

Accurately located holes are provided for attaching tractor equipment. See your "Caterpillar" dealer for detailed information.

"Caterpillar" Diesel D8 Tractor

(SPECIFICATIONS ON OTHER SIDE)

Specifications of "Caterpillar" Diesel D8 Tractor

CAPACITY:

The following are maximum horse-powers at sea level, as established by manufacturers tests.

Drawbar horsepower..... 130

Belt horsepower..... 144

The following are the rated speed drawbar pull observed during manufacturers tests.

Drawbar pull (Lb.):

First	28,700
Second	21,300
Third	16,800
Fourth	12,600
Fifth	9,550

The following calculated values for maximum torque drawbar pull are based on the observed drawbar pull shown above. When slowed down by overload, "Caterpillar" Engines develop a considerably greater turning effort (torque) at the flywheel, which results in greater drawbar pull at reduced travel speed:

Drawbar pull (Lb.):

First	31,600
Second	23,400
Third	18,400
Fourth	13,850
Fifth	10,500

Travel speeds at rated engine speed:

	M.P.H.	F.P.M.
Forward —		
First	1.7	150
Second	2.3	202
Third	2.8	246
Fourth	3.7	326
Fifth	4.8	423

Reverse —

First	2.2	194
Second	3.0	264
Third	3.7	326

Engine—four-cycle, water-cooled:

Fuel	Commercial Diesel Fuels
Number of cylinders.....	6
Bore and stroke.....	5 3/4"x8"
Piston displacement.....	1,246 Cu. In.
R.P.M. — governed at full load.....	1000
Piston speed at 1000 R.P.M.	1335 F.P.M.
R. P. M. at maximum drawbar pull (point of maximum torque).....	725
N. A. C. C. horsepower rating for U. S. A. tax purposes.....	79.35
Lubrication	Full Pressure
Crankshaft:	
Number of main bearings.....	7
Diameter of main bearings.....	3 3/4"
Total area of main bearing surface.....	214 Sq. In.

Starting Method:

Independent 2-cylinder, 4-cycle, vertical gasoline engine, equipped with 2-speed transmission, high tension magneto and impulse coupling, down draft carburetor and flyball governor. Bore 3 3/4". Stroke 4". 24 H.P. @ 2,700 R.P.M. Drive by single plate clutch and helical gears to flywheel.

Gauge (center to center tracks)..... 78"

Length of tracks on ground (center drive sprocket to center front idler).. 97 3/4"

Area ground Contact (with standard track shoes) 4,296 Sq. In.

Over-all:

Length

15'-3"

Height (measured from tip of grouser of standard track shoe to highest point, exclusive of exhaust pipe and pre-cleaner)

7'-6"

Width

8'-7 3/4"

Ground clearance (measured from lower face of standard track shoe)..... 10 1/2"

Height drawbar above ground (measured from lower face of standard track shoe)

17 1/2"

Lateral movement drawbar (measured at drawbar pin)..... 3'-7"

Track:

Width of standard track shoe..... 22"

Height of grouser (measured from upper face of standard track shoe).. 2 1/2"

Diameter of track shoe bolts..... 3/4"

Diameter of track pins..... 1 1/4"

Diameter of track pin bushings..... 2 3/4"

Steering †:

Clutch friction material..... Metallic

Number of friction surfaces, each clutch

36

Type of clutch release..... Spring Compensated

Brakes, dry

Contracting Band

Transmission:

Constant mesh helical gears. Power transmitted through flexible coupling and over center engagement, dry flywheel clutch with metallic friction surfaces. Selective type speed change.

Capacities:

Cooling system..... U. S. Gallons

28

Crankcase, lubricating oil..... 8 1/2

Transmission, lubricating oil..... 10 1/2

Final drive, lubricating oil, each.... 6 1/2

Fuel tank..... 69

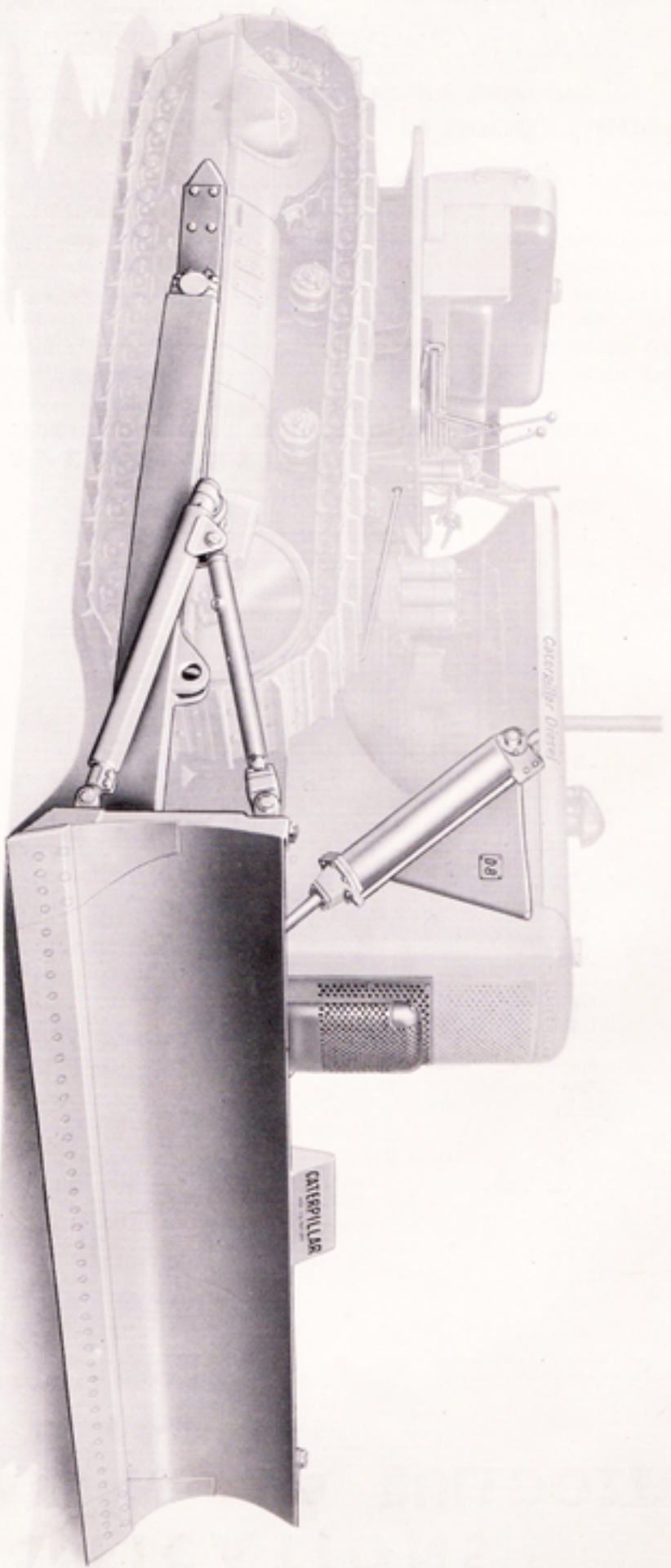
Weight, shipping (approximate)..... 34,360 Lb.

†Each track controlled by slow speed, heavy duty, dry multiple disc clutch and contracting band brake.

CATERPILLAR TRACTOR CO. PEORIA, ILLINOIS

DIESEL ENGINES—TRACTORS—MOTOR GRADERS—EARTHMOVING EQUIPMENT

No. 8A Bulldozer mounted
on D8 Tractor equipped
with No. 46
Hydraulic Control



"CATERPILLAR" No. 8A BULLDOZER

Angling Blade — Hydraulic

SPECIFICATIONS ON OTHER SIDE

SPECIFICATIONS

"CATERPILLAR" No. 8A BULLDOZER

Angling Blade — Hydraulic

Complete Bulldozer consists of blade, C-frame, braces, trunnions, cylinder brackets, cylinders and lower radiator guard.

For Use With Tractor Model.....	D8
Overall Dimensions of tractor with mounted bulldozer:	
Length (Blade straight).....	19' - 7½"
Length (Blade angled).....	22' - 4"
Width (Blade straight).....	13' - 4"
Width (Blade angled).....	12' - 2"
Width, with C-frame attached (blade removed).....	11' - 1¼"
Height (same as bare tractor).....	7' - 6"
Blade:	
Length.....	13' - 4"
Height.....	38¾"
Maximum lift above ground (Blade straight).....	48½"
Maximum lift above ground (Front point with blade angled but not tilted).....	58¾"
Maximum drop below ground.....	16¼"
Maximum blade tilting adjustment.....	12"
Blade angle.....	25°
Lift Speed — Feet per second (At rated engine speed).....	1.25
Moldboard Construction.....	Multiple Box
Cutting Edges:	
Center Section:	
Length.....	10' - 8"
Width.....	10"
Thickness.....	¾"
End Bits:	
Length.....	16"
Width.....	10"
Thickness.....	1"
Material.....	Heat Treated Carbon Steel
Cylinders (double acting) bore and stroke.....	6" x 34"
Maximum Usable Track Shoe Width.....	24"
Weight (approx.) shipping, lbs.....	6650

SPECIFICATIONS

"CATERPILLAR" No. 46 HYDRAULIC CONTROL TO OPERATE No. 8A BULLDOZER
(Required but not included with Bulldozer)

PUMP HOUSING (sealed reservoir for fluid) encloses.....	Pump, Control Valve, Oil Filter
PUMP (vane type, front mounted) output.....	100 G.P.M. @ 1000 R.P.M. @ 1000 P.S.I.
SINGLE VALVE (spool type control valve) positions.....	Raise, Hold, Lower, Float
LINES (from pump housing to cylinder hose connections) type.....	Steel Tubing
DRIVE COUPLING (direct from tractor crankshaft pulley) type.....	Universal Joint
HOSE and FITTINGS (connecting cylinders to steel lines) type.....	Rubber Hose and Flange Fittings
LIQUID (required for operating entire Hydraulic Bulldozer system) capacity.....	18 Gallons
WEIGHT (approx.) shipping.....	655 Pounds

CATERPILLAR TRACTOR CO., . . . Peoria, Illinois

DIESEL ENGINES — TRACTORS — MOTOR GRADERS — EARTHMOVING EQUIPMENT