Cthey T2233R ROCKER



FEATURES OF THE T2233R

- Exceptional stability-load is low between the wheels.
- Articulated design eliminates frame distortion.
- Positive, controlled dumping

- Excellent payload to unit weight ratio.
- High-strength steel construction resists impact loads.
- Low, wide, profile for easy loading

33 TON ROCKER

TEREX 33TOT TRACTOR AND ATHEY T2233R TRAILER

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CAPACITY

Struck (S.A.E.)	. 22 cu. yds. (16,8 m ³)
Heaped (3:1)	24.5 cu. yds. (18,7 m ³)
Heaped (S.A.E. 2:1)	. 26 cu. yds. (19,9 m ³)
Rated Payload	33 tons
i i	66 000 lbs (29 938 kg)

TRACTOR

ENGINE

Detroit Diesel 8V-71N, 2 Cycle Diesel

Gross tractor HP @ 2100 RPM	318
Flywheel HP @ 2100 RPM	292
Number of cylinders	8
Bore and stroke	4 1/4" x 5" (108 mm x 127 mm)
Piston displacement	568 cu. in. (9,3 liters)
Maximum torque @ 1400 RPM	814 ft-lb (112,6 kg m)
Oil-MIL-L2104B	SAE 30
Fuel	No. 2-D recommended
Governor type	Limiting speed
Maximum RPM, full load	2100
Maximum RPM, no load	2250
Idle speed	700
Air cleaner(1) Donaldson dry, T-type (STG-16)

TRANSMISSION—Allison CLT-4465

Allison Torqmatic transmission with 400 series single stage converter. Automatic converter lock-up is standard in top five speed ranges. Torqmatic transmission has spur planetary gearing. Six speeds forward, one reverse, Full powershifting through hydraulically actuated multiple disc clutches.

Ratios:	1st 4.00:1	2nd 2.82:1	3rd 2.00:1
	4th 1,41:1	5th 1.00:1	6th 0.71:1
			Reverse 4.77:1
Transfer C	ase		1.28:1
Stall speed			1665 - 1765 RPM
Maximum	speed	3	1.2 MPH (50,2 km/hr)

TORQUE CONVERTER—Allison TC-490

Mounted integral with transmission. Maximum torque multiplication 2 60:1

DRIVE AXLE

Heavy duty, full floating axle with TEREX 305 single reduction bevel gear differential and planetary reduction in each wheel.

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Ratios:	Differential 3.	62:1
	Planetary 4.	59:1
	Total Reduction16.	62:1

STEERING SYSTEM

Full hydraulic type provided by two single stage, double acting cylinders. Full 90° swing to either right or left.

BRAKES

Two shoe internal expanding type, Emergency braking system and air-water separator are standard.

Brake Lining:				- 1
Diameter			' (584	
			' (178	
Lining area—tractor axle690 s	sq.	in.	(4452	cm^2)

TIRES AND RIMS

Tire Size	Rim Size
Standard - 29.5 x 29 - 34 PR, E-3	25" (635 mm)
Badial Steel Cord Tires available in 29.5 x 29 size	

ELECTRICAL

Direct electric starting, 24 volt GM. Two heavy duty 12 volt 205 amp-hr batteries. Ventilated 50 amp alternator.

SERVICE DATA

SERVICE DATA	U. S. Gal. (liters)
Water cooling system	. 22.8 gals. (86,1) . 150 gals. (667,8)
Crankcase (dry fill)	7 gals. (26,5)
Transmission and converter	8 gais. (30,3)
Drive axle—Differential	. 11.8 gals. (44,5)
Drive axle—Planetary	2 gals. (7,6)

STANDARD EQUIPMENT

Dry 'T' Type Air Cleaner, Full Flow Hydraulic Filtration, Engine Oil Pressure Gauge, Engine Temperature Gauge, Converter Oil Temperature Gauge, Clutch Pressure Gauge, Air Restriction Gauge, Positive Temperature Cooling System, Muffler, Maintenance and Parts Manuals, Emergency and Parking Brake System (SAE J-319B). Tachometer, Hourmeter, Air Pressure Gauge, Air Horn, Air Suspension Seat, Built in ROPS Pads, Full Width Front Fenders (SAE J-321A). Reverse Alarm (SAE J-994).

OPTIONAL EQUIPMENT

Options to help user comply with occupational safety and health act:

Canopy, Roll Over Protective Structure (SAE J310A) Will Fit Over Optional Cab; Seat Belt (SAE J386); Reverse Alarm (SAE J994).

Other Options

Brake Drum Guards, Cab, Cab Defroster and Heater, Sun Canopy, Down Shift Inhibitor, Power Locking Differential, Retarder, Bostrom Norseman Seat, Security Kit, Windshield and Wiper, Transmission Guard, Soundpac (Includes Cab).

TRAILER

DESIGN

Trailer is of frameless design. Smooth contours inside body expedite load dumping. Wide top opening and low profile for easy loading with a wide variety of equipment. Large single tires provide exceptional flotation while retaining maximum stability. 18° forward slope of body floor and sloping sides reduce loading shock.

CONSTRUCTION

Body is all welded high-strength steel plate, reinforced with box sections. Floor is of 5/8" (15,8 mm) T-1 plate. Side Plates are 3/8" (9,42 mm) thick, and front panel is 1/2" (12,70 mm) thick. Drawbar and draft connection are of unit construction with 7/8" (22,23 mm) bottom plate, 5/8" (15,8 mm) top plate and 3/8" (9,42 mm) side plates. Axle member is of welded construction with 4 1/2" (114.30 mm) alloy steel axles bolted into place.

OPERATION

Hydraulic power for actuating trailer body is obtained from integral, tractor-mounted hydraulic system. Trailer is actuated with a dump lever mounted to right of operator. Twin, two-stage hydraulic hoists lift body to 50° dump angle.

BRAKES

Air operated from tractor brake controls. Trailer brakes set first. Trailer has separate air reservoir and emergency relay valve to apply brakes automatically in event of air line failure. Diameter 22" (559 mm), width 7" (178 mm). Area 735 sq. in. (4742 cm²).

WHEELS

Tapered roller bearings, spring-loaded rawhide oil seals. Axles are 4 1/2" (114,3 mm) diameter of high-strength, heat-treated alloy steel

TIRES

29.5 x 29, 34 PR E3

(Opt.) Radial Steel Cord Tires available in 29.5 x 29 size.

OPTIONAL EQUIPMENT

Body Liners — Recommended for high impact service or abrasive material. Liners are T-1 steel strips, 1/2" \times 6" (12,7 mm \times 152 mm), welded to floor and 3/8" \times 10" (9,42 mm \times 254 mm) to side plates, and angles welded horizontally to inside front plate of body. Ducktail — To provide extra casting distance.

APPROXIMATE SHIPPING WEIGHTS

Tractor	27,500 II	bs.	(12,474 kg)
Trailer	26,300	bs.	(11,929 kg)

WEIGHT DISTRIBUTION (Ibs.)

WEI	Front	Rear	Total
Empty Loaded	37,300 (16,919 kg) 56,568 (25,659 kg)	16,500 (7,484 kg) 63,232 (28,682 kg)	53,800 (24,403 kg) 119,800 (54,341 kg)
% Loade		52.8	

11'3' 3429 mm

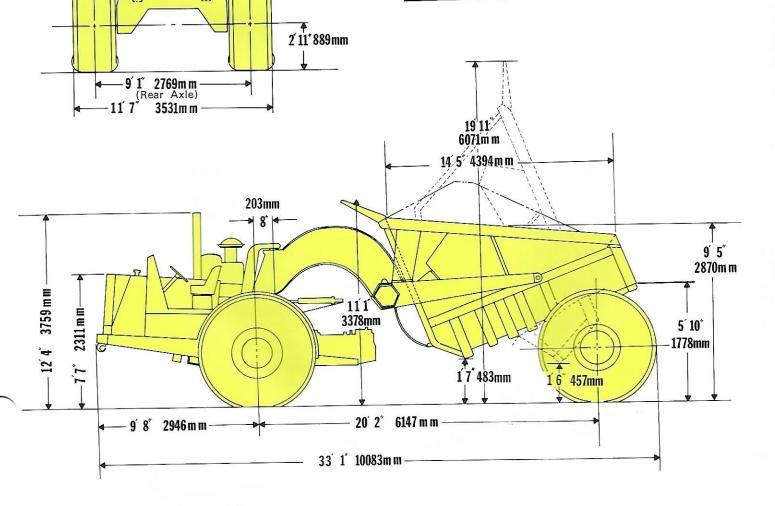
-10['] 1['] 3073mm

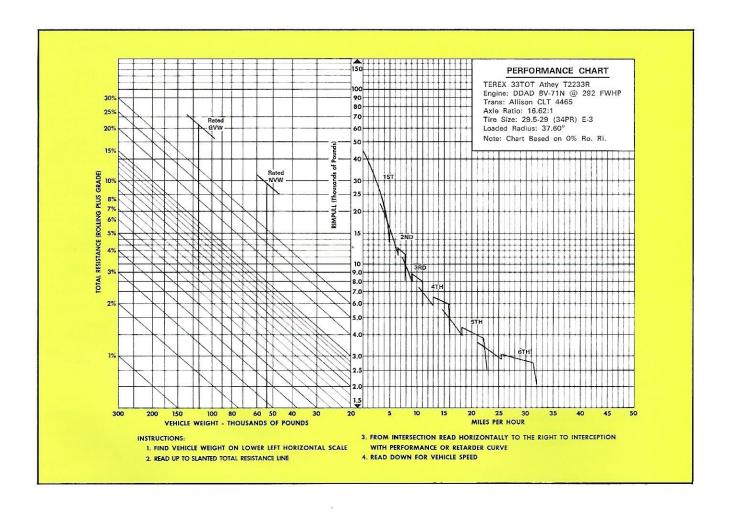
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OVERALL DIMENSIONS

CONVERSION CHART		
Width .11' 7" (3531 m Overall .8' 10" (2692 m		
Length 24′ 5″ (7442 minum) Trailer 33′ 1″ (10,084 minum) Body, inside at top 14′ 5″ (4394 minum)	m)	
Total braking area, tractor and trailer	2)	
Dumping angle	JO	
Non-stop turning width 28' (8534 mr Body up 32' (9754 mr Body down 32'	11/	
Ground Clearance	n)	
Wheelbase 20' 2" (6147 mm Haul position 14' 11" (4547 mm Dump position 14' 11" (4547 mm	117	
Tread 7'5½" (2273 mm Tractor 9' 1" (2769 mm	n) n)	
Overhang of body discharge lip behind rear tire at extreme dumping angle	n)	
Discharge height at extreme dumping angle 1' 6" (432 mm	1)	
Height Body down Top of body at extreme dumping angle Loading height, side average 11' 1'' (3378 mm 19' 11'' (6071 mm 29' 5'' (2870 mm	n)	

1 mile = 1.609 kilometers 1 foot = 30.48 centimeters 1 inch = 2.54 centimeters 1 U.S. Gal. = 3.785 liters 1 U.S. Gal. = 0.833 lmp. gals. 1 U.S. Gal. diesel fuel = 7.3 lbs. (approx.)	1 U.S. Gal. coolant 1 lb. = 0.4536 kilograms 1 sq. in. = 6.452 sq. centimeters 1 sq. yd. = 0.836 sq. meters 1 cu. yd. = 0.7646 cu. meters
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