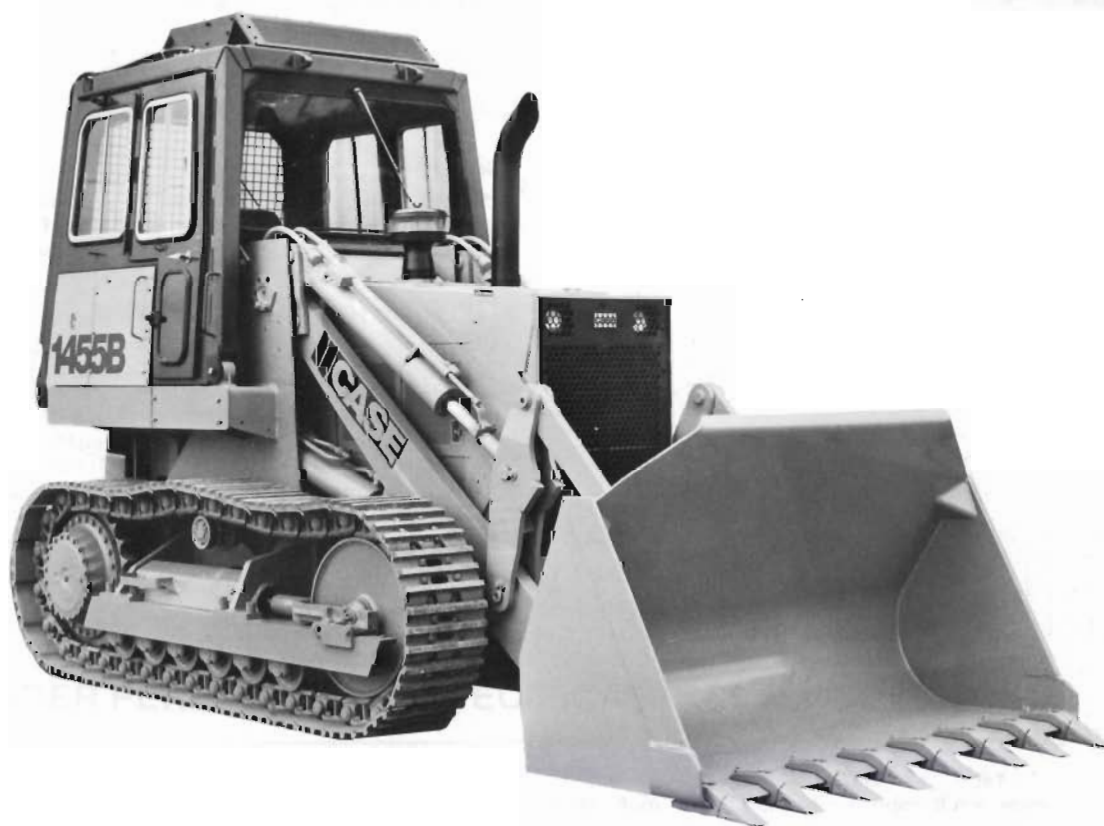




# 1455B Loader



**140 (104 kW) NET FLYWHEEL HORSEPOWER**

Six-cylinder, 504 in<sup>3</sup> (8259 cm<sup>3</sup>) Case turbocharged diesel engine

**FULL POWERSHIFT TRANSMISSION**

Modulated powershift with torque converter for smooth directional changes and positive control

**CONTROLLED TRANSMISSION STEERING OR BRAKE STEERING**

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

**COUNTER-ROTATING TRACKS**

Turn in the length of the tractor

**IN-LINE LOADER LINKAGE**

Excellent visibility of work area and bucket

**SINGLE LEVER BUCKET CONTROL**

Low lever effort and ease of operation

**PLANETARY FINAL DRIVES**

8.4 to 1 speed reduction

Unit shown is equipped with non-standard items.

**JI Case**

A Tenneco Company



Construction Equipment Division  
700 State Street Racine, WI 53404 USA

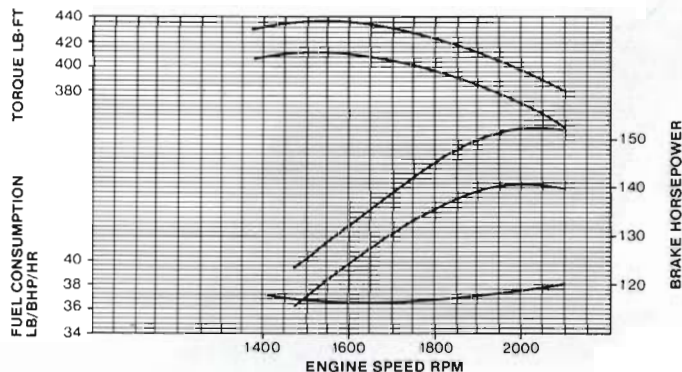
# 1455B LOADER SPECIFICATIONS

## ENGINE

Case Model A504BDT, 4 cycle, turbocharged diesel. Open chamber design. Uses No. 2 diesel fuel. Seven main bearings. Positive pressure oil lubrication with full flow filtering and internal cooling. Multiple cylinder heads. Aluminum alloy pistons with full skirt, 3-ring design. 24-volt direct electric starting. Dry type, dual element air cleaner with service indicator. Two-stage full flow spin-on fuel filters.

Maximum rated horsepower	
(1) Gross	152 @ 2100 rpm (113 kW @ 2100 r/min)
(2) SAE net	140 @ 2100 rpm (104 kW @ 2100 r/min)
Displacement	504 in <sup>3</sup> (8259 cm <sup>3</sup> )
Number of cylinders	6
Bore and stroke	4.625" x 5" (117.5 mm x 127 mm)
Compression ratio	15.8:1
Torque, maximum, lbs-ft	
Gross	437 @ 1525 rpm (592 Nm @ 1525 r/min)
Net	411 @ 1525 rpm (557 Nm @ 1525 r/min)

- (1) 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).
- (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

	1st		2nd		3rd		4th	
	mph	km/h	mph	km/h	mph	km/h	mph	km/h
Forward	1.8	2.9	2.7	4.3	3.8	6.1	5.4	8.7
Reverse	2.1	3.4	3.2	5.1	4.6	7.4	6.5	10.5

## TORQUE CONVERTER

Single stage, hydrokinetic type, 13" (330 mm) diameter with 2.29:1 ratio.

## TRANSMISSION

Constant mesh, four-speed full powershift with modulation permitting directional changes under full throttle. Four speeds forward, four speeds reverse.

## STEERING

Steering controlled by independent hydraulic clutches in transmission or by multiple disc power brakes. Four types of turns: power turns, gradual turns, counter-rotation, and brake turns.

## FINAL DRIVES

Planetary final drive, 8.4 to 1 speed reduction.

## BRAKES

Two multiple disc power brakes, oil cooled, independently controlled by power brake pedals for steering. Center pedal for controlled braking. Separate pedal provides braking without disengaging transmission. Hand operated over-center parking brake.

## UNDERCARRIAGE

Sealed track, hydraulic track adjusters. Track rollers, carrier rollers, and drum type idlers are permanently lubricated. Segmented hunting tooth sprockets. Box section track roller frame.

Track frame	Rigid
Track rollers (each side)	6
Carrier rollers (each side)	1
Track gauge	68" (1.73 m)
Length of Track on ground	94" (2388 mm)
Shoes per track (each side)	36

Track Shoe Width	Area, Track on Ground	P.S.I./KPA
16" (406 mm)	3008 in <sup>2</sup> (1.94m <sup>2</sup> )	11.5 (79)
17" (432 mm)	3196 in <sup>2</sup> (2.06m <sup>2</sup> )	10.8 (74)

## Track Shoes Available

- 16" (406 mm) 3-bar closed
- 17" (432 mm) 3-bar open
- 17" (432 mm) 2-bar closed

## 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 and automatic height control.

## LOADER HYDRAULIC SYSTEM

**Pump:** Gear type, torque converter mounted, driven from engine. 52 gpm @ 2100 rpm (197 lit/min @ 2100 r/min).

**Control valve:** Open center, parallel with pressure compensation.

**System relief pressure:** 2500 psi (176 kg/cm<sup>2</sup>).

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

### Cylinders:

Lift (2)	5.5" dia x 30.62" stroke, 2.5" rod (140 mm dia x 778 mm stroke, 64 mm rod)
Bucket (2)	5" dia x 35.69" stroke, 2.5" rod (127 mm dia x 907 mm stroke, 64 mm rod)

### Hydraulic cycle time:

Rated load in bucket	Seconds
Raise	7.1
Dump	2.0
Lower (float down)	3.4

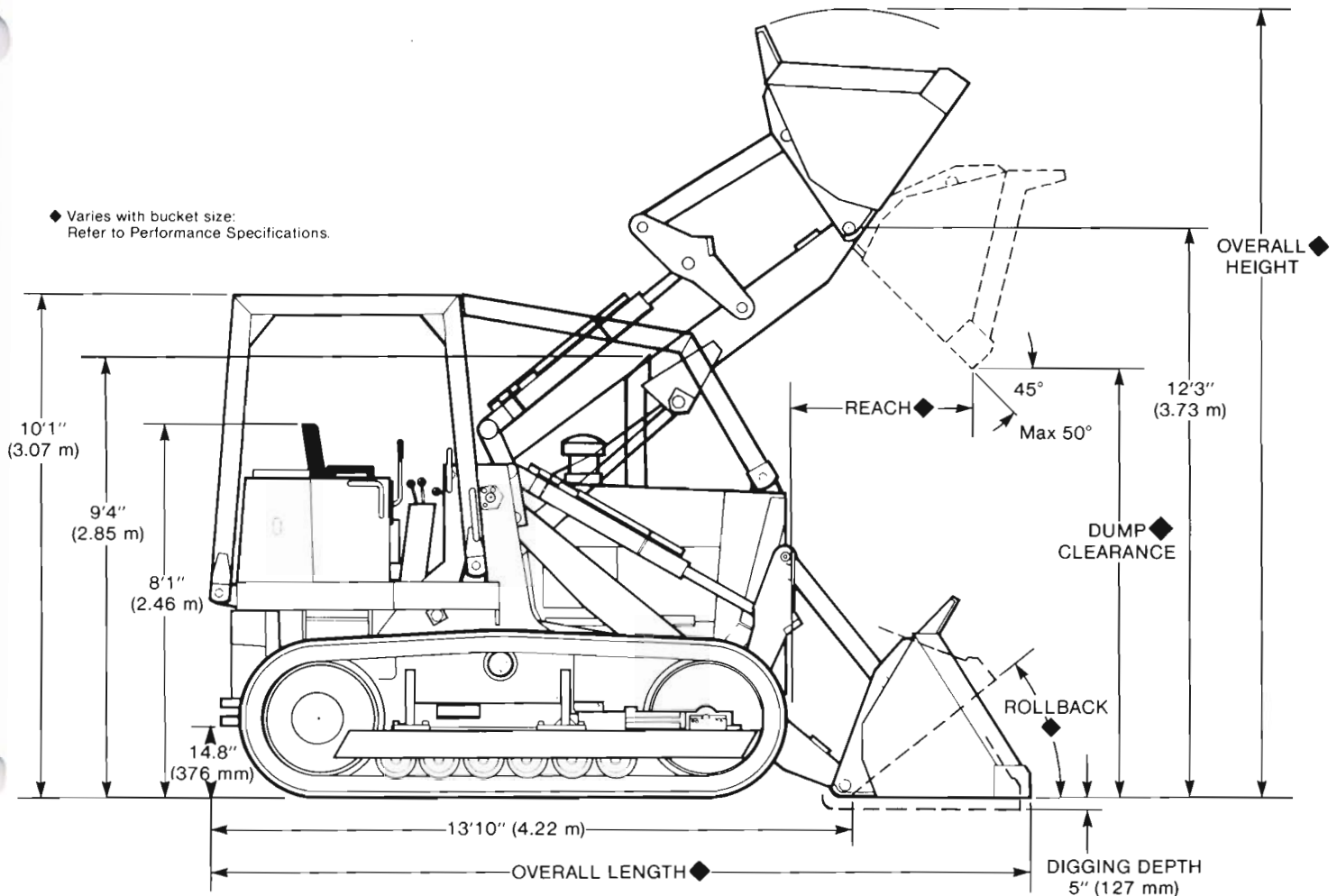
## SERVICE REFILL CAPACITIES

	U.S. Gals	Litres
Fuel tank	65	246
Engine crankcase (with filters)	7	26.5
Hydraulic system	17.5	66.3
Transmission and torque converter	15	56.8
Final drives (each side)	6.25	23.7
Cooling system	14	53

## GENERAL DIMENSIONS

Overall width	
at track, 16" (406 mm) shoes	83" (2.11 m)
Ground clearance (at drawbar)	14.8" (376 mm)
Turning clearance circle (counter-rotate turn)	24' (7.30 m)
Grading angle	106°

# OPERATING DIMENSIONS



## 1455B LOADER PERFORMANCE SPECIFICATIONS

**BUCKET TYPE**—Capacity  
SAE rated nominally heaped

**GENERAL PURPOSE**  
2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>)

**4-IN-1®**  
2 yd<sup>3</sup> (1.52 m<sup>3</sup>)

<b>Struck capacity</b>	1.85 yd <sup>3</sup> (1.41 m <sup>3</sup> )	1.66 yd <sup>3</sup> (1.26 m <sup>3</sup> )
<b>Bucket weight (less teeth)</b>	2135 lbs (968 kg)	3015 lbs (1368 kg)
<b>Bucket width (cutting edge)</b>	88" (2.24 m)	88" (2.24 m)
<b>Breakout force</b>	27,100 lbs (12 293 kg)	25,500 lbs (11 567 kg)
<b>Maximum lift capacity (full height)</b>	11,500 lbs (5216 kg)	10,300 lbs (4672 kg)
<b>Bucket rollback @ ground line</b>	40°	42.5°
@18" (457 mm) carry	42°	43.5°
<b>Dump clearance @ full lift—45° discharge</b>	9'7" (2.92 m)	9'5.5" (2.88 m)
<b>Reach @ 45° discharge angle, 7' (2.13 m) clearance</b>	5'6" (1.68 m)	5'10" (1.78 m)
<b>Reach @ full lift, 45° discharge</b>	4' (1.22 m)	4'5" (1.35 m)
<b>Overall length</b>	17'2.5" (5.25 m)	17'10.5" (5.46 m)
with ripper raised	19'9" (6.02 m)	20'4" (6.20 m)
with winch	18'8" (5.69 m)	19'4" (5.89 m)
less bucket	13'10" (4.22 m)	13'10" (4.22 m)
<b>Overall height</b>	16'10" (5.13 m)	16'3" (4.95 m)
<b>Static tipping load</b>	20,360 lbs (9235 kg)	18,220 lbs (8264 kg)
<b>Operating weight (approx)*</b>	35,150 lbs (15 944 kg)	36,050 lbs (16 352 kg)

Note — Operating weight and weight distribution may vary through the addition of optional equipment. 2900 lb (1315 kg) counterweight included for general purpose and 4-in-1 buckets.

\*Includes ROPS canopy, 16" (406 mm) semi grousers, full fuel tank and 170 lb (77.1 kg) operator.

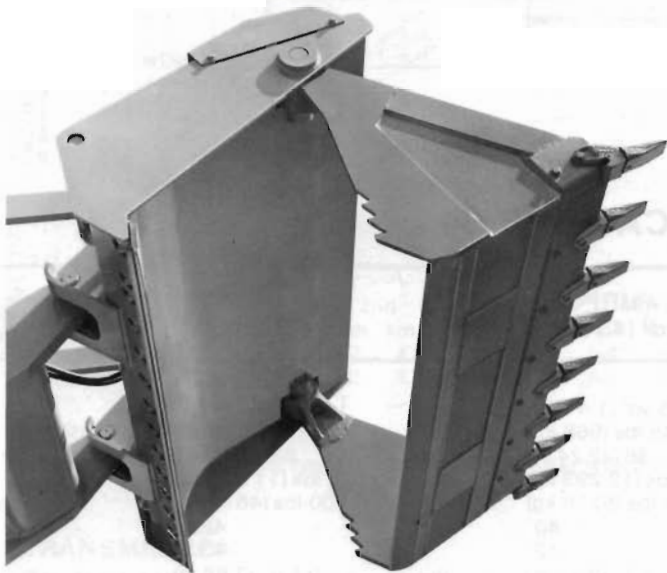
# OPTIONAL EQUIPMENT

	Approximate add-on			
	Weight		Tipping-load	
	lbs	kg	lbs	kg
Air conditioner	310	141	305	138
Bucket teeth	170	77	-227	-103
Bucket teeth, heavy duty	210	95	-280	-127
Counterweight	2900	1315	4858	2204
Drawbar (rigid)	90	408	150	68
Drawbar (for ripper)	162	73	230	104
Grille, brush screen	13	6	n.c.	n.c.
Grousers, 17" (432 mm) 3-bar, open	80	36	37	17
Grousers, 17" (432 mm) 2-bar, closed	-236	-107	-110	-50
Hook, front pull	20	9	n.c.	n.c.
Lights, 2 front 2 rear	18	8	n.c.	n.c.
Noise suppression kit	101	46	57	26
Ripper, three tooth	3000	1361	5200	2359
Rock guards	689	313	450	204
ROPS cab	595	270	654	297
ROPS canopy*	780	354	877	397
ROPS canopy side screens	106	48	129	59
ROPS, front sweeps	170	77	26	12
Track guides, front and rear	426	193	278	126
Winch	2150	975	3428	1555
Winch, fairlead (four roller)	594	269	1145	520
Winch, integral arch (four roller)	1215	551	2233	1013

\*Included in operating weight.

## 4-IN-1® BUCKET

Width of moldboard cutting edge	88" (2.24 m)
Moldboard height	49" (1.24 m)
Maximum clam opening	51.3" (1.30 m)
Dump clearance @ full lift (using clam)	12' (3.67 m)



## RIPPER

Type	Parallelogram
Overall width	78.1" (1.98 m)
Maximum penetration	18.1" (460 mm)
Ground clearance (at carry)	10.9" (277 mm)
Shanks, standard	
number	3
spacing	39" (991 mm)
Shanks, optional	
number	5
spacing	inner — 17.75" (451 mm) outer — 19.25" (489 mm)
Ripper tips	Replaceable
Hydraulic cylinders (2)	4" dia x 10" stroke, 2" rod (102 mm dia x 254 mm stroke, 51 mm rod)
Weight	3000 lbs (1361 kg)



## STANDARD EQUIPMENT

Dry air cleaner with service indicator. Pre-cleaner. Alternator and voltage regulator. Pusher fan. Master disconnect key switch. Neutral safety start mechanism. Color-coded international symbol gauges. Fuel gauge. Tachometer. Adjustable seat. Over-center parking brake. Tool box. Permanently lubricated track rollers. Sealed track. Hydraulic track adjusters. Heavy-duty, full length bottom guard including transmission. 16" (406 mm) 3-bar closed grousers. Front engine side shields. Anti-sand blast radiator. Heavy-duty radiator guard. Muffler. ROPS canopy with seat belt. Return-to-dig and automatic height control.

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

### IMPORTANT

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

**Sold and serviced by:**