



ARTICULATED TRUCK



TA40

Specifications:

Max Gross Vehicle Weight	151,579 lbs (68,820 kg)
Gross Engine Power	450 hp (336 kW)
Max Payload	42 tons (83,775 lbs)
Heaped Capacity	30.3 yd ³ (23.3 m ³)

Features:

- Exceptionally smooth riding trailing arm suspension offers the potential to increase productivity.
- Rugged 450 hp (336 kW) Detroit Series 60 turbocharged diesel engine provides superior performance and productivity.
- Standard six wheel wet braking system reduces brake maintenance and offers superior downhill haulage capabilities when combined with the standard engine brake retarder and variable range transmission retarder.
- State-of-the-art cab features an operator-friendly environment for more productive work cycles.
- Enormous 30.3 yd³ (23.3 m³) heaped capacity body is available with new "high opening" tailgate that increases capacity when material weight and type allows.
- The extensive list of options allows for a truly custom configured truck built to your needs.



Standard Equipment

Engine

Make / Model	Detroit Diesel Series 60
Type	6 cylinder, in line, four cycle diesel, water-cooled, turbocharged with air-to-air cooling, electronic engine management.
Piston displacement	855 in ³ (14 L)
Bore x stroke	5.24 x 6.61 in (133 x 168 mm)
Gross power @ 2,000 rpm (SAE J 1995)	450 hp (336 kW)
Net power @ 2,000 rpm (SAE J 1349)	437 hp (326 kW)
Maximum torque at 1,350 rpm	1,548 lbf ft (2,100 Nm)
Engine emission meets USA EPA Tier 3 /CARB MOH 40 CFR 89 Tier 3 and proposed EUNRMM (non-road mobile machinery directive) Tier 3.	
24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.	

Note: Net horsepower with fan clutch disengaged.

Transmission

Direct mounted Allison HD 4560 planetary gearbox is electronically controlled with six speeds forward and one reverse. Integral lockup clutch improves fuel economy and operator selectable top gear increases control. Outboard transmission retarder is standard and two speed drop box increases performance options.

Low Range	Forward						Reverse	
	Gear	1	2	3	4	5	6	1
mph	3.4	7.3	10.5	16.0	20.5	23.3	3.0	
km/h	5.5	11.7	16.9	25.8	33.0	37.5	4.8	
High Range	Gear	1	2	3	4	5	6	1
	mph	5.2	11	16.0	24.5	31.5	37.3	4.6
km/h	8.4	17.8	25.8	39.5	50.4	60.0	7.4	

Frame

Front and rear frames are grade steel fabrications with rectangular box-section. Oscillation is provided by a large diameter cylindrical coupling with widely-spaced polymer bearings. Frames articulate 45° to either side.

Tires and Wheels

Tires	Standard 29.5 R 25 two star radial.
Rims	Standard 25 x 25.00
Wheels	3-piece earthmover rims with 19 stud fixing

Suspension

Front: Four trailing links provide a high roll center. Long suspension travel, combined with the two heavy duty dampers each side give excellent handling and ride.

Rear: Each axle is coupled to the frame by three rubber-bushed links and a transverse link. Pivoting inter-axle balance beams equalize load on each rear. Pivot points on leading and trailing links are maintenance-free.

Axles

Three axles in permanent all-wheel drive (6 x 6) with differential coupling between each axle. 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 rearmost axle. This differential and the transmission output differential are locked using one switch selected by the operator.

Differential ratio	3.70:1
Planetary reduction	6.35:1
Overall drivetrain reduction	23.50:1

Brakes

All hydraulic braking system with oil cooled wet brakes on each wheel. 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	Engine brake and transmission retarder are standard. Only engine brake operates automatically should engine approach over-speed condition.

Steering

Hydrostatic power steering by two double-acting cushioned steering cylinders supplied by a variable displacement / piston pump. Secondary steering is provided by a ground driven pump mounted on the dropbox. An audible alarm and warning light indicates should the secondary system activate.

System conforms to ISO 5010, SAE J53

Steering angle to either side	45°
Lock to lock turns, steering wheel	4
System pressure	3,480 psi (240 bar)

Hoist

Two double acting hoist cylinders are driven by a load sensing piston pump with control from an electro hydraulic control system. Power down is standard.

System pressure	3,480 psi (240 bar)
Pump output flow rate	85.6 gpm (5.4 L/sec)
Raise time, loaded	12.5 sec
Power down	8.0 sec

Standard Equipment

<p>CAB</p> <p>Air conditioner 35,500 BTU/hr (10.4 kW)</p> <p>Cigar lighter, 24V</p> <p>Coathook</p> <p>Engine diagnostic facility</p> <p>Heater and demister 35,415 BTU/hr (9.5 kW)</p> <p>Hydraulic diagnostic facility RS232</p> <p>Inspection lamp socket, 24V</p> <p>Insulation, thermal and acoustic</p> <p>Interior light</p> <p>Mirrors, rear view, 4</p> <p>Mug holder</p> <p>Radio/CD</p> <p>Seat, trainer</p> <p>ROPS/FOPS protection ISO 3471/3449</p> <p>SAE J1040 Apr 88/J231</p> <p>Seat belts, retractable J386</p>	<p>Seat, operator, air suspension</p> <p>Steering wheel, tilt/telescopic</p> <p>Storage compartment</p> <p>Sun blind</p> <p>Tinted glass</p> <p>Transmission visual</p> <p>Display unit</p> <p>Window protection grille, rear</p> <p>Wiper and washer, front and rear windows</p> <p>GAUGES</p> <p>Fuel level</p> <p>Hourmeter</p> <p>Speedometer/odometer</p> <p>Tachometer</p> <p>Transmission temperature</p> <p>Water temperature</p> <p>Volt meter</p> <p>Brake cooling temperature</p>	<p>INDICATOR LIGHTS</p> <p>Turn signals</p> <p>Headlight high beam</p> <p>AUDIBLE ALARMS</p> <p>Brakes tractor, low pressure</p> <p>Brakes trailer, low pressure</p> <p>Engine stop</p> <p>Transmission check</p> <p>Steering, low pressure</p> <p>Engine check</p> <p>Diff locks</p> <p>WARNING LIGHTS</p> <p>Alternator charging</p> <p>Body up</p> <p>Brake pressure - front and rear</p> <p>Engine check</p> <p>Engine 'Stop'</p> <p>Fuel, low level</p> <p>Diff. locks 'On'</p> <p>Parking brake 'On'</p>	<p>Steering pressure</p> <p>Transmission check</p> <p>Oil filter change</p> <p>Air filter change</p> <p>GENERAL</p> <p>Air filter, dual element with restriction indicator</p> <p>Articulation locking bar and oscillation lock pin</p> <p>Battery master switch</p> <p>Body prop</p> <p>Diagnostic test points</p> <p>Downshift inhibitor</p> <p>Engine underguard, hinged</p> <p>Engine brake</p> <p>Fan, modulating</p> <p>Headlamp guards</p> <p>Horn, electronic</p> <p>LIGHTS</p> <p>Headlamps, 4, halogen side, tail, stop, reverse.</p>	<p>Hazard warning and direction indicators</p> <p>Work lights, roof-mounted</p> <p>Light guards, rear</p> <p>Mudflaps, front</p> <p>Mudflaps, in front of leading rear wheels</p> <p>Neutral start interlock</p> <p>Pivot protection guard</p> <p>Reverse alarm, audible J994</p> <p>Servo body hoist</p> <p>Tow points, front and rear</p> <p>Transmission sump guard</p> <p>Tire Inflation, nitrogen (6 tires)</p>
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CONSULT YOUR TEREX REPRESENTATIVE FOR AVAILABLE OPTIONAL EQUIPMENT

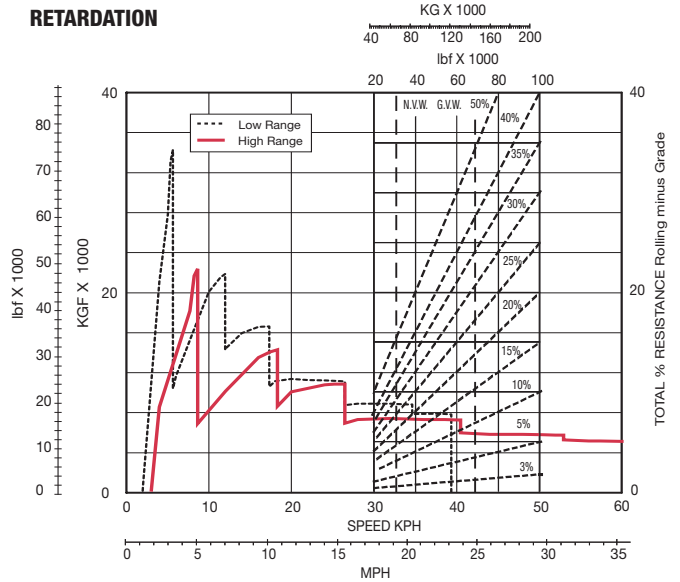
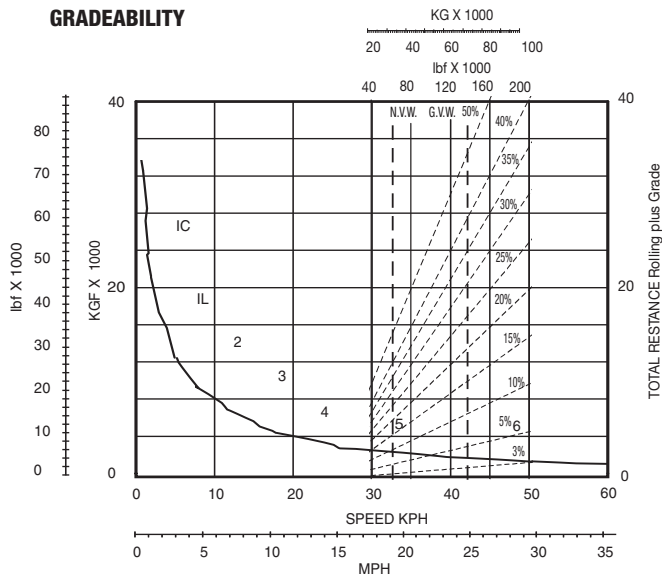
Weights

Net Distribution	
Front axle	34,936 lbs (15,880 kg)
Bogie axle, leading	16,500 lbs (7,500 kg)
Bogie axle, trailing	16,368 lbs (7,440 kg)
Vehicle, Net	67,804 lbs (30,820 kg)
Payload	83,775 lbs (38,000 kg)
Gross Distribution	
Front axle	40,304 lbs (18,320 kg)
Bogie axle, leading	55,000 lbs (25,000 kg)
Bogie axle, trailing	55,000 lbs (25,000 kg)
Vehicle, Gross	151,579 lbs (68,820 kg)
Hoists, pair	1,455 lbs (660 kg)

Capacities

Fuel tank	119 gal (450 L)
Hydraulic system	87.2 gal (330 L)
Cooling system	17.7 gal (67 L)
Engine crankcase (with filters)	8.4 gal (32 L)
Dropbox	2.6 gal (10 L)
Transmission & filters (including cooler)	16.1 gal (61 L)
Transmission & filters (wet fill)	7.4 gal (28 L)
Differential (front)	8.7 gal (33 L)
Differential (center)	8.9 gal (34 L)
Differential (rear)	8.7 gal (33 L)
Planetaries (each)	2.4 gal (9 L)

Performance Data (Graphs Based on 0% Rolling Resistance)



Dimensions

Body

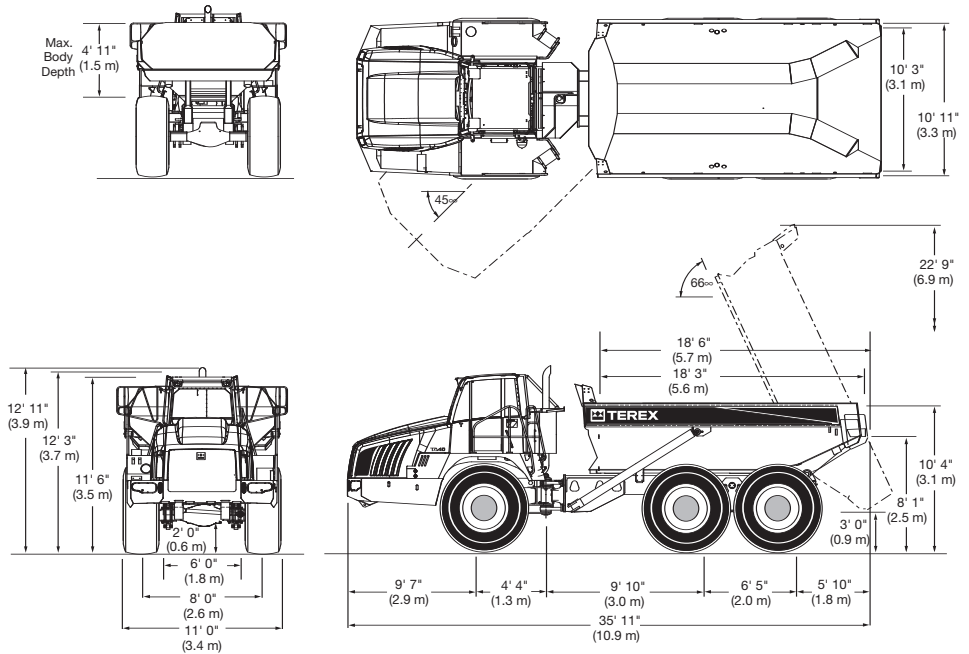
All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 psi (1,000 MPa) yield strength steel. Dual slope tailchute improves material ejection from body.

Plate thicknesses:

Floor and tailchute	0.59 in (15 mm)
Sides	0.47 in (12 mm)
Front	0.31 in (8 mm)

Volume:

Struck (SAE)	20.3 yd ³ (15.5 m ³)
Heaped 2:1 (SAE)	27.5 yd ³ (21.0 m ³)



Effective Date: December, 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks, or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. © 2008 Terex Corporation.

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