

# ARTICULATED DUMP TRUCK



## Specifications

Maximum Payload	38 tonne
Heaped Capacity	23.3 m <sup>3</sup>
Gross Power	331 kW (444 hp)
PLI Tier 4i	A1115
PLI Tier 2	A1112

## Features

- ▶ High powered, heavy-duty truck providing class leading performance and ability to go where others can't follow
- ▶ World class operator's environment
- ▶ One of the most fuel efficient trucks in the field
- ▶ Rigorously tested in extreme conditions for proven power, productivity and reliability
- ▶ Superior gradeability and higher top speeds increase production

# SPECIFICATIONS

## ENGINE

Engine	Scania DC13		
Type	6 cylinder, in-line, four cycle, water cooled, turbocharged with air to air charge cooling, direct injection, electronic engine management and engine exhaust brake		
Piston Displacement	12.7 litres		
Bore x Stroke	130 x 160 mm		
Gross Power	331 kW (444 hp) @ 2,100 rpm		
Net Power	321 kW (430 hp) @ 2,100 rpm		
Maximum Torque	2,100 Nm @ 1,350 rpm		
Gross Power rated	SAE J1995 Jun 90		
Engine Emissions	US Tier 4i/EU Stage 3B. Variant available to meet US Tier 2/EU Stage 2.		
Electrical	24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries		
Air Cleaner	Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator		
Fan	Modulating fan reduces noise level and consumes engine power as required. Note: Net hp with fan clutch disengaged		
Altitude	Electronic derate 3,000 m		

## TRANSMISSION

Allison HD4560 with integral retarder mounted directly to the engine, fully automatic transmission with planetary gearing, electronic control with six forward and one reverse gear. Remote mounted 2 speed transfer gearbox taking drive from the transmission and feeding it via a lockable differential to front and rear wheels.

Speeds (Fully Laden) km/h	Gear	Ratio 1		Ratio 2	
		Forward	Reverse	Forward	Reverse
	1	5.8	5.0	8.9	7.8
	2	12.2	-	18.5	-
	3	17.6	-	26.7	-
	4	26.5	-	40.0	-
	5	34.7	-	50.5	-
	6	38.8	-	55.6	-

## AXLES

Three axles in permanent all-wheel drive (6x6) with differential coupling between each axle to prevent driveline wind-up. Heavy duty axles with full 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 dropbox output differential are locked simultaneously using one switch selected by the operator.

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

## SUSPENSION

Front	Four trailing links and a panhard rod locate the front axle giving a high roll centre. The optimized front axle position along with the wide spaced main and rebound mounts, mounted directly above the axle and long suspension travel, combine with the two heavy duty dampers each side to give excellent handling and ride.
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. Pivot points on leading and trailing links are rubber-bushed and maintenance-free.

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## STEERING

Hydrostatic power steering by two double-acting cushioned steering cylinders with pressure supplied by a variable displacement / load sensing piston pump. Secondary steering pressure is provided by a ground driven pump mounted on the dropbox. An audible alarm and warning light indicates should the second system activate.	
Steering angle to either side	45°
Lock to lock turns, steering wheel	4
System pressure	240 bar
SAE Turning Radius	9,185 mm
Clearing Radius	9,675 mm

## 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 which houses nylon bushings. Frames articulated 45° to either side for steering by means of two widely-spaced pivot pins in back-to-back sealed taper roller bearings.

## BODY

All-welded construction, fabricated from high hardness (min 360 BHN) 1 000 Mpa yield strength steel. Dual slope tailchute improves material ejection from body.	
Plate thickness:	Floor and tailchute 15.0 mm Sides 12.0 mm Front 8.0 mm
Volume:	Struck 17.4 m³ Heaped 2:1 (SAE) 23.3 m³

## HOIST

Two single-stage, double-acting hoist cylinders, cushioned at the base end. Variable displacement / load sensing piston pump driven from power take-off on transmission. Full flow return line filtration. Full electro-hydraulic hoist control, with electronic detent in power down.	
System pressure	240 bar Raise (loaded) 12.5 seconds
Pump output flow rate	5.4 liter/sec Lower 8 seconds

## BRAKES

All hydraulic braking system with sealed, forced oil cooled, multi discs on all axles. Independent circuits for front and rear brake systems.	
Parking	Spring-applied, hydraulic-released disc on rear driveline
Secondary	Secondary brake control actuates service and parking brakes

## CAPACITIES

Fuel Tank	494 liters
Hydraulic System (Steering & Body)	341 liters
Engine Crankcase	54 liters
Cooling System	70 liters
Transmission (inc filters and cooler)	48 liters
Differential - Front & Rear (each)	38 liters
Differential - Centre	39 liters
Planetaries - (each)	8.5 liters
Brake Cooling System	188 liters
DEF System (only applicable on Tier 4i model)	52 liters
Drop Box	17 liters

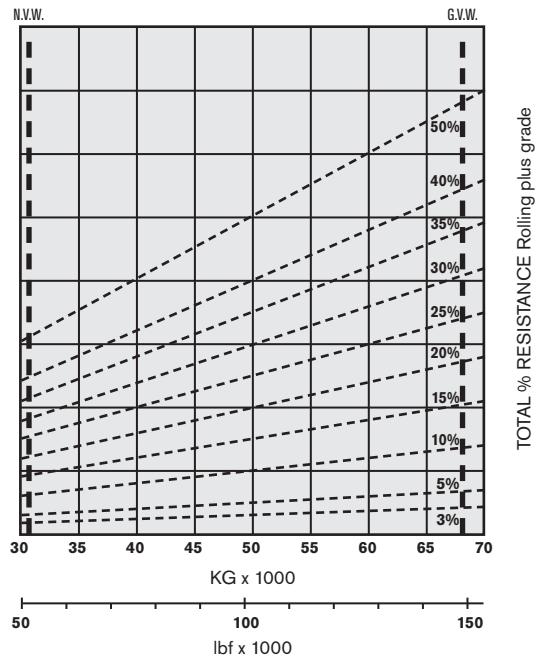
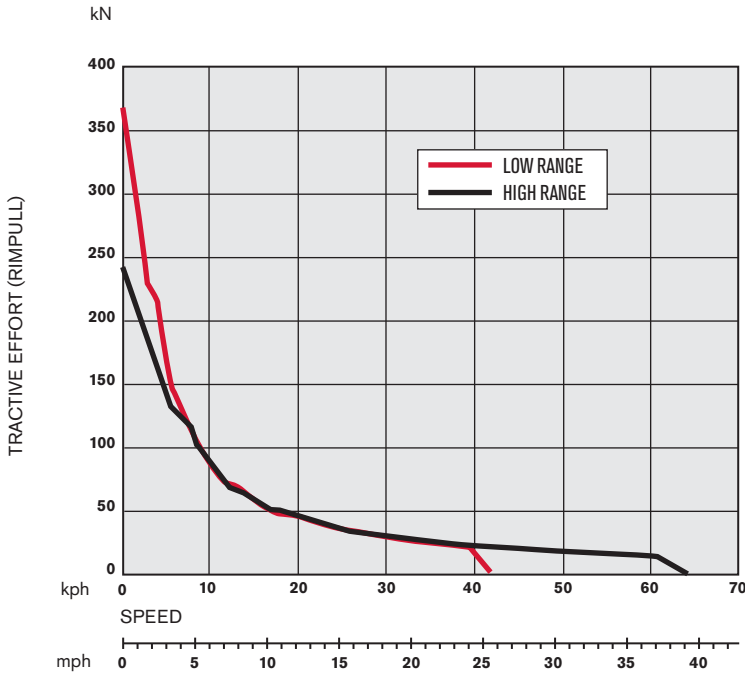
## TYRES AND WHEELS

Tyres	Standard 29.5
Rims	Standard 25x25.00
Wheels	3-piece earthmover rims with 19 stud fixing

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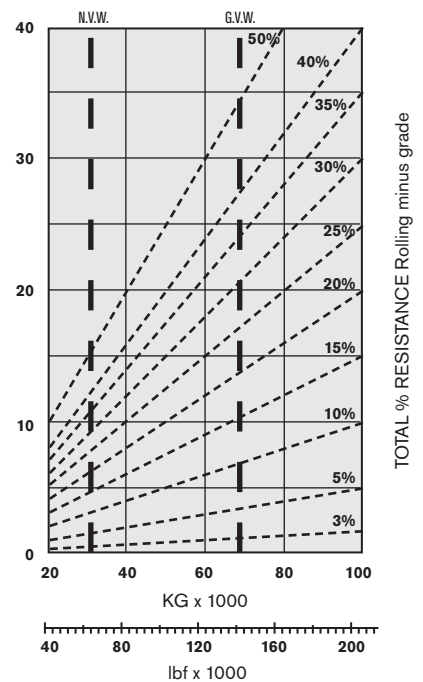
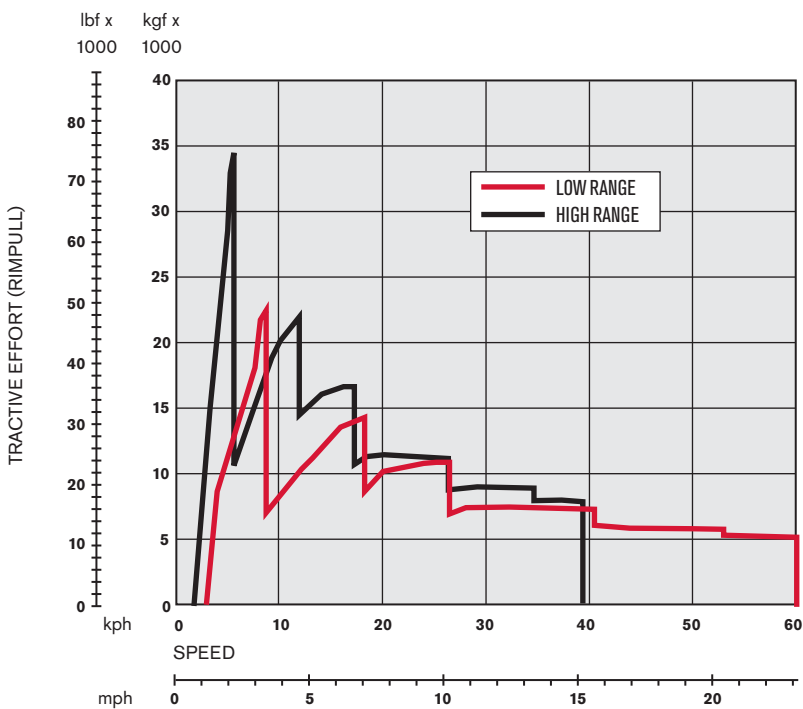
## GRADEABILITY

Unit equipped with 29.5 R25 tires. Graphs based on 2% Rolling Resistance.



## RETARDATION

Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainable, and then downwards for vehicle speed.



# STANDARD SPECIFICATION

## CAB AND OPERATOR

Air Conditioning	Mug Holder
Air Filter Restriction Indicator	Rear Vision Camera/ Monitor
Auxiliary Power Outlets 12V & 24V	ROPS/FOPS Protection ISO3471/3449
CD/Tuner/ MP3 Connectivity	Seat Belts Retractable J386
Coat Hook	Seat, Operator, Air Suspension, High Back, Headrest and Adjustable Armrests
Engine/Transmission/Hydraulic Diagnostic Facility	Seat, Trainer
Heating, Ventilation & Air Conditioning System (HVAC)	Steering Wheel, tilt/telescopic
Insulation, Thermal and Acoustic	Storage Compartment
Interior Light	Sun Visor (Internal)
Mirror Rear View (4)	Tinted Glass
Window Protection Grille, Rear	Wiper and Washer, Front and Rear Windows

## WARNING LIGHTS & AUDIBLE ALARM

Alternator Charging	Front Brake Accumulator Pressure
Body Up	Headlight High Beam
Differential Lock	Headlights Active
Direction Indicator	Hydraulic Oil Level Low
Engine Air Filter Change	Low Fuel
Engine 'CHECK'	Parking Brake
Engine Coolant Level Low	Rear Brake Accumulator Pressure
Engine Oil Pressure Low	Secondary Steering
Engine Over-speed Active	Transmission Check
Engine 'STOP'	Transmission High Oil Temperature
Exhaust Brake	Transmission Retarder

## GENERAL

Articulation and Oscillation Lock	Mudflaps at Front and Centre
Battery Master Switch	Neutral Start Interlock
Body Prop	Pivot Protection Guard
Brakes Fully Hydraulic Dual Circuit System	Rear Light Guards
Diagnostic Pressure Test Points	Reverse Alarm Audible J994
Differential Locks	Secondary Steering
Electronic Assisted Body Hoist Control	Security Kit
Engine/Transmission/Hydraulic Electronic Management Systems	Tilting Cab for Maintenance
Engine Underguard	Tow Points, Front and Rear
Exhaust Muffler	Transmission Downshift Inhibitor
Independent Suspension	Transmission Oil Cooler
Handrails on Fenders	Transmission Retarder
Horn, Electric 117db	Transmission Sump Guard
Hydraulic Filter Restriction Indicator	Tyre Inflation Nitrogen
Hydraulic Oil Cooler	Exhaust Brake
Modulating Cooling Fans	

## GAUGES

Body Tip Counter	Hourmeter
DEF Level Gauge (T4 variant only)	Hydraulic oil Temperature
DEF Level Warning (T4 variant only)	Speedometer/Digital Odometer/Tripmeter
Engine Coolant Temperature	Tachometer
Fuel Consumption/ Usage	Transmission Oil Temperature
Fuel Level	

## LIGHTS

Direction and Hazard Warning Indicators (LED on Rear)	Side and Tail (LED)
Front Working Lights, Roof Mounted	2 Halogen Headlamps Dipped Beam
Reverse Warning	2 Halogen Headlamps Main Beam

# OPTIONAL EQUIPMENT

## BODY OPTIONS

Body Side Extensions	Spillguard Extension
Heated Body	Top Tailgate
Liner Plates	

## MIRRORS

Mirror Front Mounted	Mirrors Heated
Mirror with Wide Angle	

## LIGHTS

Beacon Flashing	Rear Working Lights, Roof Mounted
Fog Rear	Reverse Flashing

## OTHER OPTIONS

Automatic Lubrication	Payload Monitoring System
Fire Extinguisher	Seat Heated
First Aid Kit	Tool Kit
Parking Brake Guard	

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Ref.-No.: TEREX623-4EN

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