TEREX

•

- **D** Emission-certified engine with electronic engine management
- □ Automatic limited slip differentials in each axle for superior traction
- **G** 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 - 22 m³ (29 yd³)

-•



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
 12.7 litres (774 cu. in.)

 Bore x Stroke
 130 x 160 mm (5.12 x 6.30 in)

 Gross power to SAE J1995
 332 kW (445hp, 451 PS)

 Net power at 2 200 rev/min
 291 kW (390 hp, 395 PS)

 Maximum Torque
 2 000 Nm (1 475 lbf. ft.) at 1 350 rev/min

Gross Power rated to SAE J1995 Jun 90.

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 closecoupled 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 overspeed conditions.

Forward					Reverse					
Gear	1	2	3	4	5	6	1	2	3	
km/h	6.0	9.3	14.6	22.7	33.3	54.7	6.0	14.6	33.3	
mile/h	3.7	5.8	9.1	14.1	20.7	34	3.7	9.1	20.7	

- Axles

Three axles in permanent all-wheel drive (6×6) 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 rearmost axle. This differential and the transmission output differential are locked simultaneously using one switch selected by the driver.

Tyres and Wheels

2



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 105 mm (4.2 in)

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 equalise load on each rear axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle and underside of balance beam ends.

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 J1473.

- 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 overspeed



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 J53.

Steering components are protected by advanced full flow filtration on the return line.

Steering angle either side	
Lock to lock turns, steering wheel	4
System Pressure	206 bar (3 000 lbf/in ²)

P 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	172 bar (2 500 lbf/in ²)
Pump output flow rate	7.03 litre/sec (111 US gal/min)
Raise time, loaded 16 sec. Power	down 12 sec.



All welded construction, fabricated from high hardness

- 14	
_ <u> </u>	

Tyres:29.5 R 25 two star radial.Rims:25 x 25.00 .Wheels:5-piece earthmover rims with 23 stud fixing

(min. 360 BHN) 1 000 MPa (145 000 lbf/in²) yield strength steel. 25° tail chute angle provides good load retention without tailgate.

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

148714 TA40 ENGLISH

1/24/02, 8:35 AM



۲



•





Standard Equipment

Standard equipment fitted may vary from country to country. Consult your local dealer.

Brake Pressures (2)

Check Engine

Coolant Level

Stop Engine

Audible Warning of

Body Prop

Points

Exhaust Muffler

Fan, modulating

Hydraulic Retarder

Indicator Hvdraulic Oil Cooler

Lights:

General:

Parking Brake 'On'

Transmision 'Stop'

Low Brake Pressure

Secondary Steering

Warning Lights continued:

Inter-Axle Diff. Locks 'On'

Warning Lights Test Button

Air Filter, Dual Element with

Restriction Indicator

Articulation Locking Bar

Battery Master Switch

Brake Splash Guards

Engine Hood, hinged

Horn, electronic 117dB,

Hydraulic Filter Restriction

High Level working Lamps

Side, Tail, Stop, Reverse &

Headlamps, 4, Halogen.

Hazard Warning Lights

Reverse Alarm, Audible J994

Tow Points, front and rear

Direction Indicators

Neutral Start Interlock

Nitrogen Inflated Tyres Rear Light Guards

Mudflaps, front

Security Kit

Diagnostic Pressure Test

Engine Underguard, hinged

Cab:

Air Conditioner R 134A 8 kW (27 300 BTU/hr) Cigar Lighter, 24v Engine Diagnostic Facility Inspection Lamp Socket, 24v Heater and Demister 9.5 kW (32 400 BTU/hr) Insulation, Thermal and Acoustic Interior Light Mirrors, Rear View, 6 Mug Holder Radio / Cassette Player ROPS/FOPS Protection ISO 3471/3449 SAE J1040 Apr 88/J231 Seat Belts, Retractable J386 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

Optional Equipment

4

Automatic Lubrication Body Options: **Exhaust Heating** Liner Plates Side Extensions Spillguard Extension (folding) Tailgate - Scissor, chain operated Tailgate, Underhinged Engine Brake (Jacobs) Fire Extinguisher Headlamp Guards, hinged

Lights: Beacon, flashing Fog, rear Reverse, flashing Working, rear facing Mirror, front mounted Mud Flaps, in front of leading rear wheels Tachograph Television Monitor, Rear View Tool Kit, Hand

Weights

	kg	lb
Net Distribution Front Axle Bogie Axle, leading Bogie Axle, trailing	15 275 7 750 7 705	33 675 17 085 16 985
Vehicle, Net	30 730	67 745
Payload	36 500	80 470
Gross Distribution Front Axle Bogie Axle, leading Bogie Axle, trailing	20 170 23 530 23 530	44 465 51 875 51 875
Vehicle, Gross	67 230	148 215
Bare Chassis	24 670	54 390
Body Hoists, pair	5 400 660	11 905 1 455

Service Data

Fuel tank	463 litres (122.0 US gal
Hydraulic System	
(steering, braking & body)	209 litres (55 US gal
Brake Cooling System	199 litres (52.6 US gal
Cooling System	80 litres (21.1 US gal
Engine Crankcase (with filters)	37 litres (9.8 US gal
Transmission & Filters (dry fill)	56 litres (14.8 US gal
Transmission & Filters (wet fill)	28 litres (7.4 US gal
Differential (Front)	37.5 litres (9.9 US gal
Differential (Centre)	
Differential (Rear)	31.5 litres (8.3 US gal
Planetaries (each)	8.5 litres (2.2 US gal

(�)

DISTRIBUTOR:





1/24/02, 8:35 AM