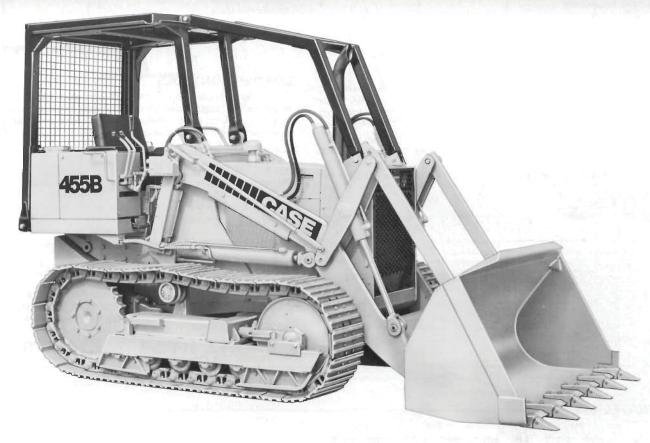
Case 455B Loader



CASE DIESEL ENGINE

Four-cylinder, 207 in³ (3392 cm³). Naturally aspirated 53 (39.5 kW) net horsepower, standard. Turbocharged 58 (43.3 kW) net horsepower, optional.

TORQUE CONVERTER

Increases crowd power and automatically adjusts to load demand

TRANSMISSION

Four speed powershift with torque converter

CONTROLLED TRANSMISSION STEERING OR BRAKE STEERING

Choice of power turns or brake turns for operator convenience and performance

IN-LINE LOADER LINKAGE

Excellent visibility of work area and bucket

SINGLE LEVER LOADER CONTROL

Low lever effort for easy operation and return-to-dig

SEALED TRACK

Extends pin and bushing life

Unit shown is equipped with non-standard items.

JI Case

A Tenneco Company

700 State Street Racine, WI 53404 U.S.A.

TENNECO

455B SPECIFICATIONS

ENGINE

Case Model G207D, 4-cycle diesel. Open chamber design. Uses No. 2 diesel fuel. Five main bearings. Positive pressure oil lubrication with full flow filtering and internal cooling. Aluminum alloy pistons with full skirt, three ring design. 12-volt direct electric starting. Dry type, dual element air cleaner with service indicator. Two stage full flow replaceable element fuel filters.

Nominal Rated Horsepower	Naturally Aspirated	Turbocharged
(1) Gross	58 @ 2000 rpm (43.3 kW @ 2000 r/min)	63 @ 2000 rpm (47.0 kW @ 2000 r/min)
(2) SAE net	53 @ 2000 rpm (39.5 kW @ 2000 r/min)	58 @ 2000 rpm (43.3 kW @ 2000 r/min)
Displacement	207 in ³ (3392 cm ³)	207 in ³ (3392 cm ³)
Number of cylinders	4	4
Bore and stroke	4" x 4.125" (101.6 mm x 105 mm)	4" x 4.125" (101.6 mm x 105 mm)
Compression ratio	17:1	16.5:1
Torque, Nominal Peak, lbs-ft (I	Nm)	
Gross	162 @ 1400 rpm (219 @ 1400 r/min)	

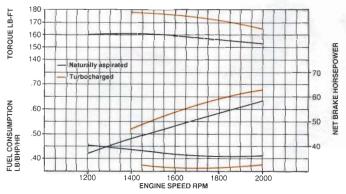
 SAE gross horsepower of engine as applied to this vehicle when equipped with fuel pump, oil pump, and water pump. Observed at 500 feet (152.4 m) elevation (Per SAE J270).

153 @ 1400 rpm

(207 @ 1400 r/min) (229 @ 1400 r/min)

169 @ 1400 rpm

(2) SAE net flywheel horsepower of engine as applied to this vehicle when fully equipped with fuel pump, oil pump, water pump, air cleaner, muffler, fan, radiator, and alternator (Per SAE J270).



TRAVEL SPEEDS

	1:	st	2n	d	3r	d	4t	h	
	mph	km/h	mph	km/h	mph	km/h	mph	km/h	
Forward	2.1	3.4	3.1	5.0	4.2	6.8	6.2	10.0	
Reverse	2.3	3.7	3.3	5.3	4.6	7.4	6.6	10.6	

TORQUE CONVERTER

Single stage, hydrokinetic type, 11" (279 mm) diameter with 2.1:1 ratio.

TRANSMISSION

Constant mesh, four speed powershift with dual range selector. Four speeds forward and four speeds reverse.

STEERING

Steering controlled by independent hydraulic clutches in transmission or by hydraulic actuated disc brakes. Three types of turns: power turns, gradual turns and brake turns.

FINAL DRIVES

Spur and bull gear type, single reduction. One-piece line-bored case.

BRAKES

Hydraulic actuated disc brakes controlled by two foot brake pedals that may be interlocked or used independently; and which neutralize power drive. Hand-operated over-center parking brake.

UNDERCARRIAGE

Sealed track, hydraulic track adjusters. Track rollers, carrier rollers and drum type idlers are permanently lubricated. Solid disc hunting tooth sprockets and three bar semi-grousers.

A CONTRACTOR OF THE CONTRACTOR	
Track frame Rigi	d
Track rollers (each side)	5
Carrier rollers (each side)	1
Track gauge 52" (1.32 m	1)
Length of track on ground	1)
Shoes per track	6
Track shoe widths available 12" (305 mm), 14" (356 mm	n)
Area, track on ground 12" (305 mm) shoe, 1632 in2 (1.05 m	2)
14" (356 mm) shoe, 1904 in ² (1.23 m	2)

LOADER CONTROLS

Single lever control for bucket lift and dump with positive-hold regenerative "float" position in lift circuit. Positive-hold "rollback" position in dump circuit. Return-to-dig. Hydra-Leveling loader with power linkage mounting of cylinders.

LOADER HYDRAULIC SYSTEM

Pump: gear type, front mounted, direct drive. 21 gpm @ 2000 rpm (80 lit/min @ 2000 r/min).

Control valve: two or three spool valve (depending on equipment). System relief pressure: 2200 psi (15 170 kPa)—naturally aspirated 2400 psi (16 550 kPa)—turbocharged

Hydraulic lines: steel tubing with flared fittings and wire-braid high pressure hose with crimped full flow fittings.

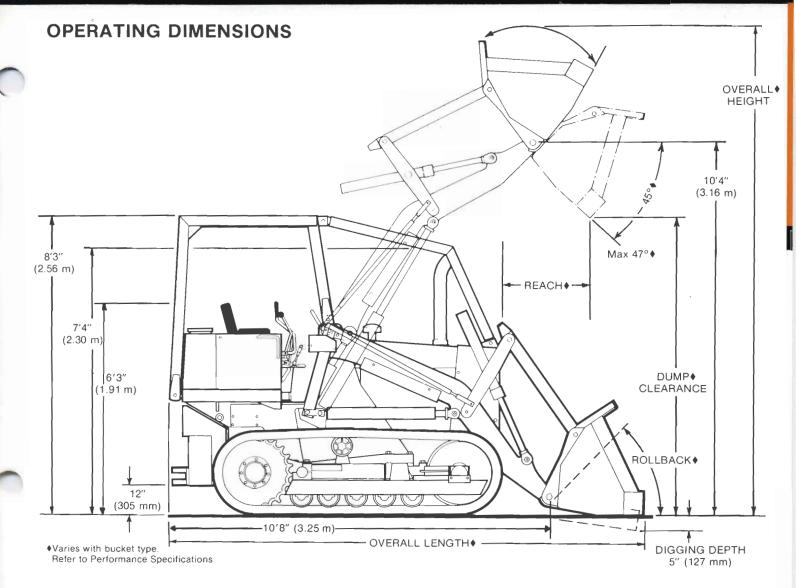
Cylinders: double ac	ting with hardened, chrome plated rods.
Lift (2)	3.5" dia × 31.0" stroke, 2.0" rod
	(88.9 mm dia × 787 mm stroke, 50.8 mm rod)
Bucket (2)	3.0" dia × 23.56" stroke, 1.5" rod
	(76.2 mm dia × 598 mm stroke, 38 mm rod)
Hydra-leveling® (1) 4.0" dia × 7.5" stroke 2.0" rod
	(102 mm dia × 190 mm stroke, 50.8 mm rod)

lydraulic cycle time:	
Rated load in bucket	Seconds
Raise	
Dump	1.5
Lower (float down)	4.3
Lower (power down)	3.1

SERVICE REFILL CAPACITIES	
U.S. Gals	Litres
Fuel tank	92.7
Engine crankcase (with filter) (naturally aspirated) 1.8	6.6
Engine crankcase (with filter) (turbocharged) 2.5	9.6
Hydraulic system	30.3
Transmission and torque converter 8	30.3
Final drives (each side)	5.7
Cooling system	15.6

GENERAL DIMENSIONS

Overall width
at track, 12" (305 mm) shoes
Ground clearance
Turning clearance circle
(pivot turn)
Grading angle
Overall length
Loader with ripper raised
Loader with winch 13'4" (4.06 m)



PERFORMANCE SPECIFICATIONS

BUCKET TYPE — Capacity SAE rated nominally heaped	ENERAL PURPOSE 1 yd³ (0.76 m³)	4-IN-1 [®] 1 yd³ (0.76 m³)	
Struck capacity	.800 yd³ (0.61 m³)	.800 yd³ (0.61 m³)	
Bucket weight (less teeth)	715 lbs (324 kg)	1165 lbs (528 kg)	
Bucket width	67.8" (1.72 m)	70.8" (1.80 m)	
Breakout force			
naturally aspirated	8160 lbf (36.3 kn)	8500 lbf (37.8 kn)	
turbocharged	8900 lbf (39.6 kn)	9270 lbf (41.2 kn)	
Maximum lift capacity to full height			
naturally aspirated	5200 lbs (2359 kg)	4620 lbs (2096 kg)	
turbocharged	5670 lbs (2572 kg)	5040 lbs (2286 kg)	
Bucket rollback @ ground line	39°	41°	
@ 18" (457 mm) carry	47°	48°	
Dump clearance @ full lift — 45° discharge	8'2" (2.49 m)	8'2" (2.49 m)	
Reach @ 45° discharge angle, 7' (2.13 m) clearance	3'2" (965 mm)	3'6.5" (1.08 m)	
Reach @ full lift, 45° discharge	2'4" (711 mm)	2'8" (813 mm)	
Overall length	13'2" (4.01 m)	13'7" (4.14 m)	
Overall height	13'7" (4.14 m)	13'7" (4.14 m)	
Static tipping load*	9600 lbs (4355 kg)	8800 lbs (3992 kg)	
Operating weight (approx.)**	14,525 lbs (6589 kg)	14,975 lbs (6793 kg)	

^{*}Operating weight and weight distribution may vary with the addition of optional equipment

^{**}Includes ROPS, full fuel tank and 170 lb (77.1 kg) operator

OPTIONAL EQUIPMENT

	pproximate I-on weight
	os kg
Backhoe, 14' (4.27 m)	
Bucket teeth6	
Counterweight'160	
Drawbar	
Grille, heavy duty	
Hook, front pull	
Lockout for clutch cutoff	
Lockup kit	
Muffler, spark arresting 8.7	
Noise suppression kit	
Ripper, three tooth127	70 576
Rock guards	50 113
ROPS, front sweeps1	10 49.9
Side shields, engine 56	.5 25.7
Track guides, front and rear15	50 68
Winch11	11 504
Winch, arch55	55 252
Winch, fairlead (three roller)28	34 129
Fourth roller	24 10.8

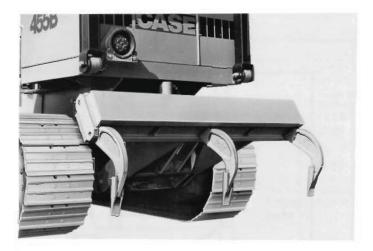
STANDARD EQUIPMENT

*Included in operating weight

Dry air cleaner with service indicator. Alternator and voltage regulator. Pusher fan. Key switch. Neutral safety start mechanism. Adjustable seat. Over-center parking brake. Tool tray. Permanently lubricated track rollers. Sealed track. Hydraulic track adjusters. Torque converter and driveshaft guard. Crankcase guard. Radiator guard. Muffler. Return-to-dig. Hourmeter. Instrument panel gauges. ROPS canopy with seat belt.

RIPPER

Overall width
Maximum penetration
Ground clearance (at carry)
Number of shanks 3 std — 5 opt
Shank spacing (686 mm)
5 — 13.6" (345 mm)
Ripper tips Replaceable
Hydraulic cylinder
(76 mm dia × 267 mm stroke, 38 mm rod)
Weight



NOTE: All specifications are stated in accordance with ICED Definitions or SAE Standards or Recommended Practices, where applicable.

IMPORTANT

JI Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such changes.

Sold and Serviced by: