

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)



# 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)



### **TA40** ARTICULATED HAUL TRUCK

#### 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**

LIAGUAL				
Make/Model		Detro	oit Diesel Series 60	
Type	Six cylinder, in line, four cy	cle diesel, turbocha	rged with air-to-air	
	charge cooling, water-o	cooled. Electronic er	ngine management.	
Piston displace	ment	774 in <sup>3</sup>	(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 indic	ator.			

#### **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.

	Forward					Reverse			
Gear	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 reduct	tion		;	24.0:1

#### **TIRES AND WHEELS**

lires	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 mi

**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  $\pm 4.5 \text{ ($\pm$ 115 mm)}$  Axle oscillation  $\pm 9 \text{ ($\pm$ 105 mm)}$ 

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

#### **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

45°

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.

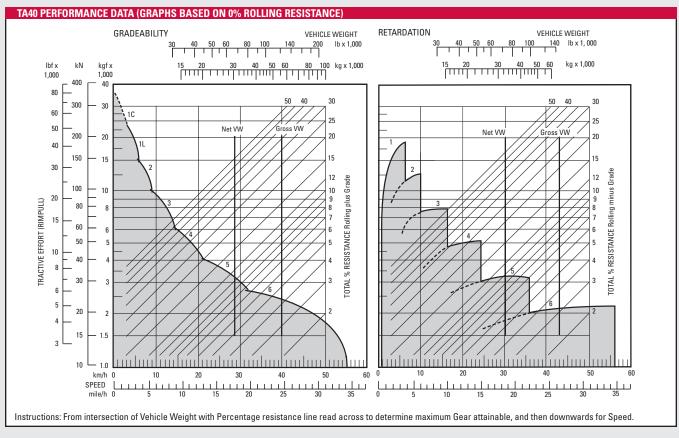
Plate thicknesses: Floor and tailchute	0.59"	(15 mm)
Sides	0.47"	(12 mm)
Front	0.39"	(10 mm)
Volume: Struck (SAE)	22.2 yd <sup>3</sup>	(17.0 m <sup>3</sup> )
Heaned 2:1 (SAF)	28 8 vd <sup>3</sup>	(22 f) m <sup>3</sup> )

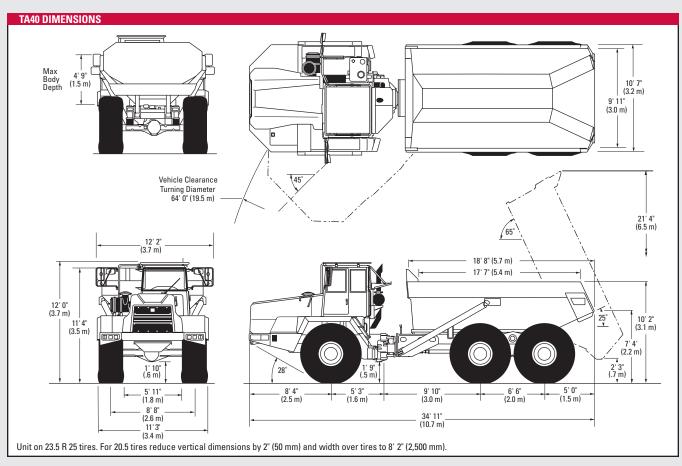
#### WEIGHTS

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)







**OPERATING WEIGHT NET ENGINE POWER MAX PAYLOAD MAX SPEED** 

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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** 

Bodv 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

**OPTIONAL EQUIPMENT** 

Automatic lubrication

Engine brake (Jacobs)

Fire extinguisher

Headlamp quards, hinged

Mirror, front mounted Mud flaps, in front of leading

rear wheels

Tachograph

Television monitor, rear view

Tool kit, hand

#### **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



**COMPACT EXCAVATORS** 

WHEEL LOADERS

TRACTOR LOADER BACKHOES

SOIL COMPACTORS

**RIGID HAUL TRUCKS** 

**ARTICULATED HAUL TRUCKS** 

**SCRAPERS** 

**TELEHANDLERS** 

**Terex** 

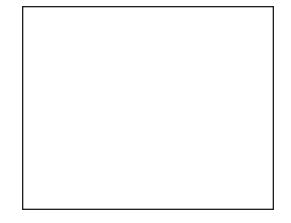
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