

350C

TRUCKS

SPECIFICATIONS



Engine

350C

Type.....	DaimlerChrysler OM442A
Configuration	V8, integral engine valve brake, camshaft-driven PTO
Aspiration	turbocharged
Cooling system	liquid cooled, with a crankshaft-driven viscous fan
Rated power (conforms to SAE J1349).....	335 SAE net hp (250 kW) / 345 SAE gross hp (258 kW) @ 2,100 rpm
Maximum net torque.....	1,184 lb.-ft. (1600 Nm) @ 1,000–1,500 rpm
Displacement.....	892 cu. in. (14.6 L)

Transmission

Configuration	Allison HD4560 engine mounted automatic planetary, hydraulically actuated multiple-disc clutches, electronic control over hydraulic actuation, hydrodynamic torque converter with lock-up			
Stall torque ratio	1.91 to 1			
Vehicle speeds (full load, 2% rolling resistance)	<i>Forward (low range)</i>	<i>Reverse (low range)</i>	<i>Forward (high range)</i>	<i>Reverse (high range)</i>
Gear 1	3 mph (5 km/h)	4 mph (7 km/h)	6 mph (9 km/h)	11 mph (17 km/h)
Gear 2	7 mph (11 km/h)		11 mph (18 km/h)	
Gear 3	10 mph (16 km/h)		16 mph (26 km/h)	
Gear 4	15 mph (24 km/h)		25 mph (40 km/h)	
Gear 5	19 mph (30 km/h)		31 mph (50 km/h)	

Transfer Box

Configuration	remote two-speed, helical geared with lockable torque-proportioning interaxle differential
Output torque split.....	28 front / 72 rear

Axles

Differential type	spiral bevel gear with controlled traction
Final drive type	outboard heavy-duty planetary reduction hub

Braking System

Service brake.....	dual-circuit, air-over-hydraulic, dry-disc brakes on all six wheels
Park and secondary	spring-applied, air-released, automatic slack-adjusting mechanical caliper, driveline-mounted, dry disc
Auxiliary brake.....	automatic engine valve brake actuation (includes butterfly exhaust brake valve)
Maximum retardation.....	340 hp (250 kW)

Pneumatic System

Type.....	four-way pressure protected with air drier, heater and integral unloader valve
System pressure.....	135 psi (930 kPa)

Electrical System

Voltage.....	24 volt
Battery type	twin maintenance free
Battery capacity.....	2 x 100 A.h.
Alternator rating.....	28 volt, 55 amp

Steering System

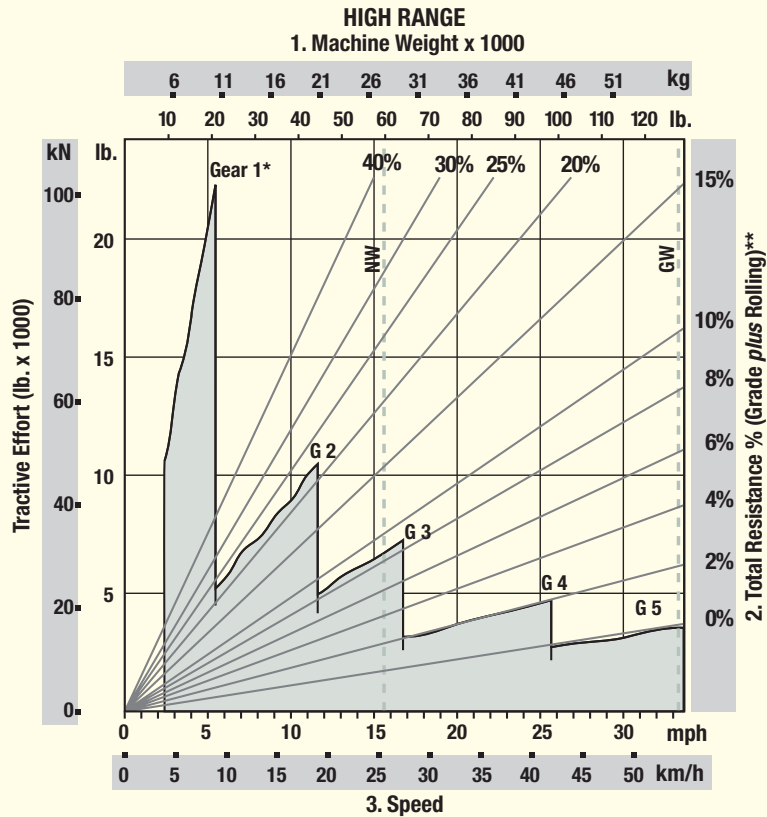
Type.....	hydromechanically articulated with two double-acting hydraulic cylinders
Angle	42 degrees side to side
Lock-to-lock turns	6

Hydraulic System

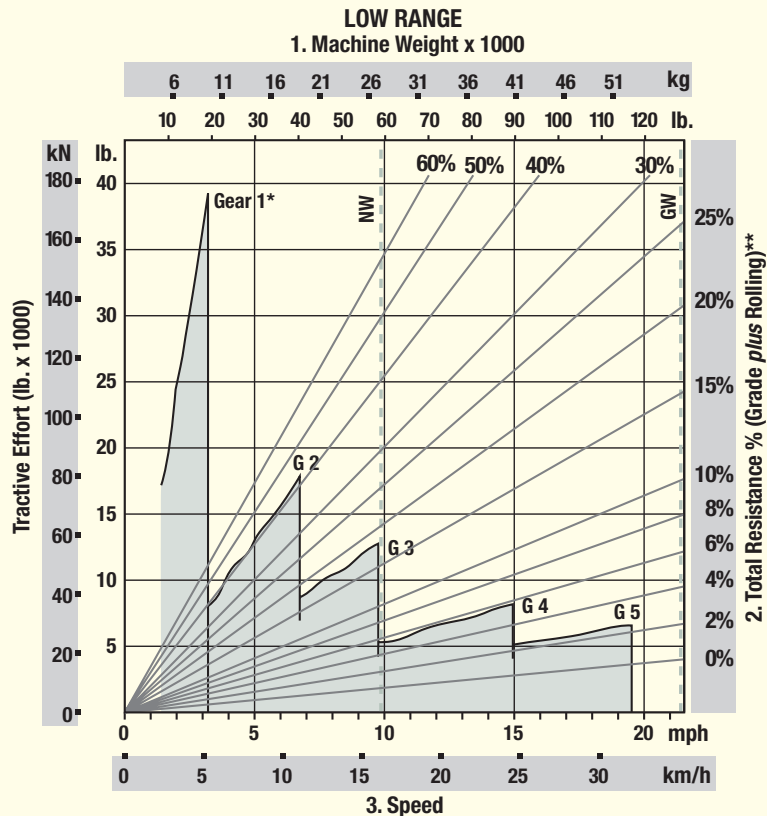
Type.....	closed-center, load-sensing system
Main pump	axial piston, variable displacement
Application.....	steering and body-tipping
Flow	58 gpm (220 L/min.) @ governed engine speed
Pressure	3625 psi (25 000 kPa)
Secondary pump.....	axial piston, variable displacement
Application.....	secondary steering, assist main steering
Flow	31 gpm (118 L/min.) @ full ground speed

Retardation

1. Read from total weight down to % total resistance (diagonal line). 2. From that point, read horizontally to curve with highest attainable speed range. 3. Read down to maximum descent speed.



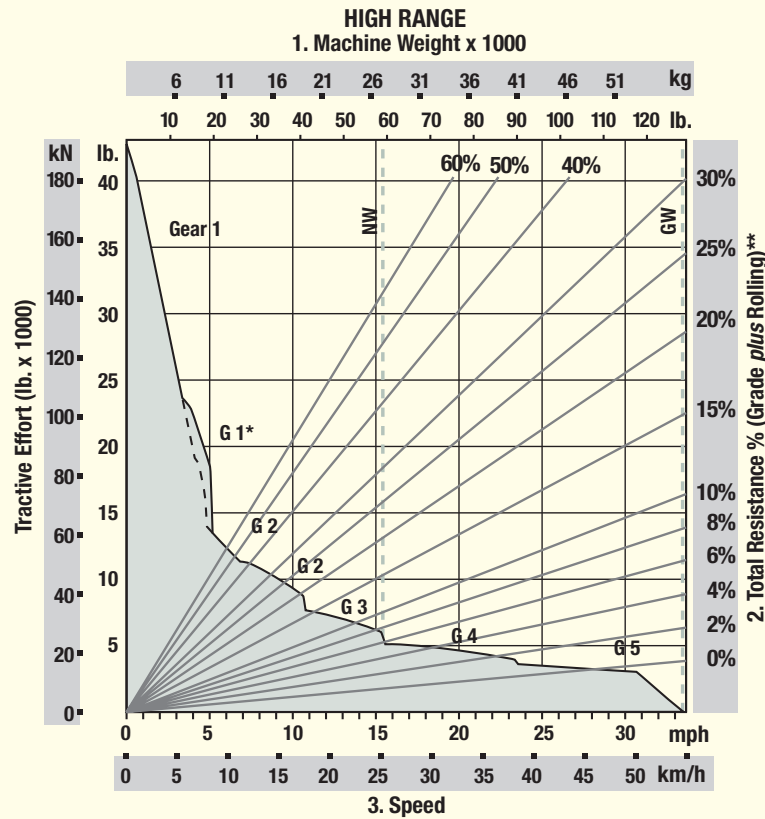
*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.
**2% rolling resistance assumed in chart.



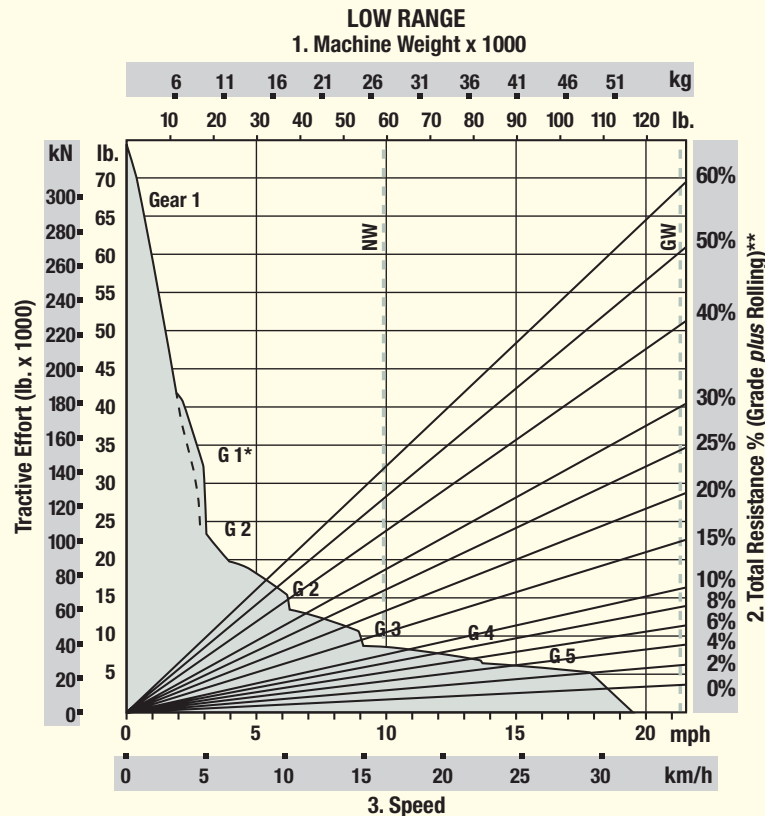
*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.
**2% rolling resistance assumed in chart.

Gradeability

1. Read from total weight down to % total resistance (diagonal line). 2. From that point, read horizontally to curve with highest attainable speed range. 3. Read down to maximum speed.



*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.
**2% rolling resistance assumed in chart.



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**2% rolling resistance assumed in chart.

Tires/Wheels

350C

Type.....	radial earthmover
Size	26.5R25
Maximum ground pressure (loaded).....	23 psi (156 kPa) middle

Suspension

Front type	semi-independent axle movement, leading A-frame supported on oil/nitrogen suspension struts
Rear type	load-equalizing pivoting walking beams on each axle with laminated suspension blocks

Body

Capacity	
Struck.....	19.6 cu. yd. (15.0 m ³)
Heaped	25.6 cu. yd. (19.6 m ³) @ 2 to 1 SAE ratio
Rated payload	70,547 lb. (32 000 kg)
Power-down time.....	10 sec.
Raise time.....	19 sec.
Tipping angle	70 degrees

Service Capacities

Fuel tank.....	106 gal. (400 L)	Hydraulic reservoir	36.9 gal. (140 L)
Engine oil	8.9 gal. (34 L)	Axle oil (front)	11.8 gal. (45 L)
Engine coolant	16.9 gal. (64 L)	Axle oil (middle).....	11.8 gal. (45 L)
Transmission fluid (refill).....	7.3 gal. (28 L)	Axle oil (rear)	11.8 gal. (45 L)
Transfer case oil	2.2 gal. (8.5 L)		

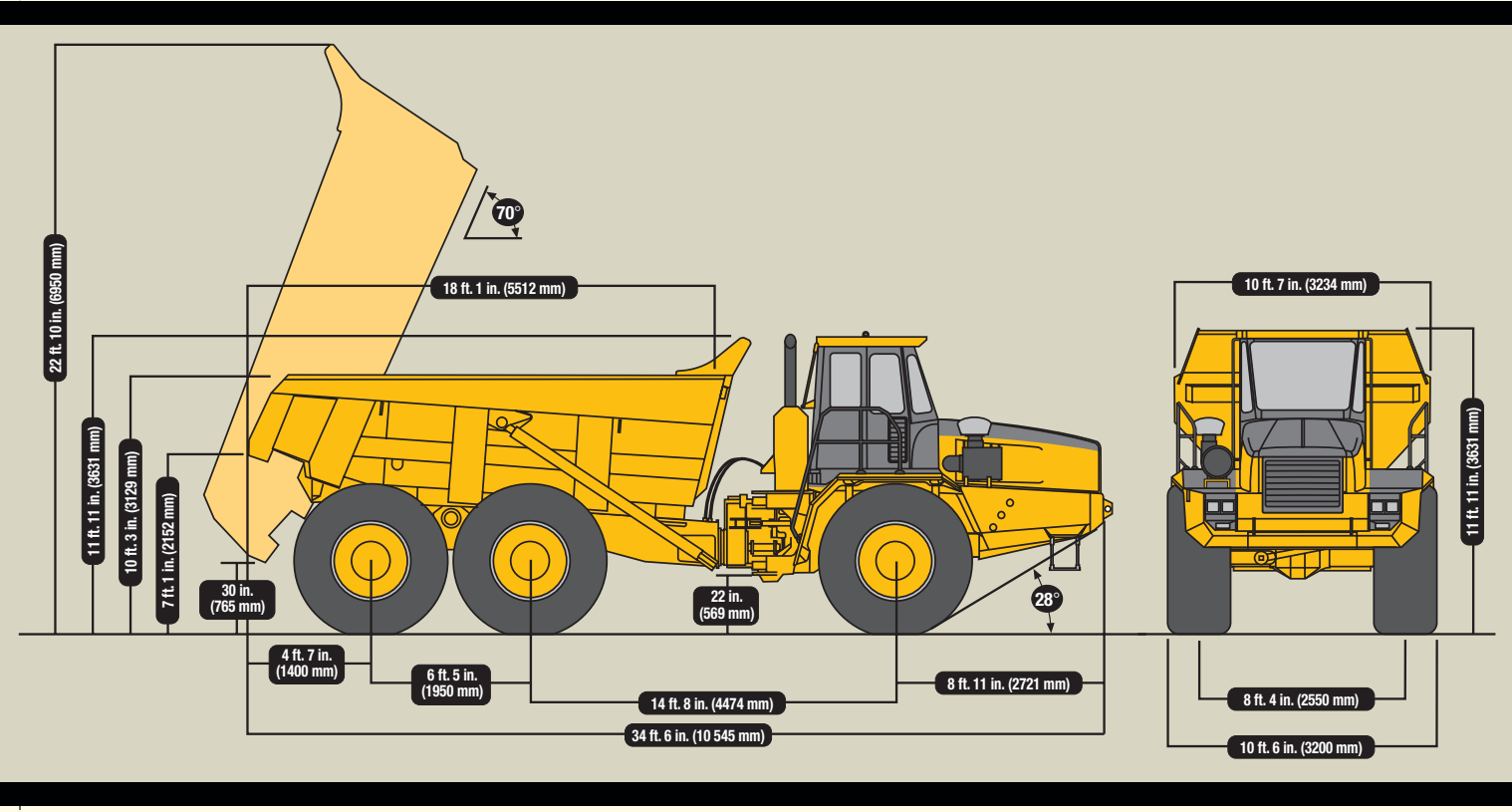
Operating Weights

Empty		Loaded	
Front.....	29,829 lb. (13 530 kg)	Front	42,276 lb. (19 176 kg)
Middle	15,058 lb. (6830 kg)	Middle	44,108 lb. (20 007 kg)
Rear.....	14,396 lb. (6530 kg)	Rear	43,446 lb. (19 707 kg)
Total	59,282 lb. (26 890 kg)	Total	129,830 lb. (58 890 kg)

SAE Turning Radius Dimensions

Inside turning circle radius.....	16 ft. 1 in. (4919 mm)	Outside turning circle radius.....	29 ft. 9 in. (9093 mm)
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TRIM HERE FOR GATEFOLD



Additional Equipment

Key: ● Standard equipment ▲ Optional or special equipment

See your John Deere dealer for further information.

Engine

- DaimlerChrysler OM442T – V8, 335 SAE net hp (250 kW)
- Crankshaft-driven fan
- Electric start aid
- Integral engine valve brake
- Turbocharged

Power Train

- Automatic exhaust brake
- Automatic planetary transmission – hydrodynamic torque converter with lock-up
- Automatic transmission retarder
- Computer controlled for adaptive shifts
- Control traction differentials on all drive axles
- Dual-circuit, air-over-hydraulic, dry-disc brakes on all six wheels
- High- and low-range gear selection
- Interaxle differential splits torque – 28% to front, 72% to rear
- Lockable proportion differential transfer box
- Push-button drive – neutral/reverse controls
- Rocker switch range holds to prevent gear hunting

Tipping Body

- 70-degree tip angle
- Body ducted for heating
- ▲ Mechanical/automatic tailgate
- ▲ Hydraulic/automatic tailgate
- Single-stage cylinders
- ▲ Body heater exhaust connection kit
- ▲ Body liner ($\frac{3}{8}$ in. [10 mm])

Hydraulic System

- Closed-center, load-sensing system

Electrical System

- 24-volt system
- 55-amp alternator
- Twin maintenance-free batteries

Operator Station

- ROPS cab – conforms to SAE J1040/ISO 3471/1
- FOPS cab – conforms to SAE J231/ISO 3449
- Air conditioner
- Air-suspension seat
- Compact sloped hood
- Full rearview mirror package
- Heater
- Hydromechanically articulated steering with two double-acting hydraulic cylinders
- Left and right cab-entry doors
- Machine systems condition gauges:
 - Engine coolant temperature
 - Engine oil pressure
 - Fuel level
 - Hourmeter
 - Hydraulic tank pressure
 - System air pressure
 - Transmission oil temperature
- Monitor system with visual and/or audible warnings:
 - Battery charge indicator
 - Body-raised indicator
 - Brake overstroke indicator
 - Cold-start indicator

Operator Station (continued)

- Do Not Shift indicator
- Engine coolant temperature indicator with audible alarm
- Engine oil pressure indicator with audible alarm
- Engine over-speed indicator with audible alarm
- High-beam indicator
- Interaxle lock indicator
- Low engine coolant level indicator with audible alarm
- Low-range indicator
- Park brake indicator
- Secondary steering indicator
- Transmission oil pressure indicator with audible alarm
- Transmission oil temperature indicator
- Turn signals
- Seat belt with retractors
- Trainer's seat
- Windshield washer and wiper

Overall Vehicle

- 26.5R25 radial, earthmover tires
- Center-mounted cab
- High-density polyethylene bearing in oscillation joint
- Independent front and rear chassis
- Leading A frame supported on oil/nitrogen suspension struts
- Mud covers (brake calipers)
- Tri-link rear suspension with 18% of travel

Control Owning and Operating Costs

Total Repair Cost Management (TRCM) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

OilScan® Plus program – tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. OilScan Plus oil analysis is included in most SECURE®-Extended warranty and preventive-maintenance agreements.

Component life-cycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by

ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

SECURE-Extended warranty – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And a SECURE-Extended contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

Customer Support Advisors (CSAs) – Deere believes the CSA program lends a *personal* quality to Total Repair Cost Management. Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with ROPS cab; 26.5R25, radial earthmover tires; full fuel tank; 175-lb. (79 kg) operator; and standard equipment. Capacity and loaded weights are based on 2,800-lb./cu. yd. (1660 kg/m³) material.

