

## TRACTOR

### CATERPILLAR ENGINE:

Flywheel Horsepower @ 1900 RPM ..... 500

Flywheel horsepower is the net horsepower at flywheel of standard engine operating under normal temperature and barometric conditions [up to 5000 ft. (1520 m) altitude]. Standard engine equipment includes fan, air cleaners, water pump, lubricating oil pump, fuel pump, charging alternator and air compressor.

Four-cycle, 5.4" (137,2 mm) bore and 6.5" (165,1 mm) stroke, eight-cylinder diesel. 1190 cu. in. (19,501 lit.) displacement.

### FUEL

Burns economy type 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 METHODS (Optional)

24 volt starting system for direct electric starting of diesel. Gasoline starting engine with 12 volt starting motor.

### TRANSMISSION

Caterpillar-built power shift with TORQUE DIVIDER, providing three automatically shifted speeds in each of three manually selected ranges plus loading range. Nine forward speeds, three reverse speeds.

### HYDRAULIC SYSTEM

Vane type pump, closed system. 150 GPM at 2000 RPM. Relief valve setting 2000 p.s.i.

### FINAL DRIVE

Planetary type with full-floating axles and split roller bearings.

### BRAKES

Air actuated and synchronized to brake rear dump first. Drive wheels may be braked individually. Diameter and width 30" x 8". Hydraulic retarder is standard.

### STEERING

Full time hydraulic boost. Tractor turns full 90° in relation to rear dump.

## REAR DUMP

### CONSTRUCTION

Body is all welded, reinforced with box sections and of high strength steel plate. Floor is designed in a straight line to insure fast, clean dumping. Single floor plate is  $\frac{3}{4}$ " thick. Sloping side plates are  $\frac{9}{16}$ " thick, and vertical plates are  $\frac{3}{4}$ " thick. Upper front end panel is  $\frac{7}{16}$ " thick and lower front panel is  $\frac{9}{16}$ " thick. Drawbar and draft connection are of unit construction with 1" plate,  $\frac{3}{4}$ " top plate and  $\frac{3}{4}$ " side plates.

### DESIGN

Rear Dump is of frameless design. Smooth contours inside body expedite load dumping. Wide open-mouthed body and low loading height facilitate loading with any type of equipment. Optional wide tread single and dual tire arrangements available to match any hauling conditions. Forward 18° slope of body floor and sloping sides reduce loading shocks.

### OPERATION

Hydraulic power for actuating rear dump body is obtained from integral tractor mounted Caterpillar hydraulic system featuring a full flow filter, closed hydraulic system and direct engine driven vane type pump. Body is operated with a four position dump lever mounted to right of operator. Twin, three-stage hydraulic hoists lift body to 53° dump angle. Third stage is double acting.

### BRAKES

Air operated from tractor brake controls. Rear dump brakes set first. Rear dump has separate air reservoir and emergency relay valve to apply brakes automatically in event of air line failure. Diameter and width 30" x 8".

### WHEELS

Tapered roller bearings, special oil seals. Spindles are hot-finished seamless steel tubing. Axle dimensions: 29" long, 9 $\frac{3}{4}$ " O.D. x 1 $\frac{1}{2}$ " wall.

### OPTIONAL EQUIPMENT

**Body Wear Plates**—Recommended for abrasive material. Wear plates are high strength steel strips welded to floor and side plates and angles welded horizontally to front plate of body.

**Ducktail**—To provide extra casting distance.

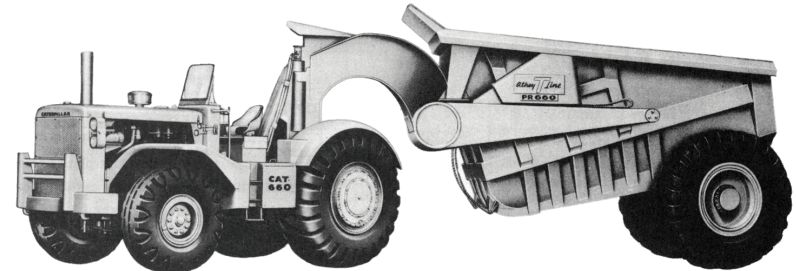
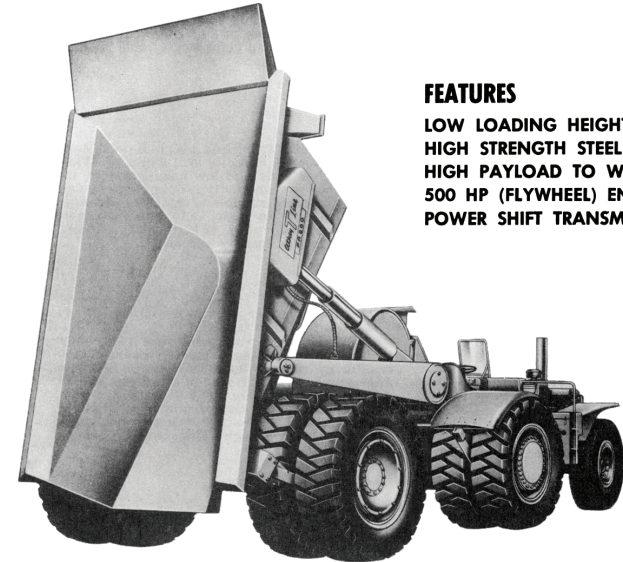
**Body Heating**—Tractor exhaust gases circulated through body interior. Facilitates dumping adhesive and/or frozen materials.

**60 TON CAPACITY**

**Optional 67.5 Ton, 75 Ton**

**CATERPILLAR**

**PR660  
REAR DUMP**



### FEATURES

**LOW LOADING HEIGHT**  
**HIGH STRENGTH STEEL CONSTRUCTION**  
**HIGH PAYLOAD TO WEIGHT RATIO**  
**500 HP (FLYWHEEL) ENGINE**  
**POWER SHIFT TRANSMISSION**

Materials and specifications are subject to change without notice.

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SERIAL #

Attested By \_\_\_\_\_

It is hereby certified the Cat PR660 Rear Dump with the serial number at left is an authentic registered Classic Construction Model produced in a strictly limited single edition.



# PR660 REAR DUMP

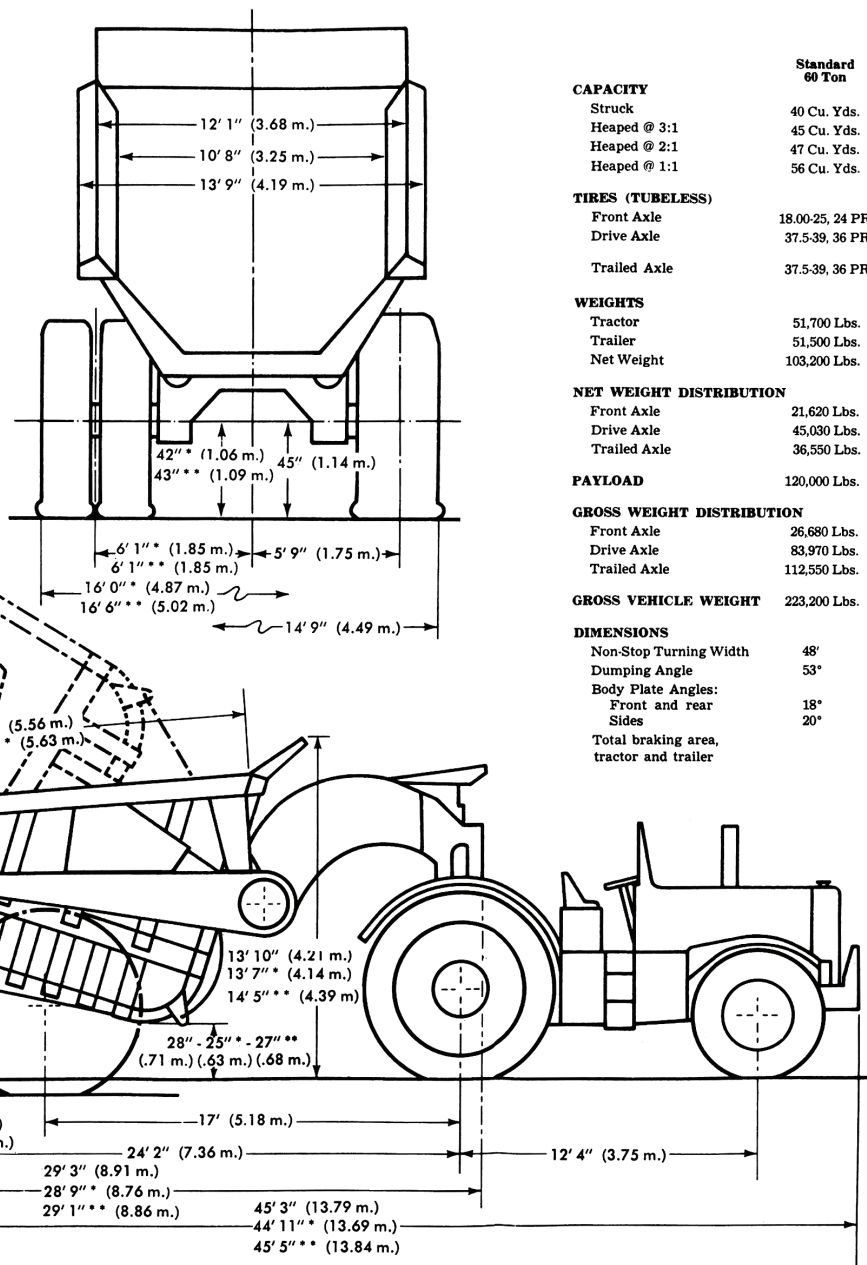
## OVERALL DIMENSIONS

\* Indicates 18:00 x 49 Dual Tire Dimensions

\*\* Indicates 21:00 x 49 Dual Tire Dimensions

### CONVERSION TABLE

1 Mile = 1.609 Kilometers	1 Sq. In. = 6.452 Sq. Centimeters
1 Foot = 30.48 Centimeters	1 Lb. = .4536 Kilogram
1 Inch = 2.54 Centimeters	1 Sq. Yd. = 0.836 Sq. Meters
1 U.S. Gal. = 3.785 Liters	1 Sq. Ft. = 929 Sq. Centimeters
1 U.S. Gal. = 0.833 Imp. Gals.	
1 U.S. Gal. Diesel Fuel = 7.3 Lb. (approx.)	
1 U.S. Gal. Coolant = 8.3 Lb. (approx.)	



## CAPACITY

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Struck	40 Cu. Yds.	30.58 Cu. M.	40 Cu. Yds.	30.58 Cu. M.	45 Cu. Yds.	34.4 Cu. M.
Heaped @ 3:1	45 Cu. Yds.	34.4 Cu. M.	45 Cu. Yds.	34.4 Cu. M.	50 Cu. Yds.	38.23 Cu. M.
Heaped @ 2:1	47 Cu. Yds.	35.93 Cu. M.	47 Cu. Yds.	35.93 Cu. M.	53 Cu. Yds.	40.52 Cu. M.
Heaped @ 1:1	56 Cu. Yds.	42.81 Cu. M.	56 Cu. Yds.	42.81 Cu. M.	62 Cu. Yds.	48.16 Cu. M.

## TIRES (TUBELESS)

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Front Axle	18.00-25, 24 PR		18.00-25, 24 PR		18.00-25, 24 PR	
Drive Axle	37.5-39, 36 PR		18.00-49, 32 PR (Dual)		21.00-49, 36 PR (Dual)	
Trailer Axle	37.5-39, 36 PR		18.00-49, 32 PR (Dual)		21.00-49, 36 PR (Dual)	

## WEIGHTS

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Tractor	51,700 Lbs.	23,451 Kg.	56,670 Lbs.	25,705 Kg.	58,560 Lbs.	26,563 Kg.
Trailer	51,500 Lbs.	23,360 Kg.	54,500 Lbs.	24,721 Kg.	59,630 Lbs.	27,048 Kg.
Net Weight	103,200 Lbs.	46,811 Kg.	111,170 Lbs.	50,440 Kg.	118,190 Lbs.	53,615 Kg.

## NET WEIGHT DISTRIBUTION

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Front Axle	21,620 Lbs.	9,807 Kg.	21,620 Lbs.	9,807 Kg.	21,710 Lbs.	9,848 Kg.
Drive Axle	45,030 Lbs.	20,426 Kg.	50,050 Lbs.	22,703 Kg.	52,600 Lbs.	23,859 Kg.
Trailer Axle	36,550 Lbs.	16,579 Kg.	39,500 Lbs.	17,917 Kg.	43,880 Lbs.	19,904 Kg.

## PAYLOAD

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
	120,000 Lbs.	54,432 Kg.	135,000 Lbs.	61,230 Kg.	150,000 Lbs.	68,040 Kg.

## GROSS WEIGHT DISTRIBUTION

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Front Axle	26,680 Lbs.	12,102 Kg.	27,330 Lbs.	12,397 Kg.	28,050 Lbs.	12,723 Kg.
Drive Axle	83,970 Lbs.	38,089 Kg.	93,940 Lbs.	42,611 Kg.	101,360 Lbs.	45,995 Kg.
Trailer Axle	112,550 Lbs.	51,030 Kg.	124,900 Lbs.	56,654 Kg.	138,780 Lbs.	62,959 Kg.

## GROSS VEHICLE WEIGHT

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
	223,200 Lbs.	101,243 Kg.	246,170 Lbs.	111,676 Kg.	268,190 Lbs.	121,655 Kg.

## DIMENSIONS

	Standard 60 Ton	Standard 54.5 Metric Tons	Optional 67.5 Ton	Optional 61.4 Metric Tons	Optional 75 Ton	Optional 68.1 Metric Tons
Non-Stop Turning Width	48'	14.63 M.	48'	14.63 M.	48'	14.63 M.
Dumping Angle	53°		53°		53°	
Body Plate Angles:						
Front and rear	18°		18°		18°	
Sides	20°		20°		20°	
Total braking area, tractor and trailer			2303.8 sq. in.	14.86 sq. m.		

## SERVICE INFORMATION

	U.S. GAL.	(liters)
Fuel tank	195	(738)
Lubricating system:		
Crankcase	15	(57)
Transmission	33	(125)
Differential	41	(155)
Final drive — each side	7	(26)
Cooling system	38	(144)
Total hydraulic system (steering and scraper)	92	(348)
Retarder system	7	(26)

## TIRES (Tubeless):

Standard for: Tractor, Front	18.0-25 (20 PR)
Drive	37.5-39 (28 PR)
Scraper	37.5-51 (36 PR)

Additional tires are available for special applications.