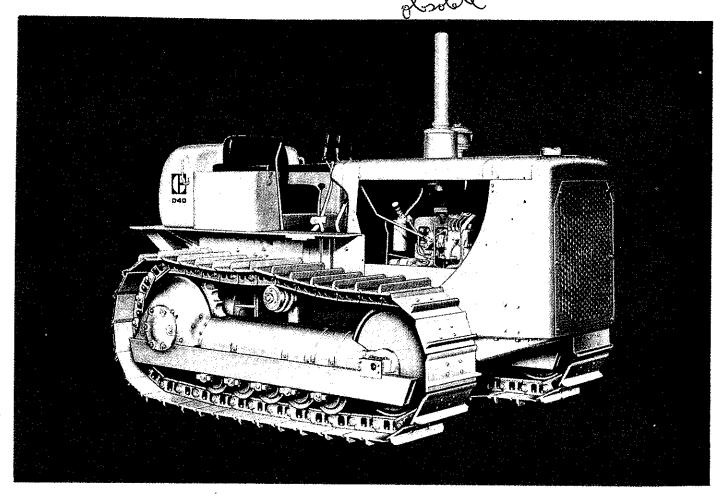
CATERPILLAR





Summary of features

- 75 flywheel horsepower Cat diesel engine . . . individual adjustment-free injection pumps and valves . . . uses nonpremium fuels without clogging.
- Choice of power shift . . . or three direct drive transmissions.
- High ground clearance . . . 14 inches (355 mm).
- Solid steel main frame . . . assures power train alignment and permits unit servicing.
- Sealed track . . . extends pin and bushing life. Track rollers, carrier rollers and idlers are Lifetime Lubricated.
- Complete range of attachments . . . bulldozers, ripper, hydraulic controls, lighting systems, etc.

Caterpillar engine

The net power at the flywheel of the vehicle engine operating under SAE standard ambient temperature and barometric conditions, 85° F. (29° C) and 29.38" Hg. (995 mbar), using 35 API gravity fuel oil at 60° F. (15.6° C). Vehicle engine equipment includes fan, air cleaner, water pump, lubricating oil pump, fuel pump and alternator. Engine will maintain specified flywheel power up to 5,000 ft. altitude (1500 m) on direct drive models, 7,500 ft. altitude (2300 m) with power shift.

Caterpillar 4-stroke cycle diesel Model 3304 with four cylinders, 4.75" bore (121 mm), 6" stroke (152 mm), and 425 cu. in. displacement (7 litres).

Precombustion chamber fuel system with individual adjustment-free injection pumps and valves.

Cam-ground and tapered aluminum alloy pistons with 3-ring design. Steel-backed aluminum bearings, Hi-Electro hardened crankshaft journals. Pressure lubrication with full-flow filtered oil. Dry-type air cleaner with primary and safety elements.

Uses economical No. 2 Fuel Oil (ASTM Specification D396), often called No. 2 furnace or burner oil, with a minimum cetane rating of 35. Premium quality diesel fuel can be used but is not required.

Two 24-volt direct electric starting systems — standard or low temperature. Glow plugs for pre-heating precombustion chambers included with both.

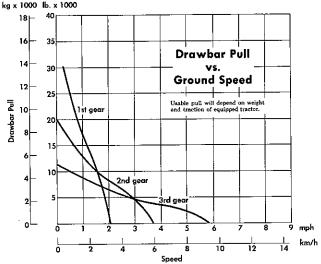


transmission

Power shift:

Planetary-type power shift with 10%6'' (265 mm) diameter, high torque capacity oil clutches. Special valve permits modulation for speed and direction changes under full load. Single-stage torque converter integral with power shift transmission. Converter connected to flywheel with a flexible drive coupling.

	Forwa	rd Speed	Reverse Speed		
Gear	MPH	(km/h)	· MPH	(km/h)	
1	2.0	(3.2)	2.5	(4.0)	
$\tilde{2}$	3.6	(5.8)	4.4	(7.1)	
3	5.9	(9.5)	7.1	(11.4)	



Direct drive:

Sliding gear type with fast forward-reverse shift. Filtered, full-pressure lubrication. Unit construction.

Flywheel clutch has two metallic-faced plates with mechanical, over-center engagement. Clutch lubricated and cooled by pressure-circulated oil. Connected to the transmission by double universal joint.

Standard transmission speeds and drawbar pulls:

					1	Drawbar	Pull For	ward*
	For	rward	Re	verse	Ra	ated	Max	dmum
Gear	MPH	(km/h)	MPH	(km/h)	lb.	(kg)	lb.	(kg)
1	1.7	(2.7)	2.0	(3.3)	13,550	(6150)	16,500	(7480)
2	2.5	(4.0)	2.9	(4.7)	9,140	(4150)	11,220	(5090)
3	3.4	(5.5)	4.1	(6.6)	6,210	(2820)	7,700	(3490)
4	4.5	(7.2)	5.3	(8.5)	4,480	(2030)	5,630	(2550)
5	5.9	(9.5)	6.9	(11.1)	3,120	(1410)	3,990	(1810)

Optional transmission with closely spaced working speeds:

- [
1	1.9	(3.1)	2.2	(3.5)	12,490	(5670)	15,240	(6910)
2	2.5	(4.G)	2.9	(4.7)	9,140	(4150)	11,220	(5090)
3	3.0	(4.8)	3.6	(5.8)	7,250	(3290)	8,950	(4060)
4	3.4	(5.5)	4.1	(6.6)	6,200	(2810)	7,690	(3490)
5	5.0	(8.0)	5.3	(8.5)	3,880	(1760)	4,900	(2220)

Optional transmission with lower speeds and increased drawbar pull:

1	1.5	(2.4)	1.8	(2.9)	15,980 (7250)	19,420 (8810)
2	2.0	(3.2)	2.4	(3.9)	11,540 (5230)	14,100 (6400)
3	3.0	(4.8)	3.6	(5.8)	7,250 (3290)	8,950 (4060)
4	3.4	(5.5)	4.1	(6.6)	6,200 (2810)	7,690 (3490)
5	5.0	(8.0)	5.3	(8.5)	3,880 (1760)	4,900 (2220)

^{*}Usable pull will depend on weight and traction of equipped tractor.



steering

Multiple disc clutches with over-center spring booster. Self-energizing, contracting band brakes with molded asbestos lining. Clutch and brake assemblies can be serviced as a unit.



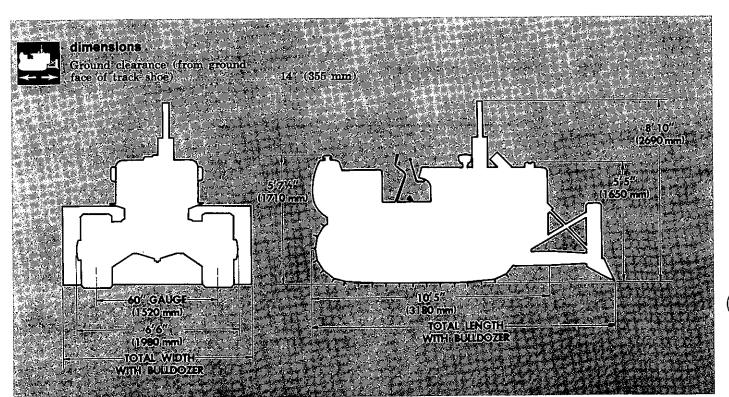
final drives

Coarse pitch, crown-shaved final drive gears, protected by Duo-Cone® floating ring seals.



track roller frame

Box channel construction, with five rollers on each side. Lifetime Lubricated track rollers, carrier rollers and idlers. Disc-type idlers (standard size or large) are optional. Oscillation at front idler, 10%" (275 mm).



track

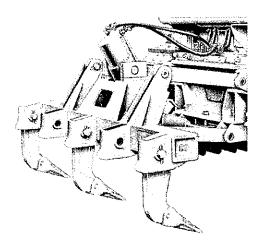
Sealed Track extends pin and bushing life and reduces wear on links and rollers. Screw-type track adjusters are standard, with hydraulic adjusters optional.
Number of shoes (each side)
Width of standard shoe 13" (330 mm)
Length of track on ground
Ground contact area with
13" (330 mm) shoes
Grouser height (from ground face of shoe) 17/8" (48 mm)

service refill capacities

	U.S. Gallons	(litres)
Fuel tank	55	(208)
Cooling system	8	(30)
Engine crankcase		(18.9)
Power shift transmission	10	(38)
Direct drive transmission	6	(22.7)
Power shift bevel gear	4	(15.1)
Oil flywheel clutch (direct drive)		(8.5)
Final drives (each)		(9)
Hydraulic tank	6.5	(24.6)

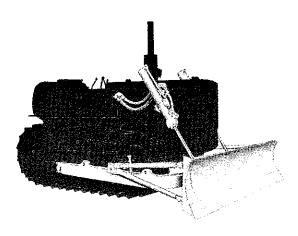
weights (approx.)

	Shipping	(includes	lubricants,	coolant,	10%	fuel,
			ic control):			
Direc	t drive			. 13,700 li	э. (621	0 kg)



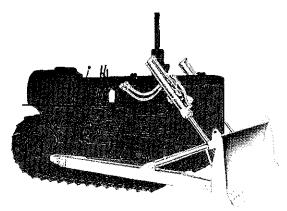
D4D with No. 4 Multi-shank Parallelogram Ripper:

Total length, ripper lowered	13' 7" (4150 mm)
Total length, ripper raised	12' 9" (3900 mm)
Total width (same as bare tractor)	6' 6" (1980 mm)
Maximum number of shanks	5
Maximum penetration	155%" (397 mm)
Weight, installed, including hydraulics:	
With three straight shank teeth	2,000 lb. (900 kg)
For each additional tooth add	68 lb. (31 kg)



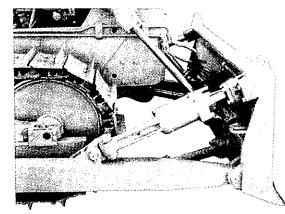
D4D with Model 4A Angling Bulldozer:

Total length (blade straight) 12' 10.5" (3920 mm))
Total width (blade straight) 10' 3" (3120 mm))
Shipping weight, including tractor, hydraulic	
control and bulldozer (power shift) 17,450 lb. (7910 kg))
Operating weight, including tractor, hydraulic	
control and bulldozer (power shift) 17,980 lb. (8160 kg))



D4D with Model 4S Straight Bulldozer:

Total length	12′ 10″ (3910 mm)
Total width	8' (2440 mm)
Shipping weight, including tractor, hydrony	
control and bulldozer (power shift)	17,710 lb. (8030 kg)
Operating weight, including tractor, hyd	raulic
control and bulldozer (power shift)	18,240 lb. (8270 kg)



Hydraulic tilt cylinder attachment for Model 4S Bulldozer:

Maximum hydraulic tilt	11°	forward,	5°	back
Weight, installed, including additional				
hydraulics required	· · · · · · · ·	210 lb.	(9	5 kg)





standard equipment

Alternator, 19 amp. Blower fan. Electric starting. Fuel priming pump. Lifetime Lubricated rollers and idlers. Muffler. Retrieval hitch. ROPS support structure

(standard in U.S.A.). Sealed track. Seat belt. 5-roller track frame. 13" (330 mm) grouser tracks (35-section).

optional equipment	
(with approx. installed weights)	
Air conditioning compressor	45 lb. (20 kg)
Alternator, 50 amp	15 lb. (7 kg)
Bulldozers See page 3 and att	achment spec sheet.
Bumper, front	140 lb. (64 kg)
Decelerator, foot operated, power	
shift model only	25 lb. (11 kg)
Drawbar:	
Rigid	58 lb. (26 kg)
Swinging	169 lb. (77 kg)
Engine enclosure	150 lb. (68 kg)
Extension, air cleaner inlet	32 lb. (14 kg)
Fan:	
Reversible blade	35 lb. (16 kg)
Suction	–10 lb. (–4 kg)
Frame, track, 5-roller non-oscillating	1,515 lb. (690 kg)
Guards:	
Crankcase, extreme service	650 lb. (295 kg)
Normal service	
Engine, upper, for use with bulldozer	
Logging arrangement	912 lb. (414 kg)
Precleaner	15 lb. (7 kg)
Radiator, hinged, heavy duty	
Normal service	10 lb. (4 kg)

Track guiding, center section only	90 lb. (41 kg)
Ends only	90 lb. (41 kg)
Track roller, severe applications	274 lb. (124 kg)
Normal applications	167 lb. (76 kg)
For use with end track	
guiding guards	262 lb. (119 kg)
Heater, engine coolant	
Hook, front pull	30 lb. (14 kg)
Idlers, front, set of two:	
Disc-type, large diameter	129 lb. (59 kg)
Disc-type, standard diameter	20 lb, (9 kg)
Lighting system, 24-volt	
Two lights	13 lb. (6 kg)
Four lights	
Precleaner, with prescreener	6 lb. (3 kg)
Radiator core protector grid	35 lb. (16 kg)
Rain cap	
Ripper See page 3 and atta	achment spec sheet.
ROPS support structure	
(standard in U.S.A.)	
ROPS canopy	700 lb. (317 kg)
Seat, shock dampening (power shift only)	
Starting system, 24-volt, low temperature	125 lb. (57 kg)
Tool kit	
Track adjusters, hydraulic	32 lb. (14 kg)

Materials and specifications are subject to change without notice.