



OPERATING WEIGHT
NET ENGINE POWER
MAX PAYLOAD
MAX SPEED

67,745 – 148,215 lbs (30,730 – 67,230 kg)
390 hp (SAE J 1349) (332 kW)
40 Tons (36.5 t)
34 mph (54.7 kph)

TEREX 

TA40 ARTICULATED HAUL TRUCK



Emission certified engine with electronic engine management

Automatic limited slip differentials in each axle for superior traction

6 x 6 all-wheel drive with efficient ground-following suspension

Spacious, comfortable cab for continuous high productivity

Oil cooled disc brakes for low operating costs

Heaped Capacity - 29 yd³ (22 m³)

FRAME

Front and rear frames are all-welded high grade steel fabrications with rectangular box-section beams forming the main side and cross members. Inter-frame oscillation is provided by a large diameter cylindrical coupling with widely-spaced polymer bearings. Frames articulate 45° to either side for steering by means of two widely-spaced pivot pins in back-to-back sealed taper roller bearings.

ENGINE

Make/Model	Detroit Diesel Series 60	
Type	Six cylinder, in line, four cycle diesel, turbocharged with air-to-air charge cooling, water-cooled. Electronic engine management.	
Piston displacement	774 in ³	(12.7 L)
Bore x stroke	5.12" x 6.30"	(130 x 160 mm)
Gross power at 2,200 rpm (SAE J 1995)	445 hp	(332 kW)
Net power at 2,200 rpm (SAE J 1349)	390 hp	(290 kW)
Maximum torque at 1,350 rpm	1,475 lbf ft	(2,000 Nm)
Engine emission meets	Tier 2 USA EPA / CARB MOH 40 CFR 89 and EU non-road mobile machinery directive. 24 volt electric start. 70A alternator. Two 12 volt 175 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.	

TRANSMISSION

ZF 6WG 310 fully automatic with manual override. The transmission assembly consists of a torque converter close-coupled to a countershaft type gearbox with integral output transfer gearing. Automatic shifting throughout the range, with kick-down feature. Lockup in all forward gears. A torque-proportioning output differential transmits drive permanently to front and rear axles. This differential may be locked by the driver for use in difficult traction conditions. Integral hydraulic retarder is standard. This operates automatically should the engine approach over speed conditions.

Gear	Forward					Reverse			
	1	2	3	4	5	6	R1	R2	R3
mph	3.7	5.8	9.1	14.1	20.7	34.0	3.7	9.1	20.7
km/h	6.0	9.3	14.6	22.7	33.3	54.7	6.0	14.6	33.3

AXLES

Three axles in permanent all-wheel drive (6 x 6) with differential coupling between each axle to prevent driveline wind-up. Heavy duty axles with fully-floating axle shafts and outboard planetary reduction gearing. Automatic limited slip differentials in each axle. Leading rear axle incorporates a through-drive differential to transmit drive to the rear most axle. This differential and the transmission output differential are locked simultaneously using one switch selected by the driver.

Differential ratio	4.86:1
Planetary reduction	4.94:1
Overall Drivetrain reduction	24.0:1

TIRES AND WHEELS

Tires	Standard 29.5 R 25 two star radial
Rims	Standard 25 x 25.00
Wheels	5-piece earthmover rims with 23 stud fixing

SUSPENSION

Front: Axle located by a three-point subframe permitting both vertical movement and oscillation. Rubber suspension elements with two heavy duty hydraulic dampers each side.

Axle vertical travel 4.2" (105 mm)

Rear: Each axle is coupled to the frame by three rubber-bushed links with lateral restraint by a transverse link. Pivoting inter-axle balance beams equalize load on each rear axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle and underside of balance beam ends.

Axle vertical travel ± 4.5" (± 115 mm)

Axle oscillation ± 9°

Pivot points on rear suspension linkages are rubber-bushed and do not require lubrication.

BRAKES

All hydraulic system with sealed, forced oil cooled, multi discs on all axles. Independent circuits for front and rear brake systems. Warning lights and audible alarm indicate low brake system pressure. Brake system conforms to ISO 3450, (SAE J 1473).

Parking	Spring-applied, hydraulic-released disc on rear driveline
Secondary	Secondary brake control actuates the service brakes
Retardation	Hydraulic retarder integral with transmission Automatic application prevents engine over-speed

STEERING

Hydrostatic power steering by two double-acting, cushioned steering cylinders. Actuating pressure for steering operation supplied by main hydraulic gear pump, driven from power take-off on transmission. Secondary steering pressure is provided by a ground-driven pump mounted on the transmission. An indicator lamp signals should the secondary system activate. Conforms to ISO 5010, (SAE J 53). Steering components are protected by advanced full flow filtration on the return line.

Steering angle to either side	45°	
Lock to lock turns, steering wheel	4	
System pressure	3,000 psi	(206 bar)

HOIST

Two single-stage, double-acting hoist cylinders, cushioned at both ends of stroke. Actuating pressure for body hoist supplied by main hydraulic gear pump, driven from power take-off on transmission. Full flow return line filtration. Hydraulic system features pressure test points for diagnostic servicing.

System pressure	2,500 psi	(172 bar)
Pump output flow rate	111 gpm	(7.03 L/sec)
Raise time, loaded	16 sec	
Power down	12.0 sec	

BODY

All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 psi (1,000 MPa) yield strength steel. 25° tail chute angle provides good load retention without tailgate.

Plate thicknesses: Floor and tailchute	0.59"	(15 mm)
Sides	0.47"	(12 mm)
Front	0.39"	(10 mm)
Volume: Struck (SAE)	22.2 yd ³	(17.0 m ³)
Heaped 2:1 (SAE)	28.8 yd ³	(22.0 m ³)

WEIGHTS

Net Distribution

Front Axle	33,675 lbs	(15,275 kg)
Bogie Axle, leading	17,085 lbs	(7,750 kg)
Bogie Axle, trailing	16,985 lbs	(7,705 kg)

Vehicle, Net 67,745 lbs (30,730 kg)

Payload 80,470 lbs (36,500 kg)

Gross Distribution

Front Axle	44,465 lbs	(20,170 kg)
Bogie Axle, leading	51,875 lbs	(23,530 kg)
Bogie Axle, trailing	51,875 lbs	(23,530 kg)

Vehicle, Gross 148,215 lbs (67,230 kg)

Bare Chassis 54,390 lbs (24,670 kg)

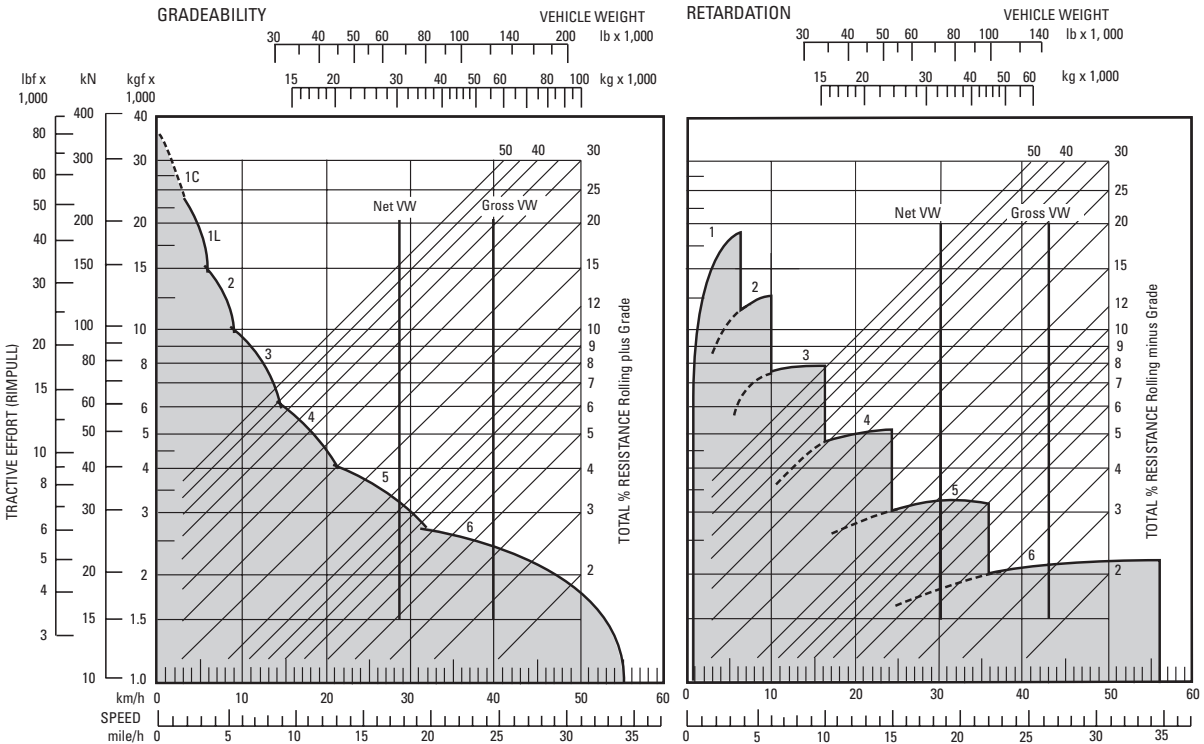
Body 11,905 lbs (5,400 kg)

Hoists, pair 1,455 lbs (660 kg)

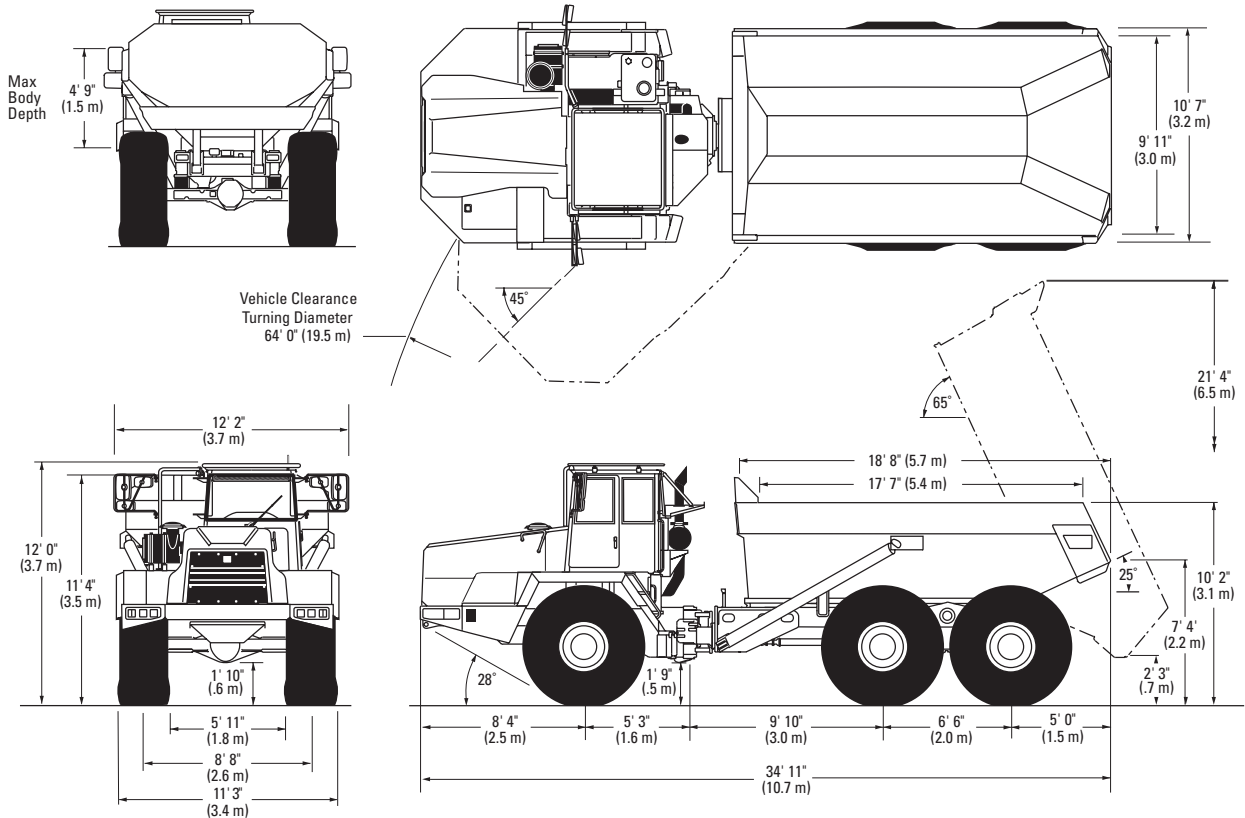
SERVICE DATA

Fuel Tank	122.0 gal	(463 L)
Hydraulic System (steering & body)	55.0 gal	(209 L)
Brake Cooling System	52.6 gal	(199 L)
Cooling System	21.1 gal	(80 L)
Engine Crankcase (with filters)	9.8 gal	(37 L)
Transmission & Filters (dry fill)	14.8 gal	(56 L)
Transmission & Filters (wet fill)	7.4 gal	(28 L)
Differential (Front)	9.9 gal	(37.5 L)
Differential (Centre)	10.0 gal	(38 L)
Differential (Rear)	8.3 gal	(31.5 L)
Planetaries (each)	2.2 gal	(8.5 L)

TA40 PERFORMANCE DATA (GRAPHS BASED ON 0% ROLLING RESISTANCE)



TA40 DIMENSIONS



Unit on 23.5 R 25 tires. For 20.5 tires reduce vertical dimensions by 2" (50 mm) and width over tires to 8' 2" (2,500 mm).



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STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Cab

Air conditioner R 134A 27,300 BTU/hr (8 kW)
 Cigarette lighter, 24V
 Engine diagnostic facility
 Inspection lamp socket, 24V
 Heater and demister 32,400 BTU/hr (9.5 kW)
 Insulation, thermal and acoustic
 Interior light
 Mirrors, rear view, 6
 Mug holder
 Radio / cassette player
 ROPS/FOPS protection
 (ISO 3471/3449, SAE J 1040, Apr 88/
 (SAE J 231)
 Seat belts, retractable (SAE J 386)
 Seat, operator, air suspension, high back, headrest
 And adjustable armrests
 Seat, passenger
 Storage compartment
 Sun blind
 Sun visor (external)
 Tinted glass
 Transmission visual display unit
 Window protection grille, rear
 Wiper and washer, front and rear windows

Gauges

Fuel level
 Speedometer, with odometer
 Tachometer, with hourmeter
 Transmission oil temp.

Indicator Lights

Direction indicators
 Headlight high beam
 Retarder

Warning Lights

Body up
 Brake pressure balance
 Front/rear
 Brake pressures (2)
 Check engine
 Coolant level
 Inter-axle diff. Locks "on"
 Parking brake "on"
 Secondary steering
 Stop engine
 Transmission "stop"
 Warning lights test button
 Audible warning of low brake pressure

General

Air filter, dual element with restriction indicator
 Articulation locking bar
 Battery master switch
 Body prop
 Brake splash guards
 Diagnostic pressure test
 Points
 Engine hood, hinged
 Engine underguard, hinged
 Exhaust muffler
 Fan, modulating
 Horn, electronic 117dB,

Hydraulic filter restriction
 Indicator
 Hydraulic oil cooler
 Hydraulic retarder
 Mudflaps, front
 Neutral start interlock
 Nitrogen inflated tires
 Rear light guards
 Reverse alarm, audible (SAE J 994)
 Security kit
 Tow points, front and rear

Lights

High level working lamps
 Headlamps, 4, halogen.
 Side, tail, stop, reverse &
 hazard warning lights
 Direction indicators

Body Options

Exhaust heating
 Liner plates
 Side extensions
 Spillguard extension (folding)
 Tailgate - scissor, chain operated
 Tailgate, underhinged

Lights

Beacon, flashing
 Fog, rear
 Reverse, flashing
 Working, rear facing

OPTIONAL EQUIPMENT

Automatic lubrication
 Engine brake (Jacobs)
 Fire extinguisher
 Headlamp guards, hinged
 Mirror, front mounted
 Mud flaps, in front of leading
 rear wheels
 Tachograph
 Television monitor, rear view
 Tool kit, hand



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