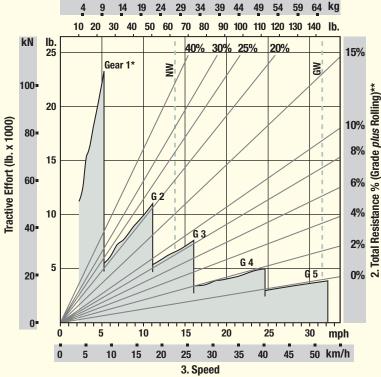
Engine	400C				
Type					
Aspiration					
Cooling system			air-to-air aftercooler		
Rated power (conforms to SAE J1349)					
Maximum net torque			7 © 2,100 Ipili		
Displacement					
Displacement	032 Gu. III. (14.0 L)				
Transmission					
Configuration			nydraulically actuated multiple-	-disc clutches, electronic	
	control, hydrodynamic torque converter with lock-up				
Stall torque ratio					
	Forward (low range)	Reverse (low range)	Forward (high range)	Reverse (high range	
Gear 1		4 mph (7 km/h)	5 mph (8 km/h)	10 mph (16 km/h)	
Gear 2	7 mph (11 km/h)		11 mph (18 km/h)		
Gear 3	9 mph (15 km/h)		16 mph (26 km/h)		
Gear 4	14 mph (23 km/h)		24 mph (38 km/h)		
Gear 5	18 mph (29 km/h)		31 mph (49 km/h)		
Transfer Box					
	romata tua anaad Italia	al goored with leakable to	proportioning interests differen	ntial	
Configuration		a geareu with lockable torque	-proportioning interaxie differe	iiudi	
Output torque split	28 ITOHL / 72 Tear				
Axles					
Differential type	spiral bevel gear with co	ntrolled traction			
Final drive type					
Braking System					
	dual-circuit, air-over-hydraulic, dry-disc brakes on all six wheels				
Park and secondary				mounted, dry disc	
Auxiliary brake	automatic engine valve b	rake actuation (includes butte	rfly exhaust brake valve)		
Maximum retardation	340 hp (250 kW)				
maximum rotaraaton	, , ,				
	,				
Pneumatic System		And with the district breaken and i	late and male advantable		
Pneumatic System  Type	four-way pressure protec	eted with air drier, heater and i	integral unloader valve		
Pneumatic System	four-way pressure protec	eted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type  System pressure	four-way pressure protec	eted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type System pressure  Electrical System	four-way pressure proted	ted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type	four-way pressure proted (135 psi (930 kPa)	ted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type	four-way pressure protection	eted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type	four-way pressure protection	ted with air drier, heater and i	integral unloader valve		
Pneumatic System  Type	four-way pressure protection	eted with air drier, heater and i	integral unloader valve		
Type	four-way pressure protect				
Pneumatic System  Type System pressure  Electrical System  Voltage Battery type Battery capacity Alternator rating  Steering System  Type	four-way pressure protect				
Pneumatic System  Type	four-way pressure protect				
Pneumatic System Type	four-way pressure protect				
Type	four-way pressure protect				
Type	four-way pressure protect	lated with two double-acting l			
Pneumatic System  Type	four-way pressure protect	lated with two double-acting l			
Type		lated with two double-acting l ng system placement			
Pneumatic System  Type		lated with two double-acting l ng system placement			
Pneumatic System  Type		lated with two double-acting l ng system placement			
Pneumatic System  Type		ng system placement governed engine speed			
Pneumatic System  Type		ng system placement governed engine speed			

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.

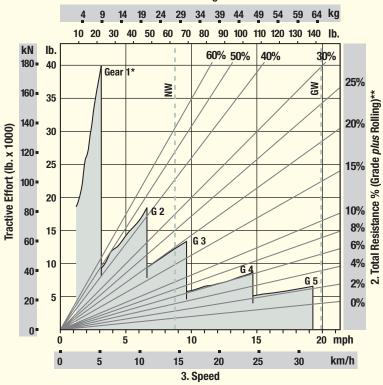
# HIGH RANGE 1. Machine Weight x 1000



\*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.

\*\*2% rolling resistance assumed in chart.

# LOW RANGE 1. Machine Weight x 1000



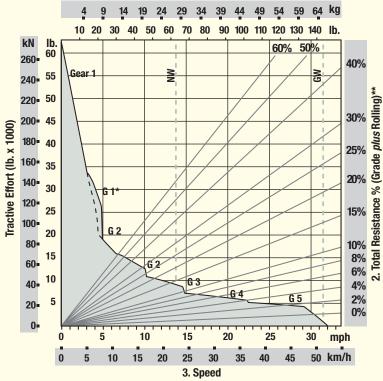
\*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.

\*\*2% rolling resistance assumed in chart.

# Gradeability

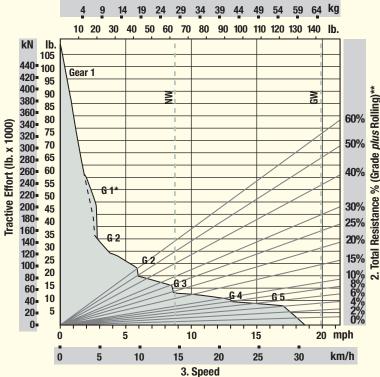
1. Read from total weight down to % total resistance (diagonal line). 2. From that point, read horizontally to curve with highest attainable speed range. 3. Read down to maximum speed.

# HIGH RANGE 1. Machine Weight x 1000



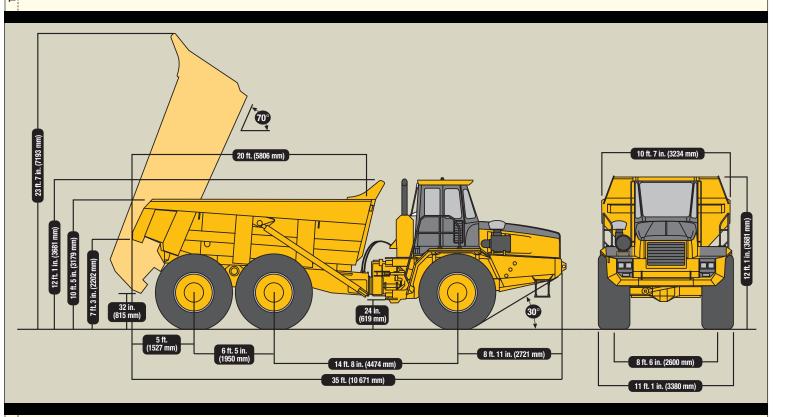
\*Gear 1 lock-up not engaged automatically, engages only when Gear 1 selected manually.
\*\*2% rolling resistance assumed in chart.

# LOW RANGE 1. Machine Weight x 1000



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

Tires/Wheels	400C				
Type					
Size					
Maximum ground pressure (loaded)					
Suspension					
	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					
		29 cu. yd. (22 m <sup>3</sup> ) @ 2 to 1 SAE ratio			
Rated payload	80,468 lb. (36 500 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	• ,	Axle oil (front)			
Engine coolant	16.9 gal. (64 L)	Axle oil (middle)	11.8 gal. (45 L)		
Transmission fluid (refill)		Axle oil (rear)			
Transfer case oil			3 ( 3 )		
Operating Weights					
Empty		Loaded			
Front	31,284 lb. (14 190 ka)	Front	45,702 lb. (20 730 kg)		
Middle					
Rear	, , ,		48,524 lb. (22 010 kg)		
Total	, ( ),		143,190 lb. (64 950 kg)		
SAE Turning Radius Dimensio Inside turning circle radius		Outside turning circle radius	30 ft Q in (0208 mm)		



# Additional Equipment

**Key:** ● Standard equipment ▲ Optional or special equipment

See your John Deere dealer for further information.

- DaimlerChrysler 0M442LA V8, 410 SAE net hp (306 kW)
- Crankshaft-driven fan
- Electric start aid
- Integral engine valve brake
- Turbocharged and aftercooled

### **Power Train**

- Automatic exhaust brake
- Automatic planetary transmission hydrodynamic torque converter with
- Automatic transmission retarder
- Computer controlled for adaptive
- Control traction differentials on all drive axles
- Dual-circuit, air-over-hydraulic, drydisc 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
- 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

# Tipping Body (continued)

- ▲ Body liner (3/8 in. [10 mm])
- Body liner (5/8 in. [16 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
- 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

# Operator Station (continued)

- Brake overstroke indicator
- Cold-start indicator
- 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 indi-
- Turn signals
- Seat belt with retractors
- Trainer's seat
- Windshield washer and wiper

#### **Overall Vehicle**

- 29.5R25 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 serv-

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: 29.5R25, 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.

