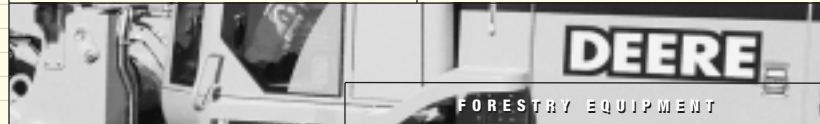


# 1458 1758

FORWARDERS

SPECIFICATIONS



Engine	1458	1758
Type	Cummins 6BTA-5.9 water-cooled turbocharged diesel	Cummins 6CT-8.3 water-cooled turbocharged diesel
Rated power	175 SAE gross hp (129 kW) @ 2,000 rpm	214 SAE gross hp (160 kW) @ 2,200 rpm
Cylinders	6	6
Displacement	360 cu. in. (5.9 L)	507 cu. in. (8.3 L)
Maximum net torque	512 lb.-ft. (694 Nm) @ 1,500 rpm	643 lb.-ft. (872 Nm) @ 1,500 rpm
Air cleaner	two stage with safety element and dust unloader valve	two stage with safety element and dust unloader valve
Cooling system	heavy-duty radiator coolant recovery reservoir with coolant level indication	heavy-duty radiator coolant recovery reservoir with coolant level indication
Cooling fan	suction-type	suction-type

Electrical	1458 / 1758
Type	24 volt with 140-amp alternator
Batteries (two 12 volt)	1,200 cold cranking amps (140 Ah)

Transmission	1458	1758
Type	hydrostatic mechanical with two-speed gearbox, disconnection of rear axle drive with high range	hydrostatic mechanical with two-speed gearbox, disconnection of rear axle drive with high range
Travel speeds, forward and reverse		
High	0–13.7 mph (0–22.0 km/h)	0–14.3 mph (0–23.0 km/h)
Low	0–5.0 mph (0–8.0 km/h)	0–5.0 mph (0–8.0 km/h)
Maximum tractive effort	39,342 lb. (170 kN)	49,440 lb.-ft. (200 kN)

Axles	1458		1758	
	<i>Six-Wheel</i>	<i>Eight-Wheel</i>	<i>Six-Wheel</i>	<i>Eight-Wheel</i>
Type	rigid single axle in front and balanced bogie axle with portal-type bogie beams in rear	balanced bogie axle with portal-type bogie beams in front and rear	rigid single axle in front and balanced bogie axle with portal-type bogie beams in rear	balanced bogie axle with portal-type bogie beams in front and rear
Final drives	heavy-duty planetary, mounted outboard in front, inboard in rear	heavy-duty planetary, mounted inboard in front and rear	heavy-duty planetary, mounted outboard in front, inboard in rear	heavy-duty planetary, mounted inboard in front and rear
Differentials	hypoid type, hydraulically operated mechanical differential locks front and rear	hypoid type, hydraulically operated mechanical differential locks front and rear	hypoid type, hydraulically operated mechanical differential locks front and rear	hypoid type, hydraulically operated mechanical differential locks front and rear

Brakes	1458 / 1758
Service brakes	foot-pedal operated, hydraulically activated, oil immersed, multiple disc, inboard
Working brake	automatically operated, spring applied, hydraulically released, oil immersed, inboard
Parking brake	automatically or manually operated, spring applied, hydraulically released, oil immersed, inboard

Steering	
Type	articulated frame steering with two hydraulic steering cylinders
Frame articulation	84 degrees total articulation, stop to stop
Steering control	proportional, electrical mini-joystick over hydraulics

Hydraulic System	1458	1758
Type	load sensing with power control	load sensing with power control
Working hydraulics	variable-displacement pump	variable-displacement pump
Rated flow @ 1,500 rpm	55.5 gpm (210.0 L/min.)	55.5 gpm (210.0 L/min.)
Pressure	3,117 psi (21 500 kPa)	3,117 psi (21 500 kPa)
Powertrain hydraulics	variable-displacement pump/motor	variable-displacement pump/motor
Rated flow @ 1,500 rpm	49.5 gpm (187.5 L/min.)	71.3 gpm (270.0 L/min.)

## Total Machine Control

### System (TMC™) 1458 / 1758

Controls engine, transmission, and boom driver-specific parameters for seven operator and two factory settings

<b>Boom</b>		<b>1458</b>	<b>1758</b>
Type .....		knuckleboom with telescopic outer boom (Model TJ71 or TJ71S)	knuckleboom with telescopic outer boom (Model TJ111)
Gross lifting torque			
Model TJ71 .....		73,018 lb.-ft. (99 kN)	
Model TJ71S .....		81,130 lb.-ft. (110 kN)	
Model TJ111 .....			111,370 lb.-ft. (151 kN)
Gross swing torque			
Model TJ71 .....		17,994 lb.-ft. (24.4 kN)	
Model TJ71S .....		19,910 lb.-ft. (27 kN)	
Model TJ111 .....			30,240 lb.-ft. (41 kN)
Maximum reach .....		23 ft. 7 in. (7.2 m) standard / 27 ft. 10 in. (8.5 m) optional	23 ft. 7 in. (7.2 m) standard
Swing angle .....		380 degrees	380 degrees

<b>Wood Bunk</b>		<b>1458</b>	<b>1758</b>
Maximum cross section.....		49.5 sq. ft. (4.6 m <sup>2</sup> )	57.1 sq. ft. (5.3 m <sup>2</sup> )
Payload (stacked) .....		6.8 cords (25 m <sup>3</sup> )	7.9 cords (29 m <sup>3</sup> )

<b>Tires</b>		<b>1458</b>		<b>1758</b>	
		<i>Six-Wheel</i>	<i>Eight-Wheel</i>	<i>Six-Wheel</i>	<i>Eight-Wheel</i>
Front					
Standard .....		700x34, 14 PR	700x26.5, 16 PR	700x34, 16 PR	750x26.5, 20 PR
Optional.....		600x34, 14 PR	600x26.5, 16 PR	N/A	650x26.5, 20 PR
Rear					
Standard .....		700x26.5, 16 PR	700x26.5, 16 PR	750x26.5, 20 PR	750x26.5, 20 PR
Optional.....		600x26.5, 16 PR	600x26.5, 16 PR	650x26.5, 20 PR	650x26.5, 20 PR

<b>Ground Pressure Data</b>		<b>1458</b>		<b>1758</b>	
		<i>Six-Wheel</i>	<i>Eight-Wheel</i>	<i>Six-Wheel</i>	<i>Eight-Wheel</i>
With standard tires .....		9.72 psi (67 kPa)	7.4 psi (51 kPa)	9.72 psi (67 kPa)	7.11 psi (49 kPa)

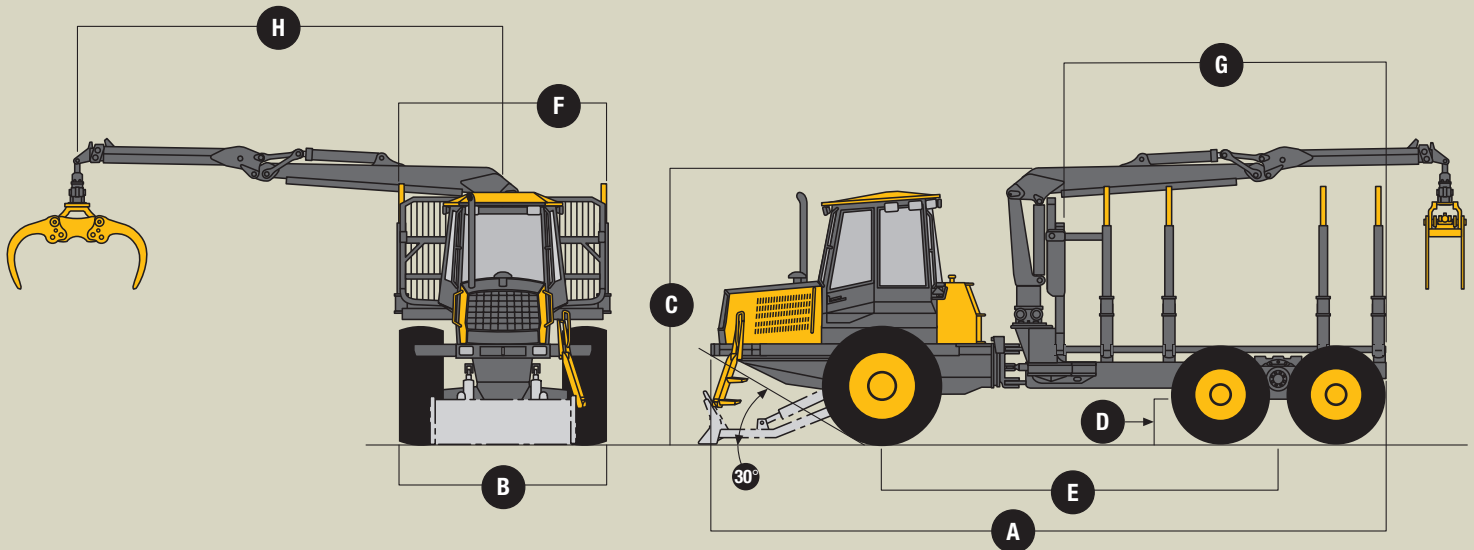
<b>Capacities</b>		<b>1458</b>	<b>1758</b>
Fuel tank .....		43.6 gal. (165 L)	47.6 gal. (180 L)
Cooling system.....		8.2 gal. (31 L)	7.7 gal. (29 L)
Hydraulic reservoir .....		37.0 gal. (140 L)	50.2 gal. (190 L)

<b>Operating Weights/ Load Rating</b>		<b>1458</b>		<b>1758</b>	
		<i>Six-Wheel</i>	<i>Eight-Wheel</i>	<i>Six-Wheel</i>	<i>Eight-Wheel</i>
Standard equipment.....		33,500 lb. (15 200 kg)	36,800 lb. (16 700 kg)	39,000 lb. (17 700 kg)	42,300 lb. (19 200 kg)
Load rating.....		30,900 lb. (14 000 kg)	30,900 lb. (14 000 kg)	37,480 lb. (17 000 kg)	37,480 lb. (17 000 kg)

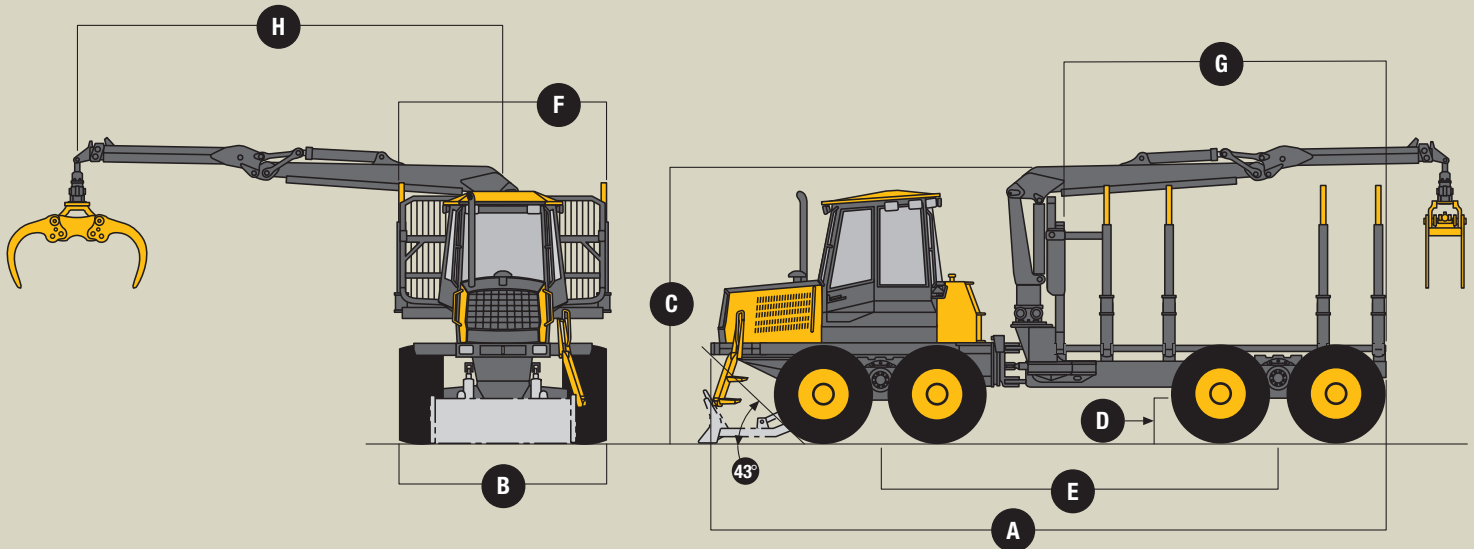
**Dimensions**

	<b>1458</b>		<b>1758</b>	
	<i>Six-Wheel</i>	<i>Eight-Wheel</i>	<i>Six-Wheel</i>	<i>Eight-Wheel</i>
<b>A</b> Length .....	34 ft. 2 in. (10 405 mm)	34 ft. 2 in. (10 405 mm)	35 ft. 7 in. (10 850 mm)	35 ft. 7 in. (10 850 mm)
<b>B</b> Width				
With 600x34 series tires in front.....	9 ft. 6 in. (2890 mm)	N/A	N/A	N/A
With 600x26.5 series tires.....	9 ft. 6 in. (2890 mm)	9 ft. 6 in. (2890 mm)	N/A	N/A
With 650x26.5 series tires.....	N/A	N/A	10 ft. 4 in. (3150 mm)	10 ft. 4 in. (3150 mm)
With 700x34 series tires in front.....	10 ft. 1 in. (3070 mm)	N/A	10 ft. 6 in. (3190 mm)	N/A
With 700x26.5 series tires.....	10 ft. 1 in. (3070 mm)	10 ft. 1 in. (3070 mm)	N/A	N/A
With 750x26.5 series tires.....	N/A	N/A	10 ft. 6 in. (3190 mm)	10 ft. 6 in. (3190 mm)
<b>C</b> Transport height.....	12 ft. 2 in. (3700 mm)	12 ft. 2 in. (3700 mm)	12 ft. 10 in. (3900 mm)	12 ft. 10 in. (3900 mm)
<b>D</b> Ground clearance.....	24.8 in. (630 mm)	24.8 in. (630 mm)	28.7 in. (730 mm)	28.7 in. (730 mm)
<b>E</b> Wheelbase.....	17 ft. 3 in. (5250 mm)	17 ft. 3 in. (5250 mm)	19 ft. 4 in. (5900 mm)	19 ft. 4 in. (5900 mm)
<b>F</b> Load stake width.....	9 ft. 1 in. (2760 mm)	9 ft. 1 in. (2760 mm)	9 ft. 8 in. (2953 mm)	9 ft. 8 in. (2953 mm)
<b>G</b> Length of wood bunk.....	17 ft. 10 in. (5425 mm)	17 ft. 10 in. (5425 mm)	18 ft. (5480 mm)	18 ft. (5480 mm)
<b>H</b> Reach.....	23 ft. 7 in. (7200 mm)	23 ft. 7 in. (7200 mm)	23 ft. 7 in. (7200 mm)	23 ft. 7 in. (7200 mm)

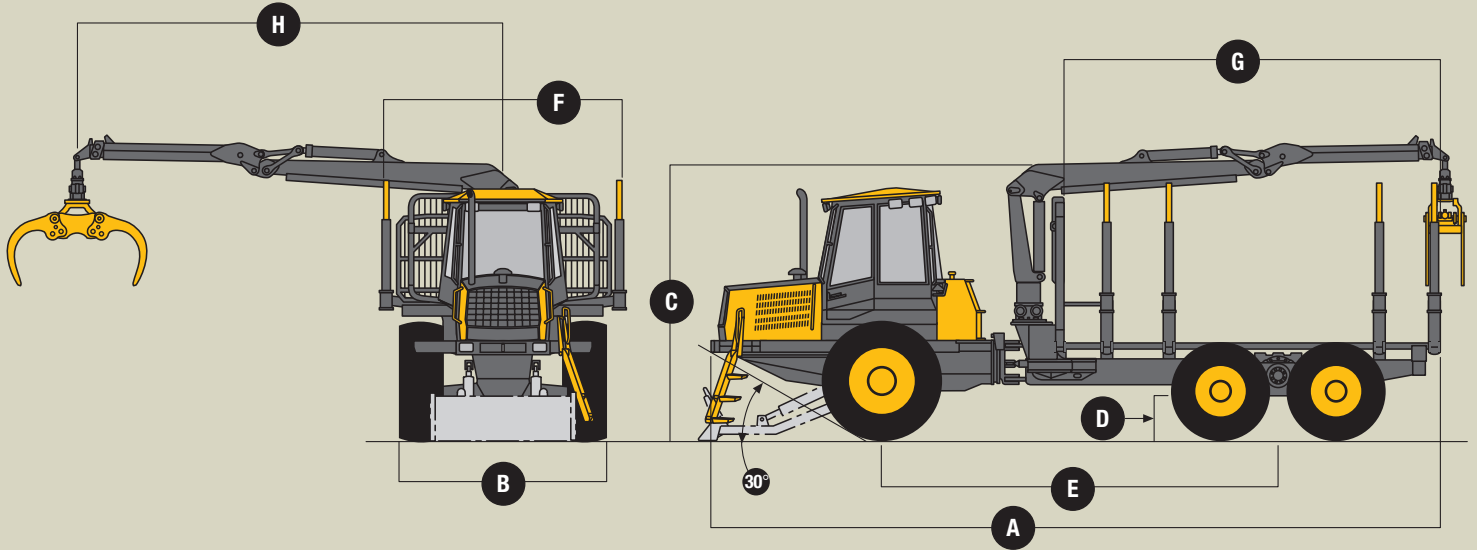
**1458 Six-Wheel Forwarder**



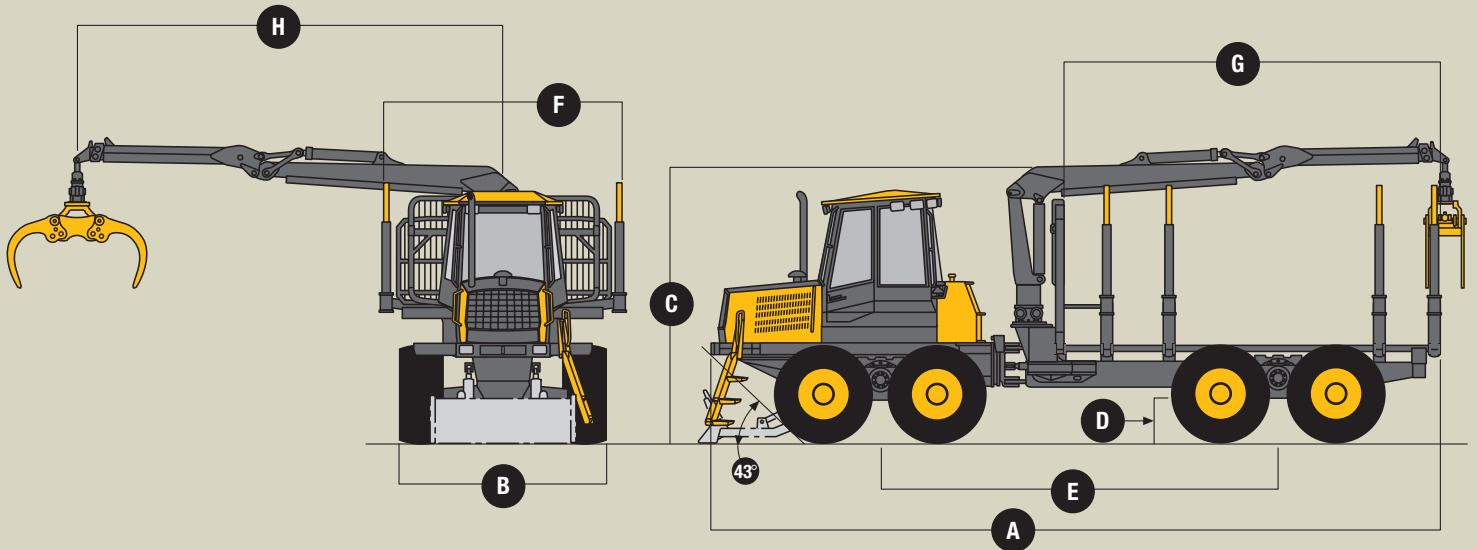
**1458 Eight-Wheel Forwarder**



### 1758 Six-Wheel Forwarder



### 1758 Eight-Wheel Forwarder



## 1458 / 1758 Forwarders

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

See your John Deere dealer for further information.

### 1458 1758 Engine

- Cummins 6BTA-5.9
  - Cummins 6CT-8.3
- Antifreeze to -34°F (-37°C)
- Electric fuel shutoff with start switch key
- Fuel filter, quick release
- Isolation-mounted engine
- Oil-to-water engine oil cooler
- Suction-type cooling fan, enclosed with guard
- Coolant recovery tank
- In-line injection pump

### Electrical

- 24 volt
- Alternator, 140 amp
- Dual, heavy-duty, low-maintenance batteries
- Work lights

### Transmission

- Hydrostatic mechanical transmission
- Protected electric/hydraulic range shift of two-speed gearbox
- Disconnection of rear axle drive with high range

### Axles

- Rigid single axle in front and balanced bogie axle with portal-type bogie beams in rear (six-wheel model)
- Balanced bogie axle with portal-type bogie beams in front and rear (eight-wheel model)

### Brakes

- Service: Foot-pedal operated, hydraulically activated, oil immersed, multiple disc, inboard
- Work: Automatically operated, spring applied, hydraulically released, oil immersed, inboard
- Park: Automatically or manually operated, spring applied, hydraulically released, oil immersed, inboard

### Steering

- Frame articulation, with 84 degrees total articulation
- Lever steering, left-hand armrest-mounted control

### 1458 1758 Hydraulic System

- Load sensing
- Low-effort mini-joystick controls
- Heavy-duty oil cooler, side by side with radiator
- Oil filter, return, 10 micron with bypass
- Open-center hydraulics for boom
- Quick disconnect diagnostic ports

### Total Machine Control System (TMC™)

- Controls engine, transmission, and boom
- Driver-specific parameters for seven (7) operator and two (2) factory settings
- Gauge and indicator light information displayed on graphic screen (engine coolant temperature, hydraulic oil temperature, voltage, etc.)

### Boom and Grapple

- Knuckleboom with telescopic outer boom
- Boom, 23 ft. 7 in. (7.2 m)
- Boom, 27 ft. 10 in. (8.5 m)
- ▲ Grapple, 2.8 sq. ft. (0.26 m<sup>2</sup>)
- Grapple, 3.9 sq. ft. (0.36 m<sup>2</sup>)
- Grapple, 4.5 sq. ft. (0.42 m<sup>2</sup>)
- Single dampened steel link

### Wood Bunk

- Cross section, 49.5 sq. ft. (4.6 m<sup>2</sup>) maximum
- Cross section, 57.1 sq. ft. (5.3 m<sup>2</sup>) maximum
- Fixed headboard with hydraulic extension

### Operator's Station

- Air conditioner (R134A refrigerant)/heater
- AM-FM stereo radio/cassette with two (2) remote-mounted speakers
- Parallel cab tilt with onboard hydraulic/lift
- Cab with integral forestry guarding, FOPS, OPS, and ROPS protective structure
- Fire extinguisher, 10 lb.
- Floor mat
- Coat hook
- TMC display
- Horn

### 1458 1758 Operator's Station (continued)

- Rearview mirror, interior mounted
- Seat, fabric covered, mechanical suspension: Lumbar adjustment / Weight adjustment / Seat armrest height adjustment / High back / Seat backrest angle adjustment / 230-degree seat rotation with three-position lock pedestal
- Seat belt, 2-in. (51 mm) wide with retractor (conforms to SAE J386)
- Secondary exit (right side window)
- Tinted polycarbonate windows
- Storage compartment with spare parts catalog and operator's manual
- Windshield wiper/washer
- Sun blinds, all windows

### Tires

- 700x34 front and 700x26.5 rear (six-wheel)
- ▲ 600x34 front and 600x26.5 rear (six-wheel)
- 700x26.5 front and rear (eight-wheel)
- ▲ 600x26.5 front and rear (eight-wheel)
- 700x34 front and 750x26.5 rear (six-wheel)
- ▲ 700x34 front and 650x26.5 rear (six-wheel)
- 650x26.5 front and rear (eight-wheel)
- ▲ 750x26.5 front and rear (eight-wheel)

### Overall Vehicle

- Articulation transport lock pin
- Cable-type cab guards/engine hood guard
- Hand grips
- Hose carrier
- Hydraulically operated steps
- Quick-coupling for fuel filling
- Refill pump for fuel filling, electrical
- Reverse warning alarm
- Tow hook
- Vacuum pump for hydraulic system, electrical
- ▲ Decking blade
- ▲ Rear window sun curtain
- ▲ Working lights on boom (two 70 watt)
- ▲ Extra working lights on cab and rear

## 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.



JOHN DEERE

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. No derating is required up to 10,000 feet (3050 m) altitude. 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 units with all standard equipment, full fuel tanks, and 175-lb. (79 kg) operators.

