

B25E 6x6 23 000 L Articulated Water Tanker

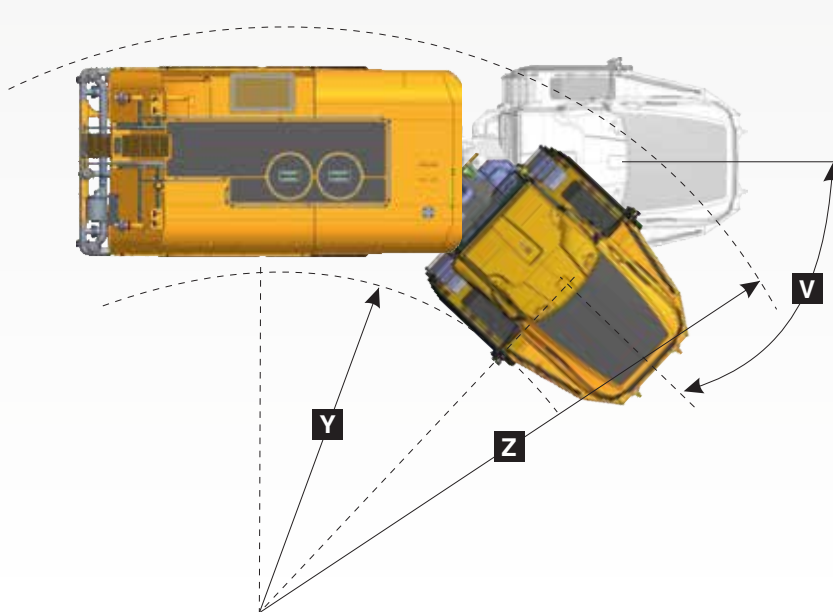
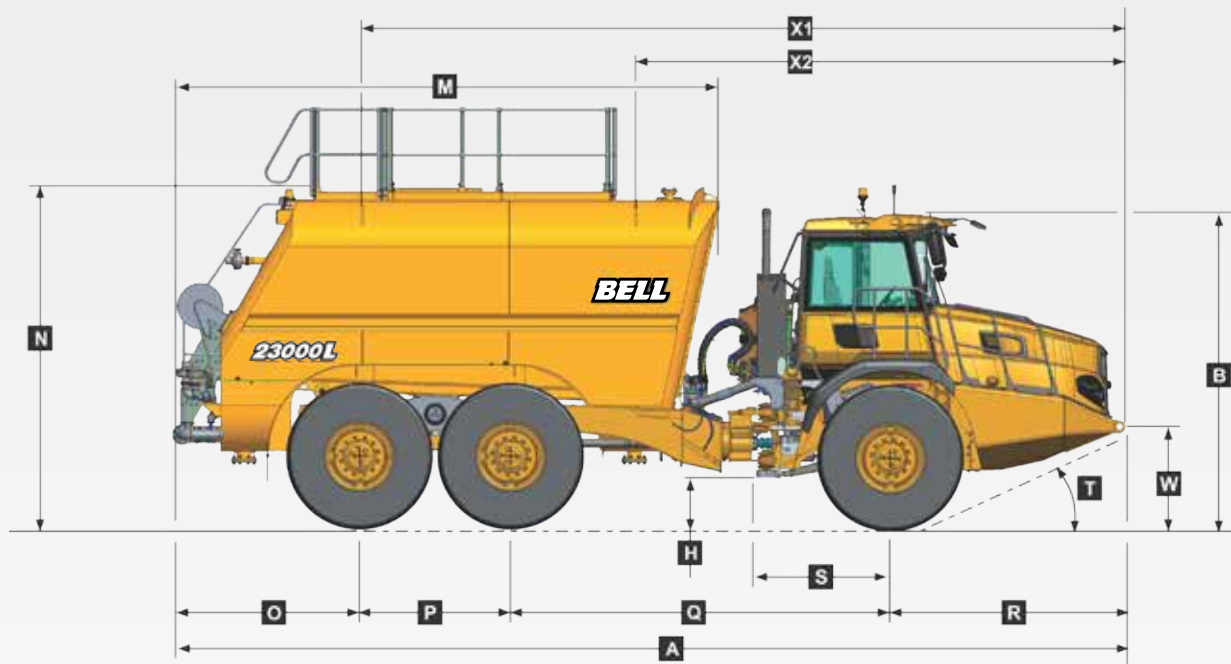


ENGINE	TRANSFER CASE	WHEELS	ELECTRICAL SYSTEM																					
Manufacturer Mercedes Benz	Manufacturer Kessler	Type Radial Earthmover	Voltage 24 V																					
Model OM906LA	Series W1400	Tyre 23.5 R 25	Battery Type Two AGM (Absorption Glass Mat) type																					
Configuration Inline 6, turbocharged and intercooled.	Layout Remote mounted	FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts	Battery Capacity 2 X 75 Ah																					
Net Power 205 kW (275 hp) @ 2 200 rpm in accordance with UN ECE R120	Gear Layout Three in-line helical gears	REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks	Alternator Rating 28 V 80 A																					
Gross Torque 1 100 Nm (811 lbft) @ 1 200 -1 600 rpm	Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.	HYDRAULIC SYSTEM Full load sensing system serving the prioritized steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.	VEHICLE SPEEDS <table><tr><td>1st</td><td>7 km/h</td><td>4 mph</td></tr><tr><td>2nd</td><td>15 km/h</td><td>9 mph</td></tr><tr><td>3rd</td><td>23 km/h</td><td>14 mph</td></tr><tr><td>4th</td><td>35 km/h</td><td>22 mph</td></tr><tr><td>5th</td><td>47 km/h</td><td>29 mph</td></tr><tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>R</td><td>7 km/h</td><td>4 mph</td></tr></table>	1st	7 km/h	4 mph	2nd	15 km/h	9 mph	3rd	23 km/h	14 mph	4th	35 km/h	22 mph	5th	47 km/h	29 mph	6th	50 km/h	31 mph	R	7 km/h	4 mph
1st	7 km/h	4 mph																						
2nd	15 km/h	9 mph																						
3rd	23 km/h	14 mph																						
4th	35 km/h	22 mph																						
5th	47 km/h	29 mph																						
6th	50 km/h	31 mph																						
R	7 km/h	4 mph																						
Displacement 6,37 litres (389 cu.in)	AXLES Manufacturer Bell		WATER TANK Tank capacity 23 000 Litres																					
Auxiliary Brake Exhaust Valve Brake Engine Valve Brake	Model 15T	Pump Type Variable displacement load sensing piston	WATER TANKER PLUMBING Centrifugal water pump																					
Fuel Tank Capacity 379 litres (100 US gal)	Differential High input limited slip differential with spiral bevel gears.	Flow 165 l/min (44 gal/min)	Rate of Flow Standard: 1 800 L/min with 50 m head																					
Certification OM906LA meets EU Stage II/EPA Tier 2 emissions regulations.	Final Drive Outboard heavy duty planetary on all axles	Pressure 28 Mpa (4 061 psi)	Option: 5 400 L/min with 70 m head																					
TRANSMISSION	BRAKING SYSTEM	STEERING SYSTEM	CAB																					
Manufacturer Allison	Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).	Filter 5 microns	ROPS/FOPS certified 72 dBA internal sound level measured according to ISO 6396.																					
Model 3500PR ORS	Maximum brake force: 184 kN (41 400 lbf)	Lock to lock turns 4,1																						
Configuration Fully automatic planetary transmission with integral retarder.	Park & Emergency Spring applied, air released driveline mounted disc.	Steering Angle 45°																						
Layout Engine mounted	Maximum brake force: 195 kN (43 900 lbf)	PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.																						
Gear layout Constant meshing planetary gears, clutch operated	Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.	System Pressure 810 kPa (117 psi)																						
Gears 6 Forward, 1 Reverse	Total Retardation Power 250kW (335 hp) Continuous 539 kW (723 hp) Maximum																							
Clutch Type Hydraulically operated multi-disc																								
Control Type Electronic																								
Torque Control Hydrodynamic with lock-up in all gears.																								

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage/Total Contact Area Method)		Rated Payload	23 000 litres (6 000 gallons)
	kg (lb)	23.5 R 25	kPa (Psi)		
Total	20 728 (45 697)	Front	267 (38,7)		
		Middle/Rear	357 (51,8)		
LADEN		Calculation method used by competition			
	kg (lb)				
Front	12 372 (27 276)	Front	131 (19)		
Middle	16 198 (35 710)	Middle/Rear	155 (22,5)		
Rear	16 158 (35 622)				
Total	44 728 (98 608)				

Dimensions

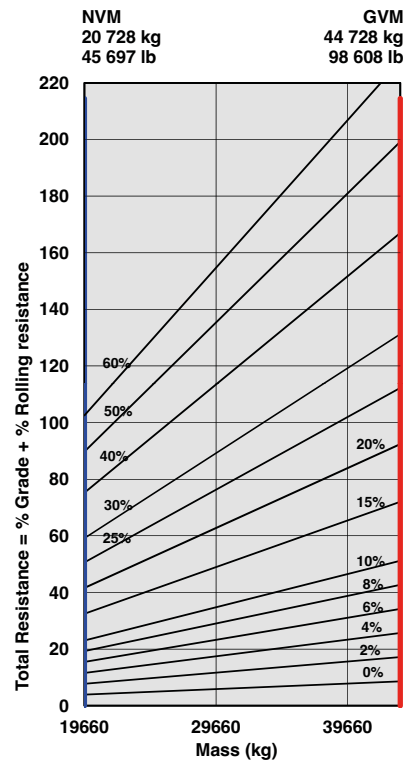


Machine Dimensions

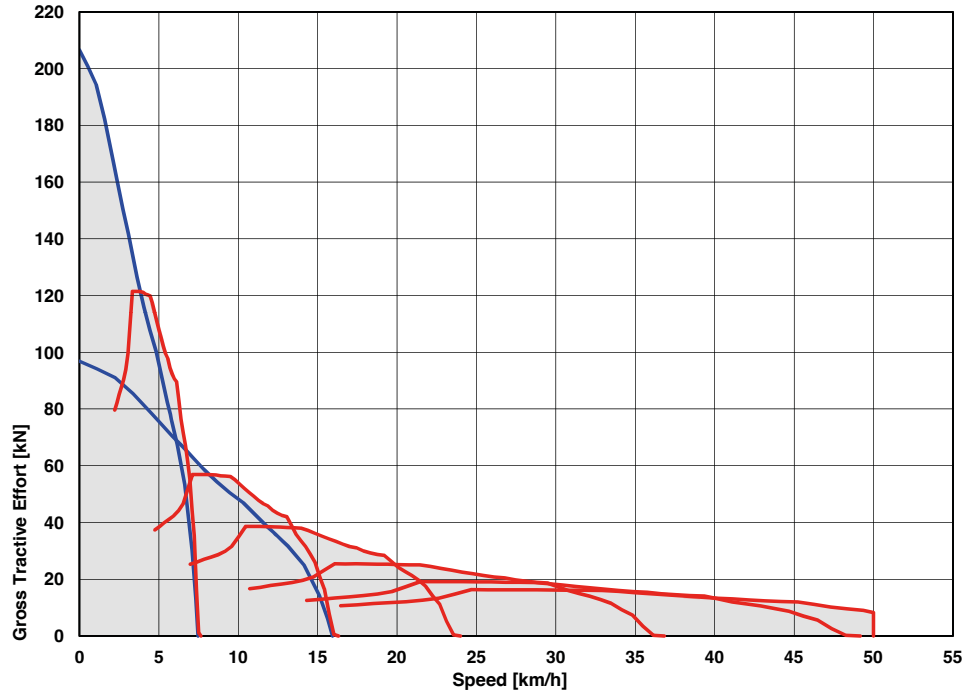
A	Length - Transport Position	10355 mm	(34 ft. 6 in.)	O	Rear Axle Centre to Bowser / Tank Rear	2 072 mm	(6 ft. 10 in.)
B	Height - Transport Position	3 436 mm	(11 ft. 3 in.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm	(5 ft. 6 in.)
C	Width over Mudguards	2 985 mm	(9 ft. 6 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm	(13 ft. 9 in.)
D	Width over Tyres - 23.5R25	2 940 mm	(9 ft. 8 in.)	R	Front Axle Centre to Machine Front	2 602 mm	(8 ft. 9 in.)
E	Tyre Track Width - 23.5R25	2 356 mm	(7 ft. 9 in.)	S	Front Axle Centre to Artic Centre	1 362 mm	(4 ft. 65 in.)
F	Width over Tank / Bowser	2 855 mm	(9 ft. 4 in.)	T	Approach Angle	25°	
F	Width over Tank / Bowser (with hose)	3 005 mm	(9 ft. 4 in.)	V	Maximum Articulation Angle	45°	
G	Width over Mirrors - Operating Position	3 260 mm	(10 ft. 8 in.)	W	Front Tie Down Height	1 075 mm	(3 ft. 6 in.)
H	Ground Clearance - Artic	537 mm	(1 ft. 9 in.)	X1	Tank Lifting Centres	8 359 mm	(27 ft. 5 in.)
I	Ground Clearance - Front Axle	488 mm	(1 ft. 7 in.)	X2	Front Lifting Centre to Tank Lifting Centre	5 334 mm	(17 ft. 6 in.)
M	Tank / Bowser Length	6 020 mm	(19 ft. 9 in.)	Y	Inner Turning Circle Radius - 23.5R25	4 110 mm	(13 ft. 6 in.)
N	Maximum Tank Height	3 510 mm	(12 ft. 8 in.)	Z	Outer Turning Circle Radius - 23.5R25	8 000 mm	(26 ft. 3 in.)

Gradeability/Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

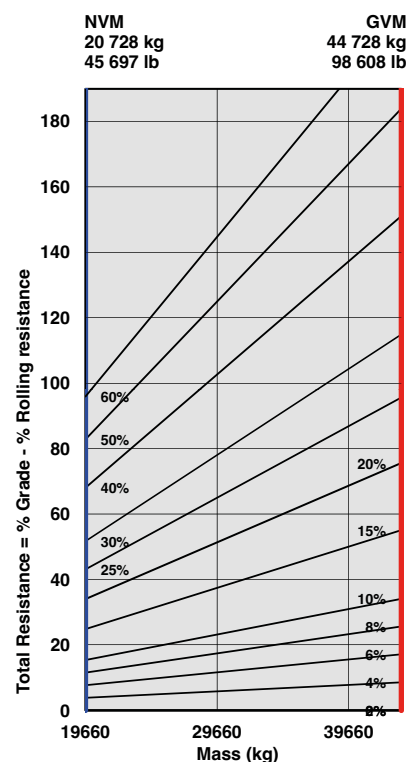


B25E 6x6, 23 000 L Water Tanker - Tractive Effort

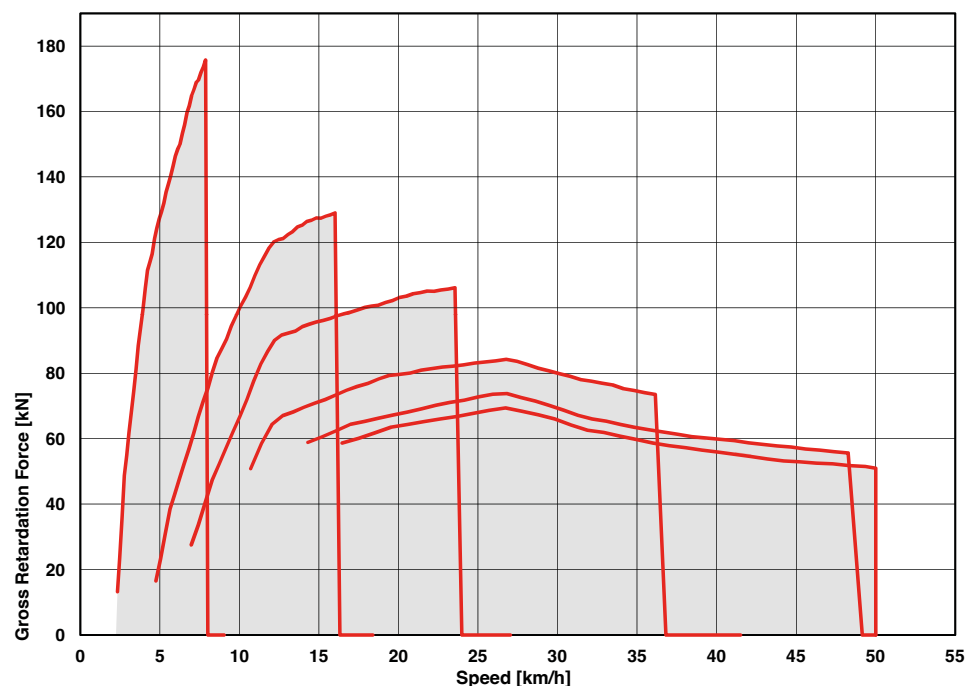


Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight right across charts until line intersects the curve. NOTE: 2% typical rolling resistance is already assumed in chart.
3. Read down from this point to determine maximum speed.



B25E, 23 000 L Water Tanker - Retardation



BATTER SPRAYS

- Two additional spray valves that expand the spray patterns reach on the sides of the tank
- Remotely activated from inside the cab



HOSE REEL

- 30m hose reel
- 1.5" adjustable fog/stream nozzle
- Spring retractable



DRIBBLE BAR

- Gravity fed dribble bar
- Remotely activated from inside the cab
- Even spread pattern covering the width of the vehicle



PENETRATION SPRAY BARS

- Available with nozzles or holes
- Remotely activated from inside the cab
- Pressurised by the pump to create a jet of water





REMOTE WATER CANNON

- Adjustable fog/stream pattern
- A variety of flow settings between 250 and 700 GPM
- Remotely controlled via a joystick inside the cab
- High quality components built to last in heavy duty applications

MANUAL WATER CANNON

- Long range spray nozzle
- High quality components built to last in heavy duty applications



16 000 L	18 000 L	23 000 L	27 000 L	35 000 L	38 000 L	45 000 L	
●	●	●	●	●	●	●	ENGINE
●	●	●	●	●	●	●	Engine valve brake and exhaust brake
●	●	●	●	●	●	●	Dual element air cleaner with dust ejector valve
●	●	●	●	●	●	●	Precleaner with auto dust scavenging
●	●	●	●	●	●	●	Water separator
●	●	●	●	●	●	●	Serpentine drive belt with automatic tensioner
▲	▲	▲	▲	●	●	●	Provision for fast fill
▲	▲	▲	▲	●	●	●	Wet-sleeve cylinder liners
							COOLING
●	●	●	●	●	●	●	Crank-shaft mounted viscous-drive fan
●	●	●	●	●	●	●	Fan guard
							PNEUMATIC SYSTEM
●	●	●	●	●	●	●	Engine-mounted compressor
●	●	●	●	●	●	●	Air drier with heater
●	●	●	●	●	●	●	Integral unloader valve
							ELECTRICAL SYSTEM
●	●	●	●	●	●	●	Battery disconnect
●	●	●	●	●	●	●	Drive lights
●	●	●	●	●	●	●	Air horn
●	●	●	●	●	●	●	Reverse alarm
●	▲	▲	▲	▲	▲	▲	White noise reverse alarm
●	●	●	●	●	●	●	Rotating beacon
●	●	●	●	●	●	●	Pitch roll sensor
▲	▲	▲	▲	▲	▲	▲	LED drive lights
▲	▲	▲	▲	●	●	●	Halogen artic reverse light
▲	▲	▲	▲	▲	▲	▲	LED artic reverse light
●	●	●	●	●	●	●	LED reverse light
							STEERING SYSTEM
●	●	●	●	●	●	●	Uni-directional ground-driven secondary steering pump
▲	▲	▲	▲	▲	▲	▲	Bi-directional ground-driven secondary steering pump
							CAB
●	●	●	●	●	●	●	ROPS/FOPS certification
●	●	●	●	●	●	●	Tilt cab
●	●	●	●	●	●	●	Gas strut-supported door
●	●	●	●	●	●	●	HVAC Climate control system
●	●	●	●	●	●	●	AM/FM radio/CD player + USB
●	●	●	●	●	●	●	Rear window guard
●	●	●	●	●	●	●	Wiper/washer with intermittent control
●	●	●	●	●	●	●	Tilt and telescoping steering wheel
●	●	●	●	●	●	●	Centre-mount air-suspension seat
●	●	●	●	●	●	●	Halogen work lights
▲	▲	▲	▲	▲	▲	▲	LED work lights
▲	▲	▲	▲	▲	▲	▲	Rotating beacon: seat belt installation
▲	▲	▲	▲	▲	▲	▲	Remote engine and machine isolation
●	●	●	●	●	●	●	Remote battery jump start
●	●	▲	▲	●	●	●	High visibility mirrors
●	●	●	●	●	●	●	Retractable 3-point seat belt
●	●	●	●	●	●	●	Foldaway trainer seat with retractable seat belt
							CAB (continued)
●	●	●	●	●	●	●	12-volt power outlet
●	●	●	●	●	●	●	Cup holder
●	●	●	●	●	●	●	Cooled/heated lunch box
●	●	●	●	●	●	●	Utility bin (removable)
●	●	●	●	●	●	●	Manually adjustable mirrors
▲	▲	▲	▲	▲	▲	▲	Electric adjustable & heated mirrors
●	●	●	●	●	●	●	Deluxe 10" colour LCD:
							Speedometer / Fuel gauge /
							Transmission oil temperature gauge /
							Engine coolant temperature gauge /
							LED function/warning indicators and
							audible alarm / Transmission gear
							selection / Tachometer / Battery
							voltage / Hour meter / Odometer /
							Fuel consumption / Trip timer /
							Trip distance / Metric/English units /
							Service codes/diagnostics
●	●	●	●	●	●	●	Backlit sealed switch module
							functions with:
							Wiper control / Lights / Heated mirrors /
							Retarding aggressiveness / Transfer
							case differential lock / Transmission
							gear hold / Airconditioner/ Heater
							controls / Preselected Speed Control
●	●	●	●	●	●	●	Backlit Plumbing sealed switch module
							functions with:
							Battery / Spray / Pulse / Tank fill /
							Hose reel / Pump / Dribble bar
							PLUMBING
●	●	●	●	●	●	●	Dribble bar
●	●	●	●	●	●	●	1 800 lpm 50 m head pump
▲	▲	▲	▲	●	●	●	5 400 lpm 70 m head pump*
▲	▲	▲	▲	▲	▲	▲	Pressurised dribble bar system
							with nozzles
●	●	●	●	●	●	●	Spray valves (in-cab activation)
●	●	●	●	●	●	●	Batter spray valves
●	●	●	●	●	●	●	Fold down top rails
▲	▲	▲	▲	▲	▲	▲	Suction pipe for filling from dam
●	●	●	●	●	●	●	Step ladder access
●	●	●	●	●	●	●	Inspection access
▲	▲	▲	▲	▲	▲	▲	Manual water canon
▲	▲	▲	▲	▲	▲	▲	Remote control water canon
▲	▲	▲	▲	▲	▲	▲	Hose reel
							OTHER
●	●	●	●	●	●	●	20.5 R 25 Radial earthmover tyres
▲							23.5 R 25 tyres
	●	●	●	●	●	●	620/75 R26 tyres
				●	●	▲	29.5 R 25 Radial Earthmover tyres
					▲	▲	875/65 R 29 Radial Earthmover tyres
●	●	●	●	●	●	●	Remote grease banks
▲	▲	▲	▲	▲	▲	▲	Automatic greasing
▲	▲	▲	▲	▲	▲	▲	Cab peak
▲	▲	▲	▲	▲	▲	▲	High pressure hydraulic filter
▲	▲	▲	▲	▲	▲	▲	Fuel heater
●	●	●	●	●	●	●	Belly cover
▲	▲	▲	▲	▲	▲	▲	Handrails
▲	▲	▲	▲	▲	▲	▲	Remote transmission filter
●	▲	▲	▲	▲	▲	▲	Reverse camera

* (Option only): Larger centrifugal pump available if suction pipe option is not fitted.

FEATURES OF THE ARTICULATED WATER TRUCK

- **PRODUCTIVE:** Powerful built-for hauling ADT drivetrains are well matched for pulling and retarding heavy loads. Nitrogen over oil strut suspension smooths the ride for operator and machine.
- **ECONOMY:** Modern fuel efficient engine, lockup torque converter and planetary transmission deliver more work per unit of fuel used
- **EASY TO OPERATE:** High quality cab is conducive to operator care. Simple to use controls and electronic interfaces protect the machine from accidental misuse.