

DIESEL TRACTOR

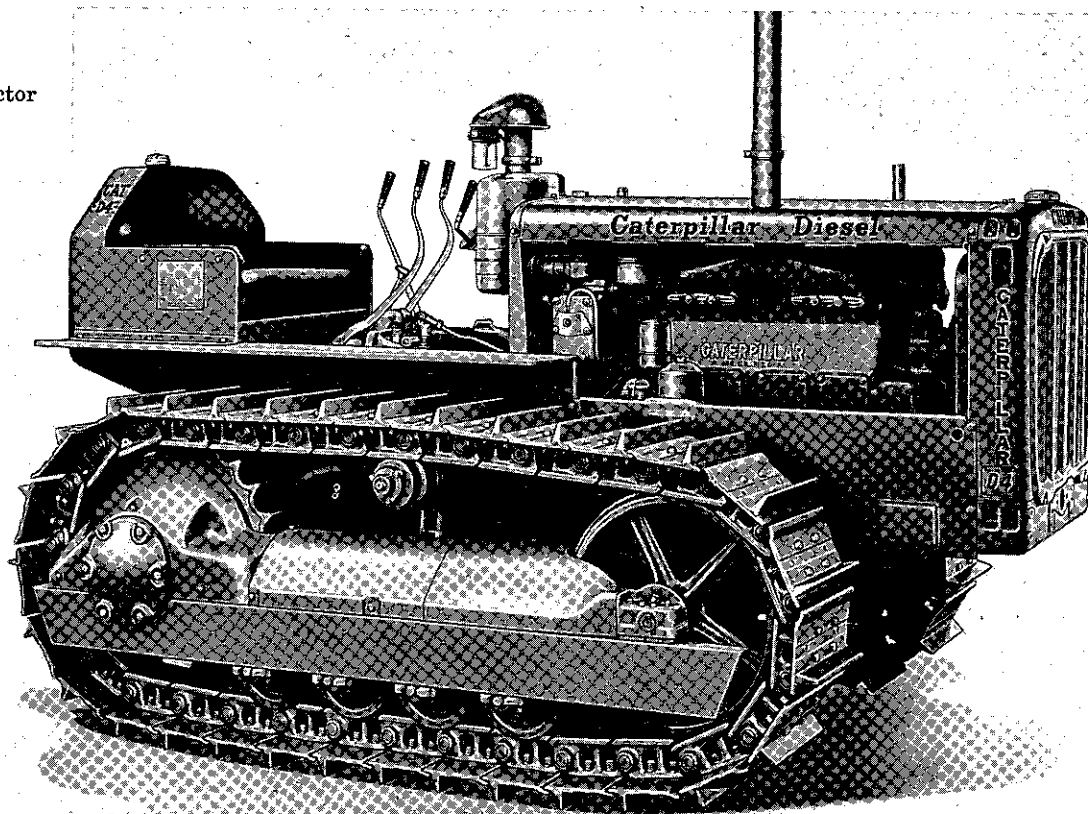
CATERPILLAR

D4

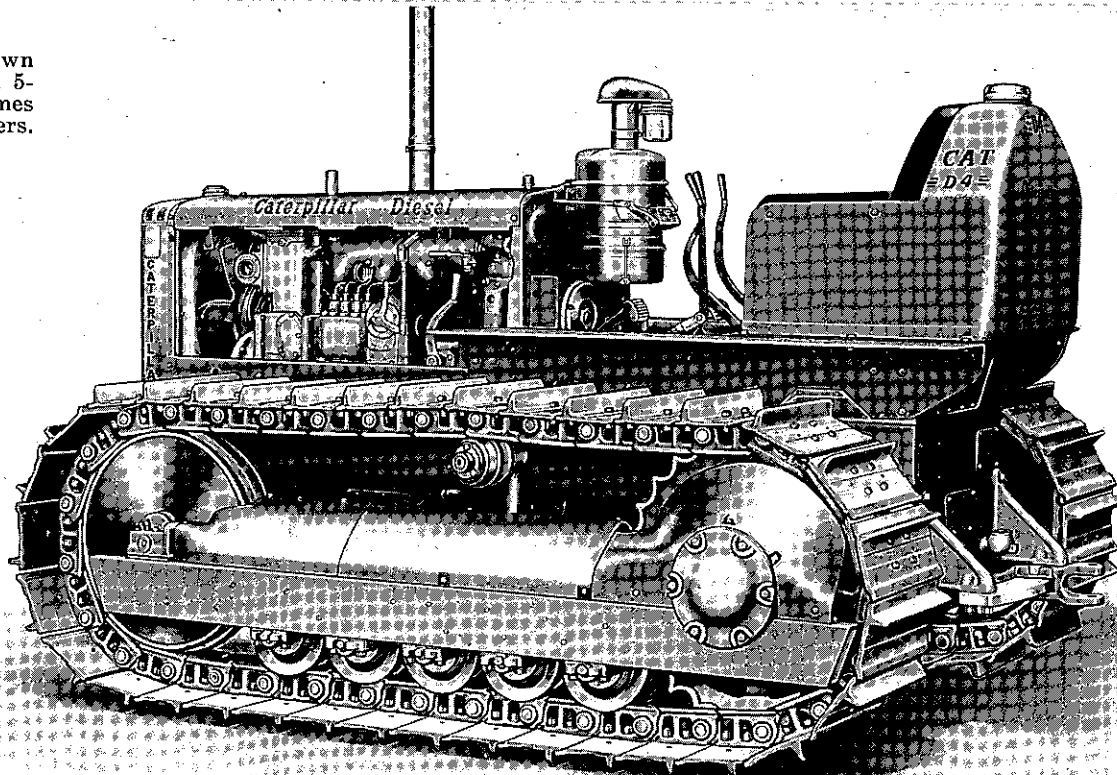
57 HP (Belt)

74

Standard D4 Tractor



D4 Tractor shown equipped with 5-roller track frames and large front idlers.



# D4

## DIESEL TRACTOR

### HORSEPOWER:

(Rated at sea level)

Drawbar .....	50
Belt .....	57

### OPERATING PERFORMANCE DATA:

Travel Speeds at Rated Engine RPM	RPM	Std. Trans. Gear	Drawbar Pull (lb.)	
			Rated	Max.
1.9	167	1	9,550	10,700
2.7	238	2	6,930	7,770
3.4	299	3	5,350	6,000
4.2	370	4	4,110	4,610
6.1	537	5	2,600	2,920
2.2	194	Rev.	8,750	9,810

Tested at Nebraska, Official Tractor Test No. 554  
Maximum available pull will depend on traction and weight of the fully equipped tractor.

### ENGINE:

Four-cycle, valve-in-head, diesel  
Number of cylinders..... 4  
Bore and stroke..... 4½" x 5½"  
Piston displacement..... 350 cu. in.  
RPM—governed at full load..... 1,600  
RPM—at maximum drawbar pull (point of maximum torque) ..... 1,000  
N.A.C.C. horsepower rating for tax purposes. 32.4  
Lubrication (full flow filtering)..... Full pressure  
Crankshaft ..... "Hi-Electro" hardened  
Bearings..... 5 main bearings  
steel-backed aluminum, precision-type  
Fuel injection system..... Caterpillar-built

**FUEL:** Burns No. 2 Fuel Oil (ASTM Specification D396-48T), often called No. 2 furnace or burner oil, with a minimum cetane rating of 35. Expensive, premium-quality diesel fuel can be used but is not required.

**STARTING METHOD:** Independent two-cylinder, four-cycle gasoline engine. Cooling system integral with diesel engine. 24-volt electric starting optional.

**TRANSMISSION:** Power transmitted through dry flywheel clutch to selective type speed change. Oil-type flywheel clutch is optional.

### STEERING:

Clutches (overcenter spring booster). Multiple disc  
Clutch friction material..... Metallic  
Number of friction surfaces in each  
steering clutch ..... 22  
Inner clutch drum grooves..... Helical  
Brakes ..... Contracting band

### TRACK:

	4-Roller Track Frame	5-Roller Track Frame
Number of shoes (each side).	31	34
Width of standard track shoe.	13"	
Height of grouser (measured from ground face of standard track shoe).....	1 7/8"	
Length of tracks on ground (center drive sprocket to center front idler).....	5' 1 1/8"	5' 11 1/4"
Area ground contact with 13" track shoes (sq. in.).....	1,589	1,852

### CAPACITIES:

	U. S. Gal.
Cooling system .....	11
Fuel tank .....	30
Lubrication system	Quarts
Crankcase .....	15
Transmission .....	18
Final drive (each).....	7

### GENERAL DIMENSIONS:

Length (over-all) .....	10' 1/4"	10' 4 1/4"
Height (measured from tip of grouser of standard track shoe to highest point, exclusive of exhaust pipe and precleaner).....	5' 9 3/8"	
Width (over-all)		
60 inch gauge.....	6' 6"	
44 inch gauge.....	5' 2"	
Ground clearance (measured from ground face of standard track shoe to lowest point on auxiliary spring shackles) .....	11 1/2"	
Height drawbar above ground (measured from ground face of standard track shoe)....	14 1/4"	
Lateral movement drawbar (measured at pin).....	21 1/2"	

### WEIGHT:

Shipping, lb., (approx.)		
60-inch gauge.....	10,670	10,970
44-inch gauge.....	10,375	10,675
Operating, lb., (approx.)		
60-inch gauge.....	10,860	11,160
44-inch gauge.....	10,570	10,870

## CATERPILLAR\*

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CATERPILLAR TRACTOR CO.

PEORIA, ILLINOIS, U.S.A.

Diesel Engines • Tractors • Motor Graders  
Earthmoving Equipment

Materials and specifications are subject to change without notice.