, higher insurance costs and inconvenience. The Cat Immobilizer System is a diesel engine immobiliser system, designed to provide theft protection. The system meets Thatcham approval and PTAG attack time requirements and a premium discount may be available from certain Insurance companies (see your Cat dealer for details). The system uses the same key but has a one touch pad for easy disarming.

Electro-Deposition Coating

Your 422E has been protected by an undercoat of electro-deposited (E-Coat) primer, which completely seals each metallic component and offers a superior degree of protection from damage and corrosion. Coupled with the high solids polyurethane top coat, your 422E will stay looking good for longer, ensuring optimum resale value.





Loader

The 422E Single Tilt Loader now has even greater performance.



Improved Loader Performance

The 422E Single Tilt Loader is available with either a General Purpose or Multi Purpose bucket. As ever, the work tool visibility is excellent with the narrow sloping hood and divergent loader arms allowing a clear line of sight to the bucket edges.

The large torque tube provides torsional stiffness, needed when picking up irregular shaped heavy objects, in the loader bucket, or grading with the loader.

Ride Control

Caterpillar's proven Ride Control system is an option designed to reduce machine pitching and bouncing giving operators a smooth ride in all applications, including load and carry, roading, or simply moving around the jobsite. An accumulator acts as a shock absorber to reduce machine pitching and provide a smoother ride over rough terrain. The system is engaged by a switch on the front console.

Return to Dig

Your 422E is equipped with a Return To Dig system. This system reduces loading cycle times by bringing the loader bucket back to the dig position with an easy pull of the lever. By the time the loader bucket is at ground level, the bucket is angled correctly for the next load or cut.

Operator Station

The E-Series cab. Comfort, Visibility, Style – Designed In!



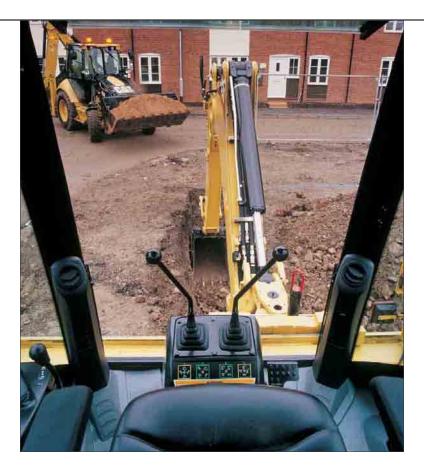
The 422E Cab is Designed with Today's Operator in Mind

The E-Series cab is designed to provide maximum comfort, ease of operation, and overall style for today's demanding operator. The design incorporates curved glass for improved interior space and visibility, and the cab is widened for better performance when turning from one mode of operation to the other. Cab comfort is enhanced with

the first-class Cat suspension seat, reducing fatigue.

Excellent ergonomics ensure that all controls are within easy reach of the operator, and tinted glass is standard in all cabs.

Other features such as remote stabiliser controls, large adjustable vents throughout the cab, and clear gauges provide the operator with an operating environment designed to maximize comfort and productivity.







Vibration

Caterpillar understands that backhoe loaders work in some of the harshest environments. By controlling normal machine vibrations caused by these harsh conditions, operator efficiency and productivity are improved. The 422E has features, both standard and optional, that reduce vibration.

Operator Controls

Optimal cab ergonomics are vital to assist the operator in their quest for best productivity. Pressure compensated, well placed levers ensure low efforts and good controllability.

HVAC System

The 422E benefits from an optional, more powerful air conditioning system (only on turbo model), which with improved ventilation flow to the operator, ensures the operator stays cool. The ventilation system also provides plenty of demisting/ defrosting/heating capability.

Work Lights

The 422E has adjustable front and rear work lights. This allows the operator to direct the light wherever needed, providing maximum illumination to the work area.

Cab Air Filter

The 422E has an easy access cab air filter, situated within the RH rear fender. The cab air intake is positioned on the B post, high up to minimise dust intake into the air filter.

Cab Mounts

The cab shell is attached to the frame with resilient mounts, reducing vibration and sound.

Cab and Canopy Options

The 422E is available in 2 cab and 2 canopy options, providing the best choices to suit individual operator needs. There is a cab-basic and cab-standard, plus a canopy standard and a canopy plus. See pg. 18 for details.

Cat Suspension Seat

The major interface between the machine and the operator is optimal, and the Cat suspension seat is an excellent asset to the new E-Series cab design.

Backhoe Performance

The E-Series Backhoe improves performance and serviceability.







Excavator-style Backhoe

The instantly recognizable Cat excavator boom has more than just good looks – it outperforms straight boom designs too. Whether close-up truck loading on a single road carriageway, or digging over obstacles such as walls, the excavator boom outperforms the rest. Combine this versatility with the powerful breakout forces, the controllability of the load-sensing, flow-sharing hydraulic system, and you have the best hoe in the industry. The boom is a narrow design, ensuring maximum visibility to the work tool.

Extendable Stick

The 422E is available with improved extendable stick. Redesigned with the sliding outer section, this design keeps the wear pads out of the dirt, extending adjustment intervals. When adjustment is necessary, the externally accessible wear pad design takes minutes to adjust, without the need to disassemble the E-Stick. The sliding outer E-Stick design allows excellent material clamping with the hoe bucket.

Slider Frame and Swing Frame

The 422E is designed to make necessary maintenance easy to perform. The E-Series cast slider frame has exterior lock clamps, with no backhoe disassembly needed when servicing. The Swing Frame/Boom Foot pins have replaceable bushings in the bores.

Caterpillar Cushion Swing Option

The 422E is available with Cat Cushion Swing, which enables very fast trenching by damping the boom oscillation down when returning to trench with the hoe.

Caterpillar Work Tools

Enhance the versatility of your 422E with a wide choice of tools on offer to suit your needs.

Backhoe Buckets

Cat offers a huge variety of hoe buckets to meet your requirements, including:

- Standard Duty Bucket. Used in easy to penetrate, low impact, moderately abrasive materials.
- Heavy Duty Bucket. Used for digging fragmented rock, frozen ground and highly abrasive materials.
- Extreme Service Bucket. Used in highly abrasive, high impact soil.
- High Capacity Bucket. Same durable construction as the HD bucket, but longer tip radius provides increased fill capacity.

Durability

Caterpillar backhoe buckets offer superior durability with the following features:

- Thick cutting edges.
- DRS (Diagonal Retention System) ensures easier replacement of pin on teeth and greater strength.
- Thick wear material on the side plates for better reinforcement and less wear.
- ID plates on all buckets showing part number, GET sizes and machine compatibility.

Sizes

Work tools are available in a full range of sizes, from a 9"/228 mm Cribbing bucket for cable trenching, a range of Ditch Cleaning buckets, right up to large capacity 36"/914 mm buckets for mass excavation.

Quick coupler

A Cat quick coupler is available for easy hoe bucket changes.

Hydro-mechanical Work Tools

Caterpillar has designed a range of hydromechanical tools carefully matched to the machine for optimum performance, including:

- Hydraulic Hammers
- Vibratory Compactor
- Cold Planer
- Auger

Please see your Cat dealer for the full range of tools available for particular machine combination.







Hydraulics

New flow-sharing hydraulics give the 422E even greater control.



Hydraulic Performance

It's rare that you'll be working at full production 100% of the time, so why should the machine be working flat out, using more fuel, making more noise, and increasing wear? The 422E has a load-sensing, closed center hydraulic system, which closely matches power and flow to the demand needed by the implements. So whether you're in full trenching mode, or delicately digging around services, you are in control. In applications such as loading and carrying, speed is important. The system will match the flow needed to get the job done quickly and efficiently. As there is minimal demand on the system unless needed, there are less parasitic hp losses and more power available for rimpull-meaning better loading and roading.

Flow Sharing Valves

The 422E also features flow-sharing hydraulic valves, ensuring that the correct flow of oil reaches the implement cylinders, providing greater control and eliminating oil starvation when operating multiple functions, such as grading with the backhoe.

Hardware

The 422E is equipped with a highly efficient variable displacement piston pump, Cat's XT hoses and O-ring face seal fittings, ensuring a robust system. XT hose is constructed from four over-lapping wire spiral wraps, ensuring excellent durability and resistance to damage from pressure spikes and hydraulic pulsing.

Power Train

422E has a 40 kph transmission as standard – less time on the road, more time on the job site.



Caterpillar 3054C Engine

The 422E is available with either the standard 3054C naturally aspirated 56 kW engine, or the optional 3054C Direct Injection Turbo unit producing 67 kW. The engines are 4 cylinder, 4 stroke direct injection diesel engines equipped with standard glow plug starting for optimal cold weather performance. This provides reliable starting performance down to -26°C. The engine features a reliable gear driven water pump, for improved durability. All Caterpillar backhoe engines conform to EU directive 97/68/EC Stage II emission regulations.

40 kph Power-Shuttle Transmission

The 422E comes equipped with 40 kph Power-Shuttle transmission, improving roading speed and providing better spacing between gear ratios. It utilizes a constant mesh, synchronized, four speed system. The forward/reverse lever on the steering column is placed for easy direction changes on the move, and the gear selection is from the floor mounted shift lever.

Axles and Brakes

The Caterpillar rear axle is an enclosed design with a wet multiplate Kevlar braking system. This system is oil immersed and self adjusting, and allows operation in the harshest environments. The system has dual brake pedals for split braking in tight corners.



High Ambient Cooling

The 422E is equipped with a High Ambient (HA) engine cooling package, allowing the machine to be operated in temperatures up to 50° C.

Air Filter

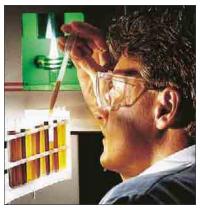
A dry type axial seal air cleaner with automatic integrated dust ejection provides more efficient pre-separation. Rolled air filters allow consistent linear air flow with reduced installation space.

Serviceability

Lower operating costs mean a better return on your asset.







Reduced Maintenance

The 422E is equipped with a flip open hood, allowing access to all check/fill points, air cleaner, washer bottles, visual indicators etc. The E-Series carries on the tradition with sealed for life axle oscillation, driveshaft universal joints, trunnions etc. Daily maintenance, which can be a chore for the busy operator, is kept to a minimum on the 422E.

Boom and Stick Design

The Boom and Stick design allows all wear adjustment to be done with Stick insitu, using a simple wedge adjustment mechanism – no dismantling to shim the wear pads. The Stabiliser legs are also externally adjustable, reducing machine down time and inconvenience.

Cat Filters

All Cat filters are vertically mounted for spill free servicing and reduced oil contamination. They are also low micron filters, filtering even the tiny particles from the oil and keeping the engine, transmission and hydraulic system running smoothly for years.

Scheduled Oil Sampling

Your Cat dealer will be able to provide the Caterpillar Scheduled Oil Sampling (S•O•SSM) service. This enables your dealer to analyze wear before problems arise, so that premature failure can be avoided, and corrective action can take place to reduce costs and downtime.

Complete Customer Support

Lower operating costs with your dealer's excellent services and options.

Customer Support Agreements (CSA's)

Your Cat dealer can offer a comprehensive range of CSA's which can be individually tailored to suit your finances and requirements. Dealers can offer a range of options from a full Preventative Maintenance with S•O•S package to a Parts Only CSA. Protect your valuable investment and know exactly what your monthly payments will be to help you run your business.

Finance

Have you explored the range of options available from your dealer to finance your machine? They can offer a selection of attractive packages tailored exactly to your requirements.

Machine Selection

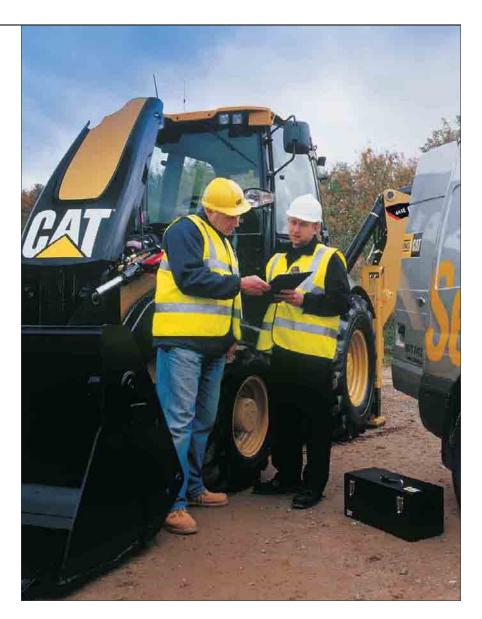
Your dealer can help guide you with your machine purchase decision, based on your requirements and help keep operating costs to a minimum. Is the machine you have in mind exactly the best for your job, or could other attachments be more suitable?

Operating Techniques

Your dealer can advise operating techniques for your machine which will minimize wear and tear, maximize productivity, and lower owning and operating costs.

Remanufactured components (Reman)

Sometimes, the most cost effective way to repair the machine is with remanufactured components. Reman components are rebuilt to original specification at Cat's Reman facility, using genuine parts and skilled technicians. Reman parts are guaranteed for 1 year.



Engine

Caterpillar 3054C naturally aspirated or turbocharged, direct injection, four cylinder diesel engine.

Rated Power (standard)	2200 rpm
Gross – SAE J1995	57 kW/78 hp
01038 - 3AE 31993	57 K W/ / 8 HP
Net – ISO 9249	56 kW/76 hp
Net - 80/1269/EEC	56 kW/76 hp
Rated Power (optional)	2200 rpm
Gross – SAE J1995	69 kW/94 hp
Net – ISO 9249	67 kW/91 hp
Net - 80/1269/EEC	67 kW/91 hp
Net Torque Rise at 1400 r	pm
56 kW/76 hp	24%
67 kW/91 hp	35%
Bore	105 mm
Stroke	127 mm
Displacement	4.4 liter

- All engine horsepower (hp) are metric including front page.
- Net power advertised is the power available at the fly wheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Can be operated at altitudesup to 600m (NA Engine) or 3000m for Turbo engine models.
- Meets Stage II EU Emission Directive 97/68/EC.

Features

- Three ring pistons made of lightweight silicon/aluminium alloy for strength and maximum thermal conductivity.
- Forged, chrome/molybdenum-steel crankshaft with nitro-carbonized journals.
- Front and rear crankshaft oil seals are 'lip' type Viton and PTFE designs featuring an integral dust lip.
- Heat resistant silicon-chrome steel intake and STELLITE faced exhaust valves are used for long engine life.
- Cylinder block is high strength, cast iron alloy of deep-skirt, monobloc design for increased strength and long life.

- Cylinder head is high strength, cast iron alloy construction with extra duty wall and head thickness. Intake and exhaust ports are precision cast to promote optimum gas flow.
- Direct injection fuel system provides accurate fuel delivery. Self priming electric lift pump for improved cold start capability. One filter fuel system for reduced maintenance costs.
- High low engine torque for better machine performance.
- Dry type, axial seal air cleaner with automatic, integrated dust ejection providing more efficient preseparation.
- Direct electric 12 volt starting and charging system with 750 CCA group 31 maintenance free battery.

Hydraulic System

Load-sensing, closed-center system.

Variable-flow, closed-center, load-sensing system provides full hydraulic force to cutting edges at all engine speeds. Provides low fuel consumption and low effort controls.

Туре

- J F -	
Closed-center	
Pump type	
Variable-flow, a	axial-piston
Pump capacity	125 lpm at 2200 rpm
System pressure	227 bar

Brakes

Fully enclosed, hydraulic, multiple discs.

Features

- Inboard oil-immersed, hydraulically actuated multiple Kevlar discs on final drive input shaft.
- Completely enclosed and sealed.
- Self-adjusting.
- Foot-operated brake pedals can be interlocked for roading.
- Parking/secondary brakes are independent of the service brake system. Parking brake is mechanically applied through a hand lever located in the right side console.

Meets ISO 3450:1996 requirements.

Axles

Choice of standard Two Wheel Drive or optional All Wheel Drive.

Features

- Heavy-duty rear axle with selfadjusting inboard brakes, differential lock and final drives.
- All Wheel Drive (AWD) is engaged by front console panel switch or by brake pedal during all-wheel-braking operation. AWD can be engaged on-the-go, under load, in any gear, forward or reverse. 2 WD and AWD have outer final drives for easy maintenance.
- Front axles are pendulum mounted and permanently sealed and lubricated, requiring no daily maintenance. Also features double-acting steering cylinder with 52° steering angle for increased manoeuvrability.

Steering

Full hydrostatic steering.

Full hydrostatic steering controlled by a hand-metering unit. Secondary steering system available to meet roading regulations in various countries and to meet ISO 5010.

Туре	Front wheel
Power Steering	Hydrostatic
Cylinder, one (1)	
double-acting	2WD/4WD
Bore	65 mm
Stroke	120 mm
Rod diameter	36 mm
Turning Circle	

Inner wheel not braked	2WD/4WD
Outside front wheels	8180 mm
Outside widest loader	
bucket	10 830 mm

Transmission

Caterpillar Power-Shuttle

The standard Power-Shuttle transmission provides four speed forward and reverse, full synchromesh in all gears. Constant mesh gears on all ratios permit on-the-go shifting of all gears, up or down. Neutral start provision prevents starting while shuttle is engaged. Torque convertor free-wheel clutch allows the convertor stator to free-wheel during high speed, low-load conditions, such as roading.

Transmission disconnect

Hand operated power disconnect for easy, on-the-go shifting and full engine rpm when in the loading cycle.

Forward/Reverse electric power shuttle

Conveniently placed, hand operated lever provides instant direction changes between forward and reverse through power hydraulic clutches.

Torque convertor

Single stage, 2.64 stall ratio

Travel Speeds

Travel speeds of All Wheel Drive backhoe loader at full throttle, when equipped with 16.9 x 28 rear tires.

Forward	kph
1st	6
2nd	10
3rd	20
4th	40
Reverse	
1st	6
2nd	10
3rd	20
4th	40

Operator Station

ROPS/FOPS is standard.

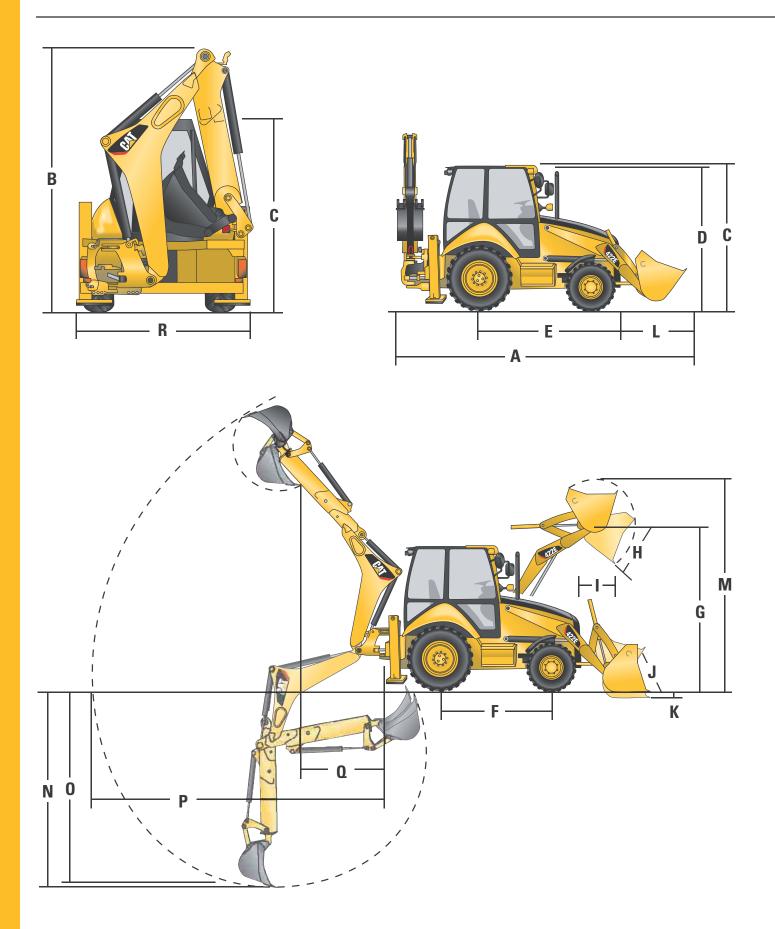
ROPS (Roll Over Protective Structure) offered by Caterpillar for this machine meets ROPS criteria ISO 3471:1994 and FOPS (Falling Objects Protective Structure) criteria ISO 3449:1992.

Service Refill Capacities

	Liters
Cooling System	
without heater	22.0
with heater	24.0
Fuel tank	145.0
Engine with oil filter	7.6
Transmission	
Power Shuttle 2WD	18.5
Power Shuttle AWD	18.5

	Liters
Rear Axle (Rigid/Steerable)	
Center Housing	16.5/16.0
Center Housing Additive	0.5
Wheel End/Final Drive	
(volume per side)	1.7
Front Axle AWD	
Center Housing	11.0
Wheel End/Final Drive	
(volume per side)	0.7
Hydraulic System	79/99
Hydraulic Tank	38

Dimensions – Single Tilt Loader



	General Purpose	Multi Purpose	Multi Purpose with forks
mm	5785	5729	5729
mm	5788	5732	5732
mm	5830	5801	5801
mm	5833	5804	5804
mm	3736	3736	3736
mm	3759	3759	3759
mm	2368	2368	2368
mm	2863	2863	2863
mm	2779	2779	2779
mm	459	470	470
mm	358	358	358
mm	2704	2704	2704
mm	1826	1826	1826
mm	1713	1713	1713
mm	2200	2200	2200
	mm mm mm mm mm mm mm mm mm mm mm	mm 5785 mm 5788 mm 5783 mm 5830 mm 5833 mm 3736 mm 3759 mm 2368 mm 2863 mm 2779 mm 358 mm 2704 mm 1826 mm 1713	mm 5785 5729 mm 5788 5732 mm 5788 5732 mm 5830 5801 mm 5833 5804 mm 3736 3736 mm 3759 3759 mm 2368 2368 mm 2863 2863 mm 2779 2779 mm 459 470 mm 358 358 mm 2704 2704 mm 1826 1826 mm 1713 1713

Dimensions and Performance – Loader Bucket		General Purpose	Multi Purpose	Multi Purpose with forks
Capacity (SAE rated)	m ³	1.0	1.03	1.03
Width	mm	2406	2406	2406
Lift capacity at maximum height	kg	2423	2305	2164
Breakout force	kN	39	39	37
Tipping load at bucket load point	kg	6153	6215	6050
G Maximum hinge pin height	mm	3314	3314	3314
H Dump angle at full height		44°	44°	44°
Dump height at maximum angle	mm	2621	2653	2653
Dump reach at maximum angle	mm	843	770	770
J Maximum bucket rollback at ground level		38°	39°	39°
K Digging depth	mm	91	118	118
Maximum grading angle		109°	112°	112°
Width of dozer cutting edge	mm	_	2406	2406
L Grill to bucket cutting edge, carry position	mm	1524	1495	1495
M Maximum operating height	mm	4211	4238	4691
Jaw open maximum	mm	-	790	790
Bucket jaw clamping force	kN	-	56	56
Weight (not including teeth)	kg	441	605	808

Dimensions and Performance – Backhoe			Extendi	Extendible Stick	
		Standard Stick	Retracted	Extended	
N Digging depth, SAE maximum	mm	4164	4206	5266	
Digging depth, maximum	mm	4834	4883	5887	
0 Digging depth, 610 mm flat bottom, SAE maximum	mm	4130	4172	5266	
Digging depth, 610 mm flat bottom, maximum	mm	4804	4846	5866	
P Reach from swing pivot at ground line	mm	5558	5598	6610	
Loading height	mm	3802	3743	4311	
Q Loading reach	mm	1620	1720	2623	
Swing arc		180°	180°	180°	
Bucket rotation		205°	205°	205°	
R Stabilizer width	mm	2368	2368	2368	
Bucket dig force	kN	52	51	51	
Stick dig force	kN	32	32	24	
Total side shift travel	mm	1258	1258	1258	

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Weights

Standard single tilt loader, with 1.0 m³ general purpose loader bucket, 610 mm standard duty backhoe bucket, 80 kg operator and a full fuel tank.

	kg
Operating weight (range)	7210-10200
Standard machine weight	7641
ROPS canopy	-260
Air conditioning	48
Multi-purpose bucket 1.03	m ³
With fold-over forks	870
Without fold-over forks	723
Extendible stick	
(excludes front counterweight	ght) 299
Counterweights	
Base	115
Stackables – One	235
Stackables – Max	485

Minimum Counterweight Recommendations:

Standard Stick (power train A	AWD)
General Purpose	250
Multi Purpose	Base
Multi purpose with	
fold-over forks	Base
Extendible Stick (power train	n AWD)
General Purpose	460
Multi Purpose	250
Multi Purpose with	
fold-over forks	115
Total gross vehicle weight	

not to exceed 10 200 kg.

Cab Features

	Base	Standard
RH fixed door with opening window	\checkmark	
RH opening door with opening window		\checkmark
LH opening door with opening window	\checkmark	\checkmark
2 rear side fixed windows	\checkmark	\checkmark
Basic air suspension seat	\checkmark	
Standard air suspension seat		\checkmark
4 working lights	\checkmark	
8 working lights		\checkmark
Floor mat	\checkmark	\checkmark
LH storage console		\checkmark
Fixed steering Column	\checkmark	
Tilt steering column		\checkmark
Exterior rear view mirror	\checkmark	\checkmark
Beacon socket (2)	\checkmark	\checkmark
Internal power socket		\checkmark
Radio ready headliner		\checkmark
Individual display gauges	\checkmark	\checkmark
Sun visor		\checkmark
Steering wheel knob		\checkmark
Vandal guard		\checkmark
Cab heater	\checkmark	\checkmark
Cab air conditioning*		optional
Seat belt (50 mm)	\checkmark	\checkmark
* AC only available on Turbo models		

* AC only available on Turbo models

Canopy Features

	Standard	Plus
No glazing	\checkmark	
Glazed front screen and wiper		\checkmark
LH storage console		\checkmark
4 working lights	\checkmark	
8 working lights		\checkmark
Basic air suspension seat	\checkmark	
Standard air suspension seat		\checkmark
Floor mat	\checkmark	\checkmark
Fixed steering Column	\checkmark	
Tilt steering column		\checkmark
Vandal guard		\checkmark
Rear view mirror	\checkmark	\checkmark
Individual display gauges	\checkmark	\checkmark
Seat belt (50 mm)	\checkmark	\checkmark

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Air cleaner, dry type, axial seal with precleaner and filter condition indicator Alternator, 120-amp, 12 volt Antifreeze (to -37°C) Audible system fault alarm Backhoe, 4164 mm dig depth, side-shift, excavator-style backhoe 2 lever control Battery, maintenance free, 750 CCA Boom, transport lock Brace, lift cylinder Brakes, Kevlar disc, oil disc Cable stabilizer controls Caterpillar 3054C naturally aspirated (56 kW) Coat hook Electro-hydraulic slide frame lock Engine enclosure Fan, cooling and fan guard Fast reversing shuttle, all gears Flashing hazard/signal lights Floor mat, rubber

Front axle, pendulum mount Front grill with bumpers Front headlights Front and rear windshield wipers Gauges: Coolant temperature, fuel level, tachometer, hour meter, torque convertor, oil temperature Ground line fuel fill with 145 liters capacity Grouser style stabilizer shoes High ambient cooler package Hydraulic oil cooler Indicators: Air cleaner service, brake on, engine coolant, hydraulic oil level sight gauge, oil pressure Instrument panel lights Key start/stop system with auxiliary position Left side door with lock Lifting eye, backhoe Lights, working (2 front, 2 rear) Load sensing, variable flow system with axial piston pump

Mirrors, external (2) Power receptacle, 12 V (2) Power steering, hydrostatic ROPS cab with heater, defroster, pressurizer and cab recirculating fan Seat belt, retractable (50 mm) Seat, air suspension with fabric or vinyl seat cover Spin-on fuel, engine, hydraulic and transmission oil filters Starting system, thermal aid Stop and tail lights (2) Storage compartment, internal Swing transport lock Tires (2 front, 2 rear) Torque convertor Throttles, hand and foot Transmission, four-speed synchromesh Transmission neutralizer switch Warning horn, front electric Water separator

Optional Equipment

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

Air conditioning Alarm, back up All Wheel Drive Attachments, front loader General purpose bucket 1.0 m³ Multi purpose bucket 1.03 m³ 1.03 m³ with forks Attachments, hoe work tools see pg. 9 Quick Coupler (mechanical) Caterpillar 3054C DIT engine (67 kW) Counterweights Bumper Base **Stackables** Cutting edge, bolt on Single piece Two piece Fenders, front, All Wheel Drive

Guards AWD driveshaft Teeth (GP/MP) Rear lights, roading Hydraulic valves, loader 3rd valve for GP/MP Hydraulic valves (auxiliary) Standard stick Extendible stick Hydraulic lines Hammer lines to stick Quick disconnects Lights Number plate, rear Roading Working, 8 lights

Mirror, exterior rearview, large Operators station Canopy Ride control Rotating beacon Seat belt 75 mm Stabilizer street pads Stick, extendible Tilt steering wheel Tool box, external Transport locks Vandalism protection Visor cab

422E Backhoe Loader

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

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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HEHB3123-2 (05/2007) hr

