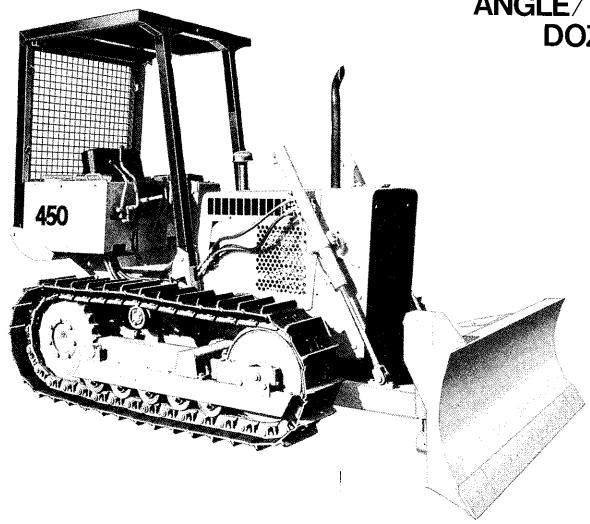


450 HYDRAULIC ANGLE/TILT DOZER



53 NET FLYWHEEL HORSEPOWER

Four-cylinder, 207 c.i.d. Case diesel engine

TORQUE CONVERTER

Increases push 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 unmatched performance

UNDERCARRIAGE

Sealed track and permanently lubricated track rollers, carrier rollers and idlers

ANGLE/TILT DOZER

Hydraulically angle or tilt the blade to match job conditions

Unit shown is equipped with non-standard items Manufactured by JT Case Company, Racine Wisconsin USA

JI Case

A Tenneco Company



450 SPECIFICATIONS

ENGINE

Dase Model G207D, 4 cycle, naturally aspirated diesel. Open chamber design. Uses No. 2 diesel fuel. Five main bearings. Positive pressure oil lubrication with full flow filtering and nternal cooling. Aluminum alloy pistons with full skirt, 3-ring design. 12-volt direct electric starting. Dry type, two-stage air cleaner with service indicator. Two stage full flow replaceable element fuel filters.

Maximum rated horsepower (1) Gross	58 @ 2000 rpm
	(43,3 KW (@ 2000 1/11111)
(2) SAE net	53 @ 2000 rpm
	(39,5 KW (@ 2000 1/11111)
Displacement	207 cu. in. (3392 cm ³)
Number cylinders	
Bore and stroke	
	(101,6 mm × 100 iiiiii)
Compression ratio	16.5:1
Torque maximum lbs-ft (Nm)	
Sea level, 60°F	
Sea level, oo i	(229 @ 1400 r/min)
500' (152 m) altitude, 85° F	

- (1) Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil and water pumps. Fuel set at maximum quantity for this application. Corrected to sea level — 29.92" (760 mm) Hg and 60°F (15°C) dry air.
- (2) SAE Net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories including oil and water pumps, alternator, air cleaner, fan and muffler. Corrected to 500' (152 m) altitude with .38" Hg. (1,3kPa) vapor pressure 29.38" Hg. (99 kPa) observed barometer and 85°F (29°C) air (per SAE J816a).

TORQUE CONVERTER

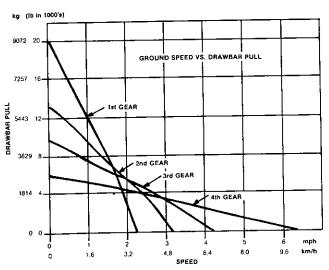
Single stage, hydrokinetic type, 11" (279 mm) diameter with 2.1:1 ratio.

TRANSMISSION

Constant-mesh, four-speed powershift with Hi-Lo range selector. Four speeds forward, four speeds reverse.

TRAVEL SPEEDS

	1st		2nd		3rd		4th	
Forward Reverse	mph	km/h 3,4	3.1	5,0	4.2	6,8	6.2	10,0



STEERING

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

FINAL DRIVES

Spur and bull gear type, single reduction. One-piece line-bored case with final drive seal guards.

BRAKES

Hydraulically 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, drum type idlers permanently lubricated. Solid disc hunting tooth sprockets.

Track frame Rigid
Track rollers (each side)
Carrier rollers (each side) '
Track gauge 52" (1320 mm)
Length of track on ground 68.5" (1740 mm)
Shoes per track (each side)
Area track on ground (14" shoes) 1918 sq. In. (1,24 m²)
(16" shoes) 2192 sq. in. (1,41 m²)
Height of grouser
Track shoe widths available: 14" (356 mm) 16" (406 mm)

DOZER HYDRAULIC SYSTEM

Full hydraulic control of moldboard lift, lower, angle and tilt functions. Positive-hold "float" position in lift circuit.

Pump: Gear type, front mounted, direct drive. 21 gpm @ 2000 rpm (79,5 lit/min @ 2000 r/min).

Control valve: Open center, parallel. Three spool valve.

System relief pressure: 1650 psi (116 kg/cm²).

Cylinders:

Lift: (2)	2.5" dia. × 28.0" stroke × 1.25" rod (63,5 mm dia. × 711 mm stroke × 31,8 mm rod)
Angle: (2)	4" dia. × 8.3125" stroke × 2" rod (102 mm dia. × 211 mm stroke × 50,8 mm rod)
Tilt: (1)	3.5" dia. × 8" stroke × 2" rod (88,9 mm dia. × 203 mm stroke × 50,8 mm rod)

SERVICE REFILL CAPACITIES

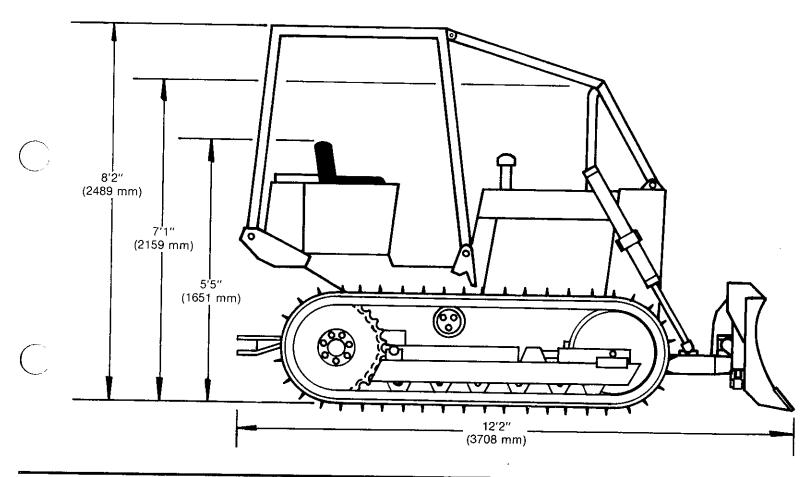
SERVICE MENTEL SAMPLE	U.S. Gals.	liters
Fuel tank	20	75,7
Engine crankcase (with filter)	1.75	6,6
Hydraulic system	7.5	28,4
Transmission and torque converter	8	30,3
Final drives (each side)	1.5	5,7
Cooling system	4.1	15,5

OPERATING DIMENSIONS

 Overall Lengths:

 Dozer with ripper raised
 14"½" (4280 mm)

 Dozer with winch
 12"7" (3835 mm)

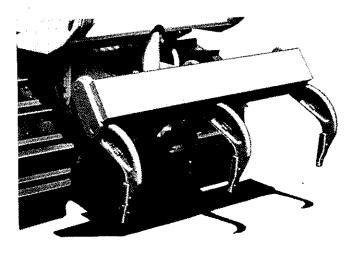


DOZER SPECIFICATIONS

Ŋ Z	Moldboard 88" (2235 mm) Height 28" (711 mm) Lift above ground 33.5" (850 mm)	Cutting Edge (Reversible) Length			
	Drop below ground				
	End Bits (Replaceable)	Overall width (blade straight)			
	Standard Duty Length 12" (305 mm) Width 6" (152,4 mm) Thickness ½" (12,7 mm)				
\ /	Cast Heavy Duty Length 14.5" (368 mm) Width 7.4" (188 mm) Thickness ½" (12,7 mm)	(, , , , , , , , , , , , , , , , , , ,			

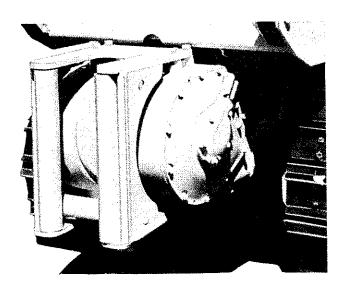
OPTIONAL EQUIPMENT

	Approximate
	add-on weight
ibs.	kg.
Backhoe, 12½'	1452
Extendahoe, 12½' - 15½' 3850	1746
Counterweight, front	454
Drawbar, swinging 60	27,2
Drawbar, for winch110	49,8
Fan, pusher n.c.	n.c.
Grille, heavy duty	16
Hook, front pull10	4,5
Lockout for clutch cutoff 10	4,5
Lockup kit 12	5,4
Moldboard end bits (cast) 4	1,8
Muffler, spark arresting 6	2,7
Noise suppression kit 103	46,7
Ripper, three tooth	5/6
Rock guards 330	150
Roll Over Protective Structure 534	242
ROPS, front sweeps 90	40,8
Side shields, engine	16
Transmission guard, rear58	26,3
Winch 1111	504
Winch, fairlead (3 roller) 200	90,7
Fourth roller for fairlead 24	



RIPPER

Overall width 57" (1448 mm))
Maximum penetration)
Ground clearance (at carry) 12" (305 mm)
lumber of shanks	i.
Shank spacing 3-27" (686 mm)
5-13.5" (343 mm)
Ripper tips Replaceable	е
Hydraulic cylinder	d
(76,2 mm dia. × 268 mm stroke × 38,1 mm rod)
Veight 1270 lbs. (576 kg	(
*Cight 11	



WI	N	C	н
----	---	---	---

MINCH	
Туре	
Winch drive	Mechanical
Control	Hydraulic
Cable drum capacity	1/2" (12,7 mm) 362' (110 m)
	5/8" (15,9 mm) 238' (72,5 m)
Drum rotation	Overwind
Drum diameter	8.5" (216 mm)
Rated line pull	29,600 lbs. (13427 kg)
Weight	

STANDARD EQUIPMENT

Dry air cleaner with service indicator. Alternator and voltage regulator. Suction 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. Lights, 2 front and 1 rear. Hourmeter. Instrument panel gauges, ROPS canopy mounting brackets.

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: