



Unmatched Power, Performance & Productivity

MOTOR GRADERS | CRAWLER EXCAVATORS | BACKHOE LOADERS | CONCRETE BATCHING PLANTS | DRILL RIGS

BUILTBY
LISTENING
KNOWLEDGE
EXPERTISE

699BACKHOE LOADER

New Generation Backhoe Loaders from LeeBoy that embody LeeBoy's commitment to excellence in engineering and manufacturing. Powering them with powerful engines from Cummins provides world-class performance and complies with all relevant environmental regulations. Its low fuel consumption and maintenance costs make operating the backhoe loaders even more attractive. The ergonomically designed cabins provide perfect operating comfort and excellent visibility with tinted safety glass. The front and side control panels are all equipped with the latest technology to guide the operator. Equipped with systems to improve performance and productivity, these backhoe loaders are an ideal combination of concentrated power, safety and extreme user-friendliness



Model: Cummins 4BTAA 3.9-C

(BS III Certified) 99hp

Type: 4 - stroke, turbo charged

Cylinders: 4

Bore/ stroke: 102 mm/ 120 mm

Displacement: 3.9 L

Fuel injection: Rotary high pressure

Fuel: Diesel

Fuel filter: 3 microns & 10 micron +

moisture separator

Cooling: Liquid

Engine speeds: • Rated speed, 2200 rpm

• Low idle 850 -1000 rpm

High idle, no load 2350 - 2420 rpm

Horsepower@2200 rpm:

• Gross 99 hp (74 kW),

• Net 87 hp (65 kW)

Maximum torque @ 1500 rpm: 429 Nm

Torque rise at

rated speed: 34%

Radiator: Core size area 3971 cm² 50° Polymer fan style: 10 blade suction, Diameter: 550 mm, Ratio 1:1.1

Water pump style: Integral

Engine oil pump: Plate cooler with pressurized

under-piston nozzles

Pump operating angle ratings:

• Side-to-side Rated 35°

Fore and aft Rated 35°

Oil filtration: Replaceable, full-flow spin-on



POWER TRAIN

Transmission (standard):

4F-3R Manual Power Shift

Transmission, electrically actuated, twist grip on the left-hand side of the

steering column

Gear ratios: Forward/ Reverse

• 1st: 4.93 / 3.9

• 2nd: 2.68 / 2.1

• 3rd: 1.295 / 1.314

• 4th: 0.704

Travel speeds: Forward I Reverse (km/hr)

• 1st: 6.12 /7.7

• 2nd: 11.08 / 13.89

• 3rd: 22.21 / 21.91

• 4th: 37.71

Torque converter ratio: 2.63

Front 4WD/ rear axle:

• Differential ratio: 3.1

• Planetary hub ratio: 6.4

• Total reduction ratio: 19.84

Service brake: Individually applied, power assisted,

hydraulically actuated, maintenance-free,

self-adjusting, outboard mounted,

wet disc. 3 per side

Disc area:. 0.28 m²

Parking brake: Axle Mounted Spring

Applied Hydraulic Release (SAHR)

ELECTRICAL

Voltage: 12 Volts, negative ground

Alternator: 95 amp

Battery: 800 cca heavy duty gel-type battery

(can be tilted to 180° without spillage)

Lights: Halogen type combination headlights (2)

LED type worklights (6)

Combination type head lights (2)

Strobe lights - Amber LED type dual flash

HYDRAULICS

Pump: Variable displacement, Axial Piston Pump

Standard main relief pressure:

230 +/- 5 bar @ 140 LPM

Filtration: 10-micron, return line, full flow, condition

indicator light for filter.

Oil cooler: 4-section, Heavy-duty

Loader flow @ rated engine rpm:

140 lpm @ 2200 rpm

Loader control valve:

Two or three spool closed centre valve.
Two & three spool valves have a single lever
manual control for lift and tilt functions.
Three spool valves use a manual control for
the auxiliary function. The lift lever has a
positive hold 'Float' position and a

'return-to-dig' feature. System main relief valve is single stage with manual Backhoe

controls

Loader auxiliary hydraulics with full available

flow:140 lpm

Backhoe flow@ rated engine rpm:

140 lpm @ 2200 rpm

Pilot backhoe control valve:

Six, seven, or eight-spool sectional closed center control valve. post compensated, load independent proportional control valves with specific flows for each function. The post compensator ensures that oil is divided in preset ratios between functions

when simultaneously actuated

OPERATING WEIGHT: 7, 650 Kg

(Base weight calculated on standard machine configuration with standard loader bucket (2280 mm/1.1m³), standard backhoe bucket (800 mm / 0.27m³) fully fueled and operator.

Optional Attachments

Attachment	Total weight	In lieu of weight
Multi-purpose clamshell bucket	654 kg	+302 kg
Extended dipper	421 kg	+ 218 kg
600 mm backhoe bucket	156 kg	- 29 kg
400 mm backhoe bucket	136 kg	- 19 kg
300 mm backhoe bucket	112 kg	- 43 kg

OTHER SPECIFICATIONS

Front tyres: 2WD - 9 x 16, 16-ply rating,

4WD - 12.5 x 18,16-ply rating

Rear tyres: 2/4WD - 16.9 x 28, 12-ply rating **Other features:** • Lifting hooks on standard bucket

Mechanical joystick with self-leveling and

electric return-to-dig

 Automatic transmission de-clutch on braking on 1" & 2nd gear, Functions controlled by joystick lever are lift, dump,

horn & ride control (optional).

Turn circle diameter: (without brakes):

Outer tyre clearance: 8.4 m Outer bucket clearance: 11.1 m

Turn circle diameter: (with brakes):

Outer tyre clearance: 7.3 m Outer bucket clearance: 10.5 m

Loader standard bucket:

Width/ Capacity = 2280 mm/ 1.1 m³

Backhoe standard bucket:

Width/ Capacities = 800 mm/ 0.27 m³

Backhoe optional buckets:

• 300 mm/ 0.083 m³ • 400 mm/ 0.16 m³

• 600 mm/ 0.21 m³ • 700 mm/ 0.24 m³

CAB CONTROLS AND FEATURES

Main features:

- Ergonomically designed cabin
- Suspension seat with 180° swivel mechanical suspension which is adjustable to operator's body weight
- · Retractable seatbelt
- · Joystick control
- Fully opening rear window
- Front & rear windscreen washers/wipers
- · Adjustable steering column
- Rear view mirrors; Battery master switch;
- Tool box; Storage compartment:
- 4-Speaker CD Player, MP3 Player and Radio Receiver (With USB Compatibility).
- HVAC (Optional)

Gauges:

- Engine water temperature
- Transmission oil temperature
- Fuel level
- Tachometer / Hourmeter
- Speedometer

Warning lights:

- Air cleaner restriction
- Alternator
- Engine oil pressure low
- · Parking brake engagement
- High Engine water temperature

Audible alarms: Backup

Horn: Dual switched front

SERVICE CAPACITY

Fuel tank: 125 Litres

Engine oil

(with filters): 9.5 Litres
 Cooling system: 17 Litres
 Transmission: 16 Litres
 Hydraulic tank: 75 Litres
 Hydraulic system: 150 Litres

Axle oil: • Front axle (4WD) 7.8 Litres

Rear 16 Litres

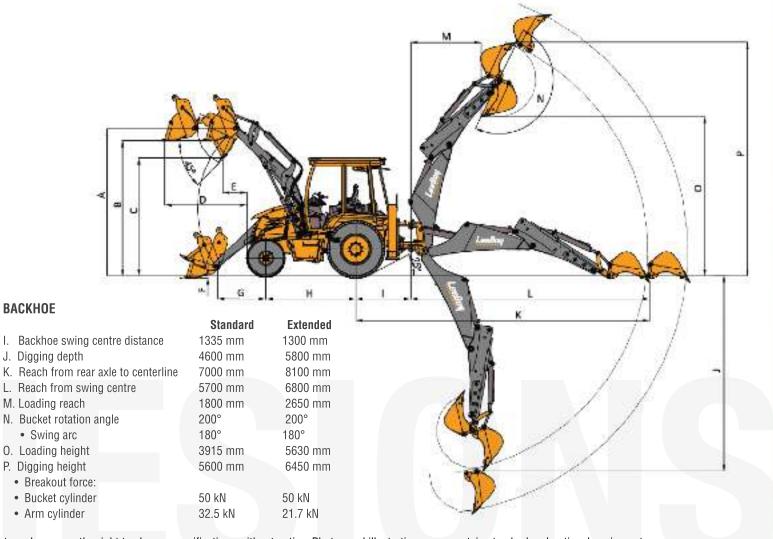
Brake oil: 2 Litres

SPECIFICATIONS

BACKHOE LOADER

LOADER

A. Hinge pin height	3560 mm
B. Load over height	3270 mm
C. Dump height	2720 mm
D. Maximum reach at full height	1018 mm
E. Dump reach at full height	566 mm
Dump angle at full height	48°
Bucket rollback at ground line	45°
Bucket rollback at SAE carry	45°
Bucket rollback at full height	
(Adjustable)	44.2°
F. Digging depth	100 mm
Width of bucket cutting edge	2280 mm
G. Distance between hinge pin and	
front-axle centre	1460 mm
Lift capacity to full height	3725 kgs
Breakout force: Loader	
• Lift	51 kN
• Bucket	60 kN
H. Wheelbase	2180 mm



LeeBoy makes continuous improvements to all its products and reserves the right to change specifications without notice. Photos and illustrations may contain standard and optional equipment.



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