



TEREX Equipment Limited Maintenance Manual

MAINTENANCE MANUAL
TA35 - TA40 G7



15503431

SM046/017/865

[CLICK HERE FOR TABLE OF CONTENTS](#)

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TEREX Equipment Limited Maintenance Manual Re-Order

MAINTENANCE MANUAL

TA35 - TA40 G7

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TEREX Equipment Limited Maintenance Manual - Introduction

For further information on the subject matter detailed within this Maintenance Manual, please refer to Terex Equipment Limited Operator Handbooks and Product Parts Books.

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Please refer to TEREX Specification Sheets or consult Factory Representatives to ensure that information is current.

MAINTENANCE MANUAL

TA35 - TA40 G7

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IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all motor vehicles. The service procedures recommended and described in this publication, are effective methods for performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when, and as recommended.

It is important to note that this publication contains various WARNINGS and NOTES which should be carefully read in order to minimize the risk of personal injury to personnel, or the possibility that improper service methods will be followed which may damage the vehicle or render it unsafe. It is also important to understand these WARNINGS and NOTES are not exhaustive. It is not possible to know, evaluate and advise the service trade of ALL conceivable ways in which service might be carried out, or, of the possible hazardous consequences of each way. Consequently, no such broad evaluation has been undertaken. Accordingly, anyone who uses a service procedure, or tool, which is not recommended, must first satisfy themselves thoroughly that neither their safety, nor vehicle safety, will be jeopardized by the service method he/she selects.

Safety Alert Symbol

The safety alert symbol is used to alert you to a potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Hazard Classification

A multi-tier hazard classification system is used to communicate potential personal injury hazards. The following signal words used with the safety alert symbol indicate a specific level of severity of the potential hazard. Signal words used without the safety alert symbol relate to property damage and protection only. All are used as attention getting devices throughout this manual as well as on decals and labels fixed to the machinery to assist in potential hazard recognition and prevention.



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates an potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates an potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



WARNING

Never use parts which are altered, modified, or weakened in operation. This can seriously jeopardise the integrity of the machine and could result in property damage or serious personal injury.

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TABLE OF CONTENTS

Section No.	Description	SM No.
000	GENERAL INFORMATION	
0000	Technical Data - TA35 (917)	2498 Rev 1
0000	Technical Data - TA35 (946)	2561
0000	Technical Data - TA40	2436 Rev2
0010	Welding Procedure	2172
100	CHASSIS	
0010	Frames	2403
0020	Articulation and Oscillation Pivot	2438
0040	Hood and Mounting	2383 Rev1
110	ENGINE	
0030	Engine and Mounting	2384 Rev 1
0050	Air Cleaner	2404
120	TRANSMISSION	
0010	Transmission and Mounting	2416 Rev1
0090	Transmission PTO	2371
125	DROPBOX	
0010	Dropbox and Mounting	2367 Rev6
0020	Emergency Steering Pump	2369
0035	Dropbox Pump Assembly	2569 Rev1
0045	Dropbox Pressure Filter (new style)	2571
0045	Dropbox Pressure Filter (old style)	2570
0050	Dropbox Suction Filter	2568
130	DRIVELINES	
0010	Front Drivelines	2385
0020	Rear Drivelines	2386
140	FRONT AXLE GROUP	
0020	Axle Group (Hub) (Refer to Section 160-0030)	-
0040	Wheel Rim and Tyre (Refer to Section 160-0050)	-
0060	Differential Drive Head (Refer to Section 160-0020)	-
150	CENTRE AXLE	
0020	Differential Drive Head	2249
160	REAR AXLE GROUP	
0020	Differential Drive Head	2248
0030	Axle Group (Hub)	2408 Rev1
0050	Wheel Rim and Tyre	2389 Rev 2
165	BRAKE ASSEMBLY	
0015	Oil Cooled Disc Brakes	2390
170	PARKING BRAKE	
0010	Parking Brake and Mounting	2428
180	SUSPENSION SYSTEM	
0020	Front Suspension	2391 Rev1

TABLE OF CONTENTS

Section No.	Description	SM No.
0040	Rear Suspension	2392
190	ELECTRICAL SYSTEM	
0000	Circuit Diagrams (DDEC V, 4000 Series transmission)	2439 Rev 2
0085	Hydraulic System ECU	2443 Rev 2
0270	Switches and Sensors	2368 Rev 4
200	FUEL SYSTEM	
0040	Fuel System	2394
0051	Electronic Foot Pedal	2395
210	COOLING SYSTEM	
0000	Cooling System (Series 60 Engine)	2374
0005	Brake Cooling System Schematic	2397 Rev 2
0010	Cooling Fan and Motor	2458 Rev 2
0040	Radiator and Mounting	2445 Rev 1
0044	Fan Disconnect Valve	2457 Rev 2
0050	Disc Brake Oil Cooler (earlier version)	2446 Rev 1
0050	Disc Brake Oil Cooler (later version)	2562
0060	Transmission Oil Cooler (earlier version)	2433 Rev 2
0060	Transmission Oil Cooler (later version)	2563
0065	Dropbox Oil Cooler	2432
0100	Hydraulic Oil Cooler	2459
215	MAIN HYDRAULIC VALVE	
0050	Main Hydraulic Valve Assembly	2442 Rev 5
220	STEERING SYSTEM	
0000	Steering System Schematic	2423 Rev 4
0090	Steering Valve	2364
0120	Steering Cylinder	2399
230	BODY SYSTEM	
0000	Body System Schematic	2441 Rev 3
0040	Hydraulic Tank	(Refer to Section 250-0025) -
0050	Main Hydraulic Pump	2370 Rev 4
0081	Body Control Lever	2418
0130	Body Cylinder	2402
0135	Load Sense Control Valve	2564 Rev 1
250	BRAKING SYSTEM	
0000	Braking System Schematic	2430 Rev 3
0025	Brake Coolant/Hydraulic Tank	2447 Rev 3
0026	Brake Coolant/Hydraulic Tank (with Pressurization)	2565 Rev 2
0045	Motor/Triple Pump Assembly	2422 Rev 4
0050	Brake Manifold Valve	2456 Rev 1
0060	Accumulator	2431
0070	Treadle Valve	2427 Rev 2
0075	OCDB Relief Unloader Valve	2426 Rev 1

TABLE OF CONTENTS

Section No.	Description	SM No.
260	OPERATORS COMPARTMENT	
0010	Cab and Mounting	2388
0090	Driver Seat and Mounting	2400
0110	Instructor Seat and Mounting	2572
0130	Air Conditioning	2460 Rev1
270	BODY	
0010	Body and Mounting	2429 Rev 1
300	MISCELLANEOUS	
0020	Lubrication System	2435 Rev 9
0070	Service Tools	2567
0080	Standard Bolt and Nut Torque Specifications	1238 Rev 1
0090	Unit Storage	1239

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General Information - Technical Data TA35 (A917)

Section 000-0000

SM - 3528

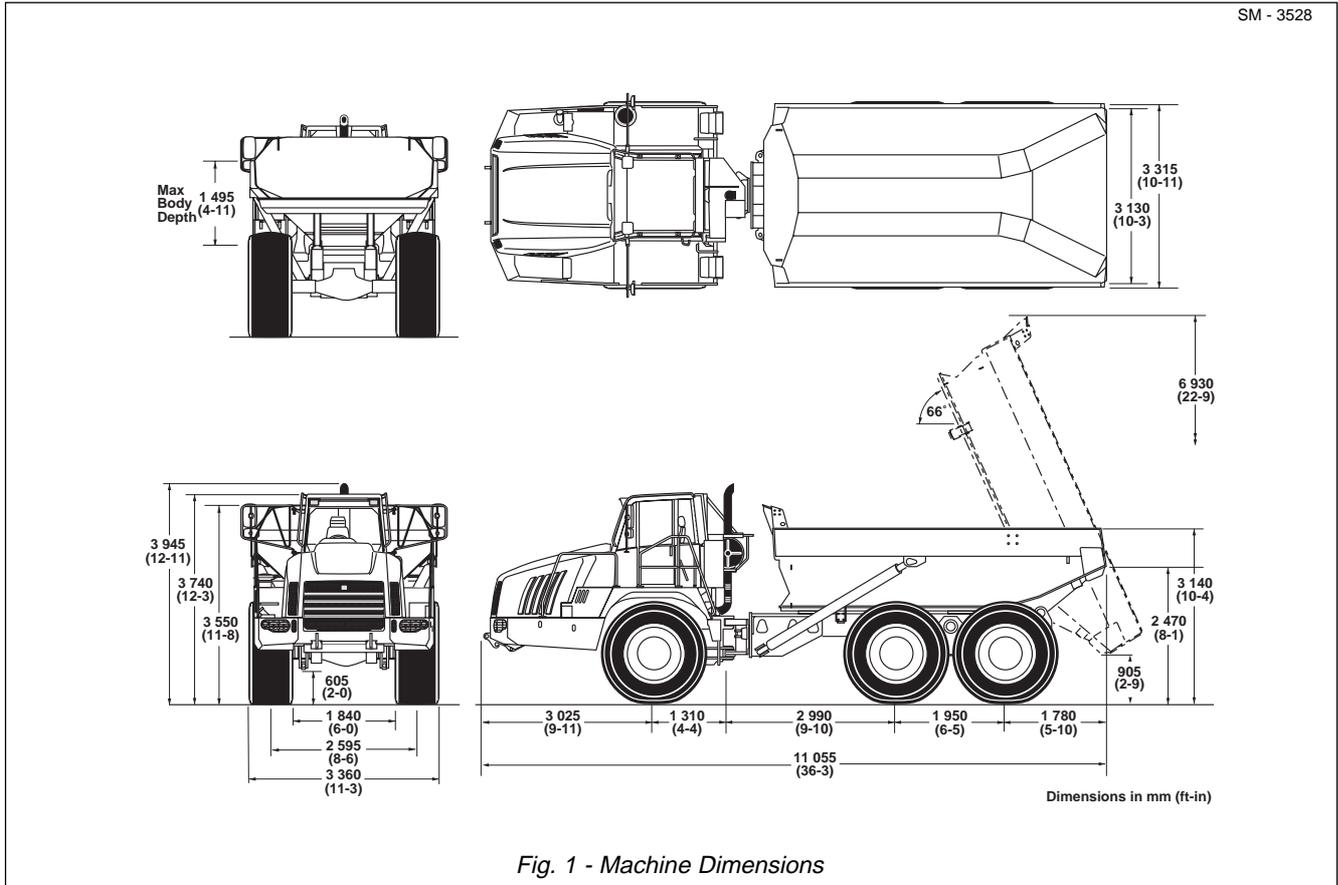


Fig. 1 - Machine Dimensions

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.

Gross power at 2 110 rev/min 298 kW (400 hp, 405 PS)
 Net power at 2 110 rev/min 289 kW (388 hp, 393 PS)

Note: Gross power rated to SAE J1995 Jun 90. Engine emission meets USA EPA Tier 3 /CARB MOH 40 CFR 89 Tier 3 and proposed EU NRMM (non-road mobile machinery) Tier 3 directive.

Maximum Torque 2 000 Nm (1475 lbf ft) at 1 200 rev/min
 Number of cylinders/configuration 6, in line
 Bore x Stroke 133 x 168 mm (5.24 x 6.61 in)
 Piston Displacement 14 litres (855 in³)
 Air cleaner Dry type, double element
 Starting Electric
 Maximum Speed (No load) 2 300 rev/min
 Maximum Speed (Full load) 2 200 rev/min
 Idle Speed 700 rev/min
 Safe Operating Angle 43°/94% Grade

TRANSMISSION

Make/Model Allison 4500 ORS with integral retarder mounted directly to the engine, fully automatic transmission with planetary gearing, lock-up in all gear ranges. Electronic control with six forward and one reverse gear.

Main 18.5 + 3.4 bar (269 + 50 lbf/in²)
 Temperatures:
 Normal 60° - 135° C (140° - 275° F)
 Maximum 165° C (329° F)

Ratios:
 Transmission Refer to table below

Low Range

		Forward					
Gear		1	2	3	4	5	6
km/h		5.2	11.0	15.9	24.3	31.0	35.2
mile/h		3.2	6.8	9.9	15.1	19.3	21.9
		Reverse					
Gear		1					
km/h		4.6					
mile/h		2.9					

High Range

		Forward					
Gear		1	2	3	4	5	6
km/h		7.9	16.8	24.3	37.1	47.7	53.9
mile/h		4.9	10.4	15.1	23.1	29.6	33.5
		Reverse					
Gear		1					
km/h		7.0					
mile/h		4.3					

General Information - Technical Data TA35 (A917)

Section 000-0000

DROPBOX

Remote mounted transfer gearbox taking drive from the transmission and feeding it via a lockable differential to the front and rear wheels.

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. Centre axle incorporates a through-drive differential to transmit drive to the rear axle. This differential and the dropbox output differential are locked simultaneously using one switch selected by the operator.

Ratios:

Differential	3.70:1
Planetary	6.35:1
Total Reduction	23.50:1

SUSPENSION

Front: Four trailing links and a Panhard rod locate the front axle giving a high roll centre. The optimised front axle position along with the wide spaced main and rebound mounts, mounted directly above the axle and long suspension travel, combine with 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 axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle and underside of balance beam ends. Pivot points on rear suspension linkages are rubber-bushed and maintenance-free.

WHEELS AND TYRES

Wheels: 5-piece earthmover rims with 12 stud fixing
Size:

Standard 25 x 22.00 in for 26.5 R25** tyres

Tyres:

Standard 26.5 R25**

Inflation Pressures (Bridgestone):

	Front	Centre/Rear
26.5 R25**	3.73 bar (54 lbf/in ²)	4.97 bar (72 lbf/in ²)

Inflation Pressures (Michelin):

	Front	Centre/Rear
26.5 R25**	3.24 bar (47 lbf/in ²)	4.28 bar (62 lbf/in ²)

Inflation Pressures (GoodYear):

	Front	Centre/Rear
26.5 R25**	4.75 bar (69 lbf/in ²)	4.75 bar (69 lbf/in ²)

Note: Tyre pressures should be regarded as nominal only. It is recommended that for tyres both listed and unlisted, the user should consult the tyre manufacturer and evaluate all job conditions in order to make the proper selection.

HYDRAULIC SYSTEM

Braking, steering and body hoist systems are controlled by a main hydraulic valve mounted on frame. Systems are supplied with oil from a common tank by the main hydraulic pump, driven from power takeoff on transmission. System components are protected by full flow filtration on the return line.

Pump:

Type	Piston
Capacity at 2 700 rev/min	5.4 litre/s (85.6 US gal/min)

Brakes

Full hydraulic braking system with enclosed, forced oil-cooled multiple discs 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 J1473.

Actuating Pressure	48 ± 2.4 bar (700 ± 35 lbf/in ²)
Pump Type	Triple stage gear
Capacity at 1 685 rev/min	8.9 litre/s (2.35 US gal/min)

Braking surface (tractor)	590240 mm ² (914.9 in ²)/brake
Braking surface (trailer)	590240 mm ² (914.9 in ²)/brake

Parking: Spring-applied, hydraulic-released disc on rear driveline.

Emergency: Automatic application of driveline brake should pressure fall in main brake hydraulic system. Service brakes may also be applied using the parking-emergency brake control.

Retardation: Hydraulic retarder integral with transmission.

Steering

Hydrostatic power steering by two single-stage, double-acting, cushioned steering cylinders. Emergency steering pressure is provided by a ground driven pump mounted on the rear of the transmission. An audible alarm and warning light indicates should the emergency system activate. Conforms to ISO 5010, SAE J53.

System Pressure	240 bar (3 500 lbf/in ²)
Steering Angle to either side	45°
Lock to Lock Turns, steering wheel	4

Body Hoist

Two single-stage, double-acting hoist rams, cushioned at both ends of stroke. Electro servo assisted hoist control.

System Pressure	240 bar (3 500 lbf/in ²)
Control Valve	Pilot Operated, Closed Centre
Body Raise Time (loaded)	12.5 sec
Body Lower Time (power down)	8 sec

ELECTRICAL SYSTEM

Type	24 volt, Negative Ground
Battery	Two, 12 Volt, 175 Ah each
Accessories	24 Volt
Alternator	100 Amp

General Information - Technical Data TA35 (A917)

Section 000-0000

BODY

Of all welded construction, fabricated from high hardness (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 (0.58 in)
 Sides 12 mm (0.47 in)
 Front 8 mm (0.39 in)

Volume:

Struck (SAE) 15.5 m³ (20.3 yd³)
 Heaped 2:1 (SAE) 21.0 m³ (27.5 yd³)

SERVICE CAPACITIES

Fuel tank 481 litres (127 US gal)
 Hydraulic System 330 litres (87.2 US gal)
 Cooling System 80 litres (21.1 US gal)
 Engine Crankcase (with filters) 37 litres (9.8 US gal)
 Transmission (with filters) 61 litres (14.8 US gal)
 Differentials - Front & Rear 33 litres (8.9 US gal)
 Differential - Centre 34 litres (8.7 US gal)
 Planetaries (each) 9 litres (2.4 US gal)
 Driveshaft Bearings 1.5 litres (0.4 US gal)
 Air Conditioning Compressor 0.125 litres (0.033 US gal)

TYPICAL NOISE LEVELS

Operator Ear (ISO 6394) 76 dbA

*Exterior Sound Rating (ISO 6395) 109 dbA

* - The above result is for the mode giving the highest exterior sound level when measured and operated as per the prescribed procedures of the standard. Results shown are for the vehicle in base configuration.

Note: Noise Level Exposure to the operator and bystander personnel may be higher depending upon proximity to buildings, rock piles, machinery, etc. The actual job site Noise Level Exposure must be measured and applicable regulations complied with in respect to Employee Hearing Protection.

* * * *

Vehicle Weights		29.5 R25 Tyres	
Standard Vehicle	kg	lb	
Net Distribution			
Front Axle	15 086	32 258	
Centre Axle	7 125	15 707	
Rear Axle	7 068	15 582	
Vehicle, Net	29 279	64 547	
Payload	34 000	74 956	
Gross Distribution			
Front Axle	17 279	38 094	
Centre Axle	23 000	50 705	
Rear Axle	23 000	50 705	
Vehicle, Gross	63 279	139 506	
Bare Chassis	23 669	52 177	
Body	4 950	10 915	
Body Hoists (Pair)	660	1 455	

General Information - Technical Data TA35 (A917)

Section 000-0000

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General Information - Technical Data TA35 (A946)

Section 000-0000

SM - 3528

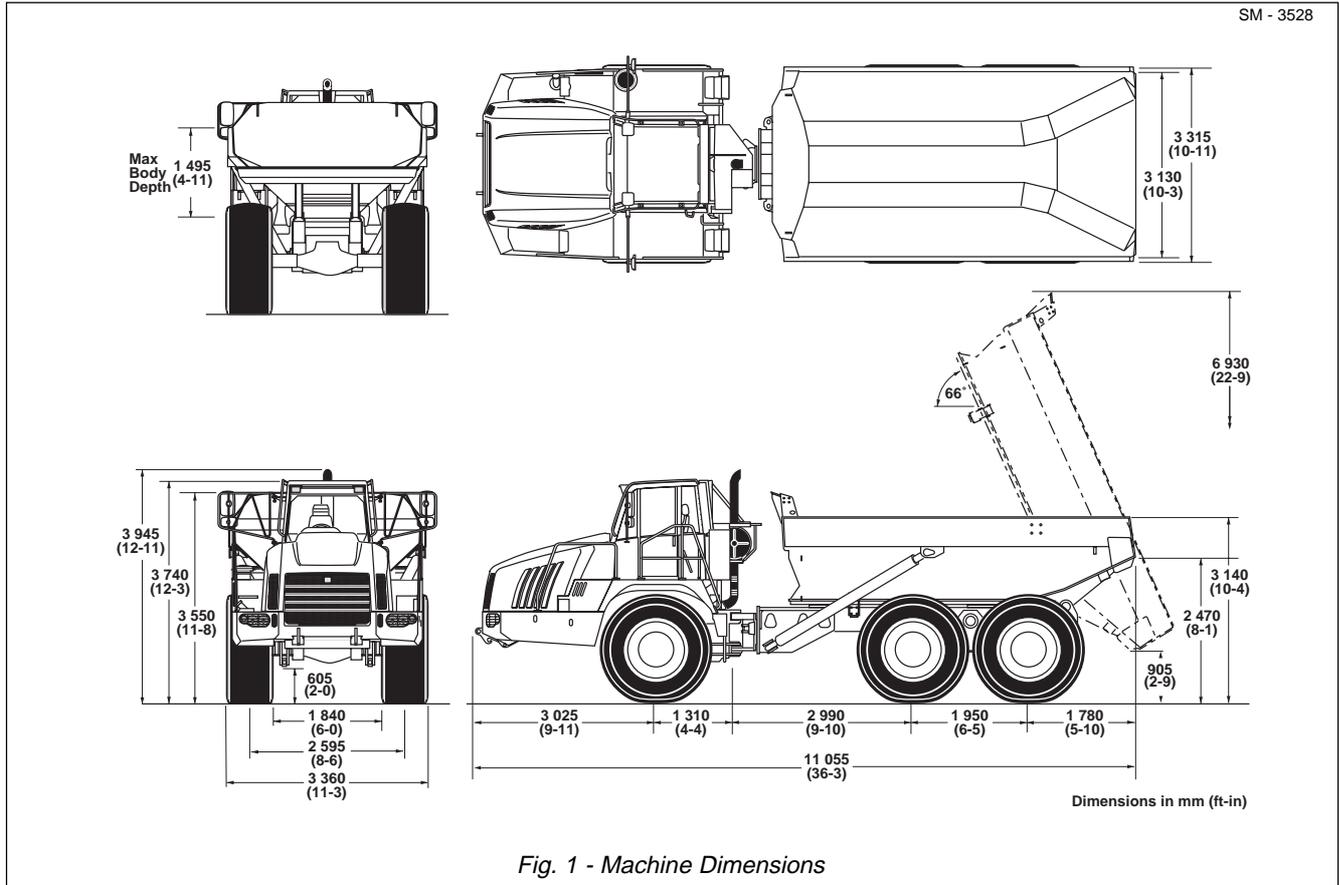


Fig. 1 - Machine Dimensions

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.

Gross power at 2 110 rev/min 338 kW (454 hp, 460 PS)
 Net power at 2 110 rev/min 326 kW (437hp, 433 PS)

Note: Gross power rated to SAE J1995 Jun 90. Engine emission meets USA EPA Tier 3 /CARB MOH 40 CFR 89 Tier 3 and proposed EU NRMM (non-road mobile machinery) Tier 3 directive.

Maximum Torque 2 100 Nm (1548 lbf ft) at 1 350 rev/min
 Number of cylinders/configuration 6, in line
 Bore x Stroke 133 x 168 mm (5.24 x 6.61 in)
 Piston Displacement 14 litres (855 in³)
 Air cleaner Dry type, double element
 Starting Electric
 Maximum Speed (No load) 2 300 rev/min
 Maximum Speed (Full load) 2 200 rev/min
 Idle Speed 700 rev/min
 Safe Operating Angle 43°/94% Grade

TRANSMISSION

Make/Model Allison 4500 ORS with integral retarder mounted directly to the engine, fully automatic transmission with planetary gearing, lock-up in all gear ranges. Electronic control with six forward and one reverse gear.

Main Pressure 18.5 + 3.4 bar (269 + 50 lbf/in²)
 Temperatures:
 Normal 60° - 135° C (140° - 275° F)
 Maximum 165° C (329° F)

Ratios:
 Transmission Refer to table below

Low Range

Forward						
Gear	1	2	3	4	5	6
km/h	5.5	11.7	16.9	25.8	33.0	37.5
mile/h	3.4	7.3	10.5	16.0	20.5	23.3
Reverse						
Gear	1					
km/h	4.8					
mile/h	3.0					

High Range

Forward						
Gear	1	2	3	4	5	6
km/h	8.4	17.8	25.8	39.5	50.4	60.0
mile/h	5.2	11.0	16.0	24.5	31.3	37.3
Reverse						
Gear	1					
km/h	7.4					
mile/h	4.6					

General Information - Technical Data TA35 (A946)

Section 000-0000

DROPBOX

Remote mounted transfer gearbox taking drive from the transmission and feeding it via a lockable differential to the front and rear wheels.

Ratios:

Low.....1.129:1
High.....0.738:1

Pressure:

High/Low Actuation.....15±0.2 bar
Differential Lock Actuation.....42±8 bar
Lubrication.....2±1 bar

Temperature:

Maximum.....100°C (212°F)

AXLES

Three axles in permanent all-wheel drive (6 X 6) with a 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. Centre axle incorporates a through-drive differential to transmit drive to the rear axle. This differential and the dropbox output differential are locked simultaneously using one switch selected by the operator.

Ratios:

Differential 3.70:1
Planetary 6.35:1
Total 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 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 equalize the load on each axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle and underside of balance beam ends. Pivot points on rear suspension linkages are rubber-bushed and maintenance-free.

WHEELS AND TYRES

Wheels: 3-piece earthmover rims with 19 stud fixing
Size:

Standard 25 x 22.00 in for 26.5 R25** tyres

Tyres:

Standard 26.5 R25**

Inflation Pressures (Bridgestone):

	Front	Centre/Rear
26.5 R25**	4.5 bar (65 lbf/in ²)	5.7 bar (82 lbf/in ²)

Inflation Pressures (Michelin):

	Front	Centre/Rear
26.5 R25**	3.2 bar (47 lbf/in ²)	4.5 bar (65 lbf/in ²)

Inflation Pressures (Double Coin):

	Front	Centre/Rear
26.5 R25**	4.5 bar (65 lbf/in ²)	5.5 bar (80 lbf/in ²)

Inflation Pressures (Triangle):

	Front	Centre/Rear
26.5 R25**	4 bar (58 lbf/in ²)	5.9 bar (86 lbf/in ²)

Note: Tyre pressures should be regarded as nominal only. It is recommended that for tyres both listed and unlisted, the user should consult the tyre manufacturer and evaluate all job conditions in order to make the proper selection.

HYDRAULIC SYSTEM

Braking, steering and body hoist systems are controlled by a main hydraulic valve mounted on the frame. Systems are supplied with oil from a common tank by the main hydraulic pump, driven from a power take-off on the transmission. System components are protected by full flow filtration on the return line.

Pump:

Type Piston
Capacity at 2 700 rev/min 5.4 litre/s (85.6 US gal/min)

Brakes

Full hydraulic braking system with enclosed, forced oil-cooled multiple discs 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 J1473.

Actuating Pressure 48 ± 2.4 bar (700 ± 35 lbf/in²)

Pump Type Triple stage gear
Capacity at 1 685 rev/min 8.9 litre/s (2.35 US gal/min)

Braking surface (tractor) 590240 mm² (914.9 in²)/brake
Braking surface (trailer) 590240 mm² (914.9 in²)/brake

Parking: Spring-applied, hydraulically-released disc on rear driveline.

Emergency: Automatic application of driveline brake should pressure fall in main brake hydraulic system. Service brakes may also be applied using the parking-emergency brake control.

Retardation: Hydraulic retarder integral with transmission.

Steering

Hydrostatic power steering by two single-stage, double-acting, cushioned steering cylinders. Emergency steering pressure is provided by a ground driven pump mounted on the rear of the transmission. An audible alarm and warning light indicates should the emergency system activate. Conforms to ISO 5010, SAE J53.

System Pressure 240 bar (3 500 lbf/in²)

General Information - Technical Data TA35 (A946)

Section 000-0000

Steering Angle to either side 45°
 Lock to Lock Turns, steering wheel 4

Body Hoist

Two single-stage, double-acting hoist rams, cushioned at both ends of stroke. Electro servo assisted hoist control.

System Pressure 240 bar (3 500 lbf/in²)
 Control Valve Pilot Operated, Closed Centre
 Body Raise Time (loaded) 12.5 sec
 Body Lower Time (power down) 8 sec

ELECTRICAL SYSTEM

Type 24 volt, Negative Ground
 Battery Two, 12 Volt, 175 Ah each
 Accessories 24 Volt
 Alternator 100 Amp

BODY

Of all welded construction, fabricated from high hardness (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 (0.58 in)
 Sides 12 mm (0.47 in)
 Front 8 mm (0.39 in)

Volume:

Struck (SAE) 15.5 m³ (20.3 yd³)
 Heaped 2:1 (SAE) 21.0 m³ (27.5 yd³)

SERVICE CAPACITIES

Fuel tank 481 litres (127 US gal)
 Hydraulic System 330 litres (87.2 US gal)
 Cooling System 80 litres (21.1 US gal)
 Engine Crankcase (with filters) 37 litres (9.8 US gal)
 Transmission (with filters) 61 litres (14.8 US gal)
 Differentials - Front & Rear 33 litres (8.9 US gal)
 Differentials - Centre 34 litres (8.7 US gal)
 Planetaries (each) 9 litres (2.4 US gal)
 Driveshaft Bearings 1.5 litres (0.4 US gal)
 Air Conditioning Compressor 0.125 litres (0.033 US gal)

TYPICAL NOISE LEVELS

Operator Ear (ISO 6394) 76 dbA

*Exterior Sound Rating (ISO 6395) 109 dbA

* - The above result is for the mode giving the highest exterior sound level when measured and operated as per the prescribed procedures of the standard. Results shown are for the vehicle in base configuration.

Note: Noise Level Exposure to the operator and bystander personnel may be higher depending upon proximity to buildings, rock piles, machinery etc.. The actual job site Noise Level Exposure must be measured and applicable regulations complied with in respect to Employee Hearing Protection.

* * * *

Vehicle Weights		29.5 R25 Tyres	
Standard Vehicle	kg	lb	
Net Distribution			
Front Axle	15 086	32 258	
Centre Axle	7 125	15 707	
Rear Axle	7 068	15 582	
Vehicle, Net	29 279	64 547	
Payload	34 000	74 956	
Gross Distribution			
Front Axle	17 279	38 094	
Centre Axle	23 000	50 705	
Rear Axle	23 000	50 705	
Vehicle, Gross	63 279	139 506	
Bare Chassis	23 669	52 177	
Body	4 950	10 915	
Body Hoists (Pair)	660	1 455	

General Information - Technical Data TA35 (A946)

Section 000-0000

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