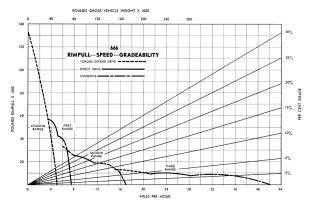
666

WHEEL TRACTOR-SCRAPER



Usable rimpull will depend upon traction available and total weight on tractor drive wheels.

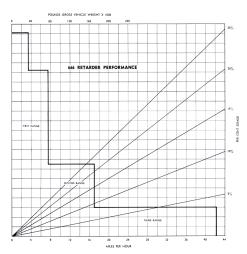


CHART INSTRUCTIONS

To determine gradeability performance (top): Read down from gross weight to existing grade. (Add rolling resistance to actual grade, 20 lb./ton=1% grade). From weight-grade point, read horizontally to maximum speed.

To determine retarded performance (bottom): Read down from gross weight to existing grade. (Subtract rolling resistance from existing grade, 20 lb./ton = 1% grade). From weight-grade point, read horizontally to maximum constant descent speed under retarder control.

Materials and specifications are subject to change without notice.



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WHEEL TRACTOR-SCRAPER
54 CU. YD. HEAPED CAPACITY

CATERPILLAR

666



The CAT 666 -

Four wheel tractor with scraper, tandem powered

- 980 HP (max.) total—560 HP tractor engine and 420 HP scraper engine for efficient, hard lugging power.
- Cat power shift transmissions with exclusive, automatic shifting in each of three ranges plus loading range. Top speed is 42 MPH.
- Operating ease and safety that increase productivity. Hydraulic retarders are standard.
- New 54 cu. yd. (heaped), 40 cu. yd. (struck) Positive Action Scraper for fast, easy loading.
- Service accessibility means more working time less maintenance time.



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· Van

SERIAL#

ttested By		

It is hereby certified the Cat 666 80-Ton Wheel Tractor-Scraper with the serial number at left is an authentic registered Classic Construction Model produced in a strictly limited single edition.

FOUR-WHEEL TRACTOR

ENGINES:

Four-cycle, turbocharged, valve-in-head, diesel. Horsepower (Maximum) 560

The maximum rating of the diesel engines used in the 666 are shown for comparative purposes.

Horsepower (Flywheel) @ 1900 RPM...... 450

Flywheel horsepower is the net horsepower at the flywheel of the standard engine operating under normal temperature and barometric conditions (up to 85° F. and 2500 ft. altitude). Standard engine equipment includes fan, air cleaners, water pump, lubricating oil pump, fuel pump and generator.

Number of cylinders..... 8 Bore and stroke, in. 5.4×6.5 Piston displacement, cu. in. 1190 NACC horsepower for USA tax purposes 93 Lubrication......Full pressure

Bearings: Main and connecting rod bearings are steel-backed aluminum alloy, lead-tin plated, precision-type. Crankshafts: High carbon steel with "Hi-Electro"

hardened journals.

Air cleaners: Dry type

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:

Tractor (Optional).

24-volt starting system for direct electric starting of diesel.

Gasoline starting engine with 24-volt starting

Scraper, separate starting motor for scraper engine. Tractor engine must be started first.

TRANSMISSIONS (tractor and scraper synchronized): Caterpillar-built power shift with exclusive TORQUE DIVIDER, providing three automatically shifted speeds in each of three manually selected ranges plus loading range, 9 forward speeds, 3 reverse speeds. Scraper transmission may be shifted to neutral independently.

STANDARD ELECTRIC ACCESSORIES:

Four sealed beams (two headlights - two floodlights) dash lights and batteries. Charging alternator and full transistor voltage regulator on direct electric starting system. Optional on gasoline starting system.

Torsionflex, bucket type, upholstered, mounted on torsion spring and shock absorber suspension assembly.

STEERING:

Full time hydraulic boost.

FRONT AXLE:

Oscillating type, wishbone construction with transverse leaf spring.

FINAL DRIVES (tractor and scraper):

Type	Planetary
Axle	l-floating
BearingsS]	olit-roller
Scraper differential	. No-Spin

TIRES (Tubeless):

Drive	 37.5 - 39	(28 PR)
Front	 18.0-25	(20 PR)

BRAKES:

Air actuated (synchronized to brake scraper first.) Drive wheels may be braked individually.

Tractor Scraper

Diameter and width...... 30" x 8" Hydraulic retarder is standard

CAPACITIES. U.S. Gallons:

Fuel tank	180	125
Lubricating System:		
Crankcase	15	9.75
Transmission	33	31
Differential	25	29
Final drive (each side)	7	6
Cooling system	38	31
Total hydraulic system (steering and scraper)		92
Retarder system	7	7

WEIGHTS, total unit

On wheels of 666, approx., lb.

Empty:

Tractor front	. 22,700
Tractor driver	. 43,100
Scraper	. 59,200
Total	. 125,000
oaded, based on 122,000 lb. average lo	ad:

Lo (3000 lb./cu. yd. material x 54 cu. yd. heaped capacity x .75 load factor)

Tractor	front,	12%	 30,000
Tractor	driver,	34%	 84,300
Scraper	, 54%		 132,700
Total .			 247,000

Width required for non-stop turn......45'6"

CONVERSION TABLE

CONVERSION TABLE

1 Mile = 1,609 Kilometers 1 Foot = 30.48 Centimeters 1 Lb. = .4538 Kilogram 1 Lb. = .4538 Kilogram 1 Lb. = .4538 Kilogram 1 Lb. Gal. = 3.785 Liters 1 Sq. 74. = .9388 Sq. Meters 1 U.S. Gal. = 3.785 Liters 1 Sq. 74. = .929 Sq. Centimeters 1 U.S. Gal. Diesel Fuel = 7.3 Lb. (approx.) 1 U.S. Gal. Diesel Fuel = 7.3 Lb. (approx.)

SCRAPER

CAPACITY:
Heaped, SAE rating
CONSTRUCTION:
Complete bowl is box section for maximum strength, minimum weight.
High tensile strength steel used in high wear and stress areas.
Draft arms removable for shipping.
BOWL:
Average height of sides. 6'10" Inside width 11'8" Maximum depth of spread. 24" Maximum depth of cut. 19" Maximum hydraulic penetration force at cutting edge, approx. 147,000 lb.
CUTTING EDGE:
Width of cut (outside router bits) 11'11.5" Dimensions: Center section . 1.12" x 16" x 68.25" Each end section 1" x 13" x 35.5" Type"Hi-Electro" hardened-reversible
EJECTOR:
Typedozer, 2-speed, positive return Control lever has detent for holding ejector return.
APRON:
Opening (bowl 6" off ground level) 9'2" Closure force (cutting edge fully raised, apron open 12"), approx 36,000 lb.

METHOD OF OPERATION:

Closed hydraulic system powered by vane type pump. Bowl, apron and ejector are independently

	controlled.
,	HYDRAULIC CYLINDERS:
	Bowl lift (2), double acting with quick drop valves cylinders isolated from circuit when carrying load. Bore and stroke
	Apron (1), double acting with sequence valve for positive closure. Bore and stroke
	Ejector (2), double acting, 2-speed. Bore (telescoping) and stroke, 8.25" to 6.5" x 89'
ı	HYDRAULIC PUMP:
	Output
١	WHEELS:
	Axles
	Bearings, preadjusted, lifetime lubricated, tapered roller with face type floating ring seals.
	Rims (5° taper) 32.00-51
1	TIRES (Tubeless)
E	BRAKES:

Hydraulic retarder is standard

DIMENSIONS:

