

# 244J

44 kW (59 HP)



JOHN DEERE



## Loader key specifications:

<b>Rated Net Power:</b>	44 kW	(59 hp)
<b>Full-Turn Tip Load:</b>	3501 kg	(7,718 lb.)
<b>Bucket Breakout Force:</b>	4895 kg	(10,792 lb.)
<b>Operating Weight:</b>	5240 kg	(11,552 lb.)





# Big productivity in a compact package.

Want a compact machine with super-sized features? Step up to the tight-turning, heavy-lifting 244J Loader. This versatile machine combines best-in-class maneuverability, travel speed, breakout force, reach, and stability — letting it tackle tasks that other machines can't. Oscillating stereo steering delivers a smooth-turning radius that's 20-percent tighter than comparable loaders — for faster cycle times and less material spillage. Add to that a spacious cab, virtually unrestricted visibility, and standard return-to-dig, and the 244J delivers big-time stability, performance, comfort, and convenience in a compact package.



# Run in some pretty tight circles.

Navigating crowded jobsites often isn't easy. While most machines are forced into three-point turns (or worse), the 244J's oscillating stereo steering allows a 3.78 m (148-inch) turn radius for unsurpassed maneuverability. Delivers higher tipping load capacities, too. What's more, the hydrostatic drivetrain's infinitely variable range lets you precisely match travel speed to the work at hand. So you can inch ahead while maintaining full hydraulic power. Or max out at 30 km/h (19 mph). Lets you move more materials, more quickly and more efficiently. Without running you ragged.



1. Boom float allows easy backdragging for finish grading and cleaning up jobsites. Return-to-dig is standard, too.

2. An oscillating rear axle and elastic articulation at the pivot smooth the ride for greater material retention and reduced operator fatigue.

3. Manual low-speed differential lock delivers the traction needed to go deeper into the pile for bigger bucket loads.

4. With its long reach, the 244J easily dumps to the center of tandem-axle trucks for quicker and easier loading.



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# Easy to get in. Easy to get working.

Climb aboard the 244J and you'll see why this machine takes a back seat to nothing. Its spacious sound-suppressed cab provides ample headroom, best-in-class all-around visibility, and much more. A single lever with FNR switch controls all boom and bucket functions, and standard return-to-dig is just a flick-of-the-wrist away. Gauges in the forward console are clearly visible, intuitive, and easy to read. Tilt steering, multi-adjustable high-back suspension seat, electronic monitor, and many more productivity-boosting features are also standard.



Low- and high-speed ranges provide infinitely variable travel speeds. Inching/brake pedal lets you slow travel speed while keeping engine rpm high for optimum hydraulic response and control.

Interior and exterior convex mirrors further enhance the 244J's best-in-class visibility.

Opt for the highly efficient HVAC system and make your operator even more productive. Automotive-type louvers help keep the view clear, the cab comfortable.



1. Walk-through cab lets you enter or exit easily from either side.



2. Boom and bucket control, FNR, and differential lock are on the same low-effort lever for convenient single-handed control.



3. Easy-to-read monitor tracks rpm, hours, engine oil pressure, and more. Issues both visible and audible warnings.



4. Oscillating axle/elastic articulation reduces cab tilt by as much as 50 percent, for a smoother ride that's easier on both machine and operator.

Change hydraulic flow with a twist of your wrist.

Unobstructed line of sight to attachments makes switchover quick and easy.

Optional fourth-function valve delivers generous flow for powering hydraulic-driven attachments such as augers.



# If it's not one thing, it's another.

Why invest in a bunch of specialized machines when the highly versatile 244J can do the job? With its standard pin-type hydraulic quick-coupler, the 244J lets you go from bucket to forks, quickly and easily. Or opt for the Worksite Pro™ skid-steer-style coupler that enables this jack-of-all-trades machine to utilize an even wider array of skid-steer-compatible Worksite Pro attachments. Operation is easy, with joystick and third- and fourth-function pilot controls conveniently located at your fingertips. Regardless of how you equip it, the 244J will be the most versatile compact machine on your worksite.



1. If you change attachments often, you'll appreciate the push-button-actuated skid-steer-style coupler that lets you attach and release attachments quickly, without tools or leaving the seat.

2. Blades, buckets, and pushers make this loader a natural for removing whatever winter drops your way.

3. Scrap and brush-tine grapples let you move a variety of materials — from scrap bales to branches.

4. Whether you're shuttling sand or carving through clay, we've got the right utility, heavy-duty, or tooth bucket for the task.

5. Like its green and yellow siblings, the 244J feels right at home on the farm. Equipped with bale spear, forks, or bucket, this highly maneuverable machine handles a multitude of chores.



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Wet-disc brakes in the heavy-duty axles self-adjust and are sealed from moisture and contaminants for long, trouble-free life.

Proportional fan runs only as needed to provide optimal cooling — for reduced wear and tear on cooling components.

Turbocharged Deere PowerTech™ diesel runs quiet and meets EPA Interim Tier 4/EU Stage IIIb emissions, so it can work where rigid sound- and air-quality regulations exist.

Access to the hydraulic loader valve, differential lock, optional ride control, and other components is quick and convenient.



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1. Remote test ports enable technicians to quickly troubleshoot problems.

2. Steering linkage is positioned where it's protected and supported by brackets with easily replaceable wear strips.

3. Angled self-cleaning steps and ergonomically positioned grab bars make getting in and out of the cab easier.

4. A/C condenser tilts out and away from the radiator for easier clean-out. Doesn't require draining fluids or disconnecting hoses.

5. Wear-resistant hoses are routed where they're protected. Heavy-duty articulation joints are strong and durable.





# Ready to work wherever and whenever you are.

More often than not, it's the weather and countless other unplanned interruptions that make the difference between a job well done and a job gone wrong. Improve your chances for success with the small-but-serious 244J. Incorporating many of the same durability features found on our larger loaders, it's built to keep downtime down with sealed electrical connectors, flat-face O-ring-seal hydraulic couplings, and self-adjusting wet-disc brakes, to list just a few. The 244J will help keep your operator out of harm's way, too, with numerous safety features such as an automatic park brake, bypass-start protection, slip-resistant steps, and convenient handholds.



Fuel-efficient John Deere diesel runs 500 hours between oil changes. Hydraulic valve lifters and serpentine belt never require adjustment.

Remote lube bank puts rear axle zerks within easy reach. Convenient maintenance chart helps ensure that nothing gets overlooked.

Easily accessible maintenance-free batteries are connected in parallel for reliable electrical power. Electrical disconnect switch helps prevent theft or vandalism.

Easy-lift lockable hood and transverse-mounted engine provide convenient ground-level access to daily checkpoints.

# Here's the lowdown on low daily operating costs.

We spared no expense to help keep the 244J's operating costs low. From the transverse-mounted John Deere diesel that provides convenient ground-level service access, to easy-to-change vertical spin-on filters, this versatile loader will require less of your time or attention. Extended service intervals, environmentally friendly drains, sight gauges — the list of J-Series features that help minimize maintenance goes on and on. And so will the daily operating cost savings you'll enjoy.

1. Hydraulically driven fan runs only as needed for efficient cooling, reduced noise, and lower fuel consumption.
2. Easy-access fuse panel accommodates quick checks and changes.
3. Electronic control unit lets service technicians easily retrieve vital operating information and helps diagnose problems more quickly.
4. Hydraulic fluid sight gauge and see-through coolant reservoir let you check fluid levels at a glance.
5. Easy-access vertical spin-on filters and environmental drains make fluid changes quick and clean.
6. Nobody backs you better than the 1,200-plus John Deere CWP dealers throughout North America.



244J

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<b>Engine</b>	<b>244J</b>
Manufacturer and Model	John Deere PowerTech™ 4024T
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB
Cylinders	4
Valves per Cylinder	2
Displacement	2.4 L (147 cu. in.)
Net Rated Power at 2,800 rpm, SAE	44 kW (59 hp)
Net Peak Power at 2,600 rpm, SAE	46 kW (62 hp)
Maximum Net Torque at 1,600 rpm	222 Nm (163 lb.-ft.)
Lubrication	Pressure system with full-flow spin-on filter
Fuel System	Electronically controlled unit injection pump
Aspiration	Turbocharged
Air Cleaner	Dual safety element dry type
<b>Cooling</b>	
Hydraulically driven, proportionally controlled fan	
Engine Coolant Rating	-37 deg. C (-34 deg. F.)
<b>Powertrain</b>	
Hydrostatic (HST) with infinitely variable speed control over full range of operating speeds; 2 speed ranges; joystick-mounted F-N-R; acceleration pedal; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow	
2 Travel Speeds in Forward and Reverse (equipped with 365/70R18 tires)	
Gear 1	6.9 km/h (4.3 mph)
Gear 2	29.9 km/h (18.6 mph)
<b>Axles</b>	Rear center-pivot axle with 10-deg. rear axle oscillation and 10-deg. frame oscillation
Rear Axle Oscillation Versus Front Axle	20 deg. total, stop to stop
<b>Differentials</b>	Manual (push-button) locking front, conventional rear
Maximum Rise and Fall, Single Wheel	254 mm (10 in.)
<b>Steering</b>	Hydraulic power steering (SAE J1511); 30-deg. articulation left and right with mechanical actuated rear-wheel steer emergency steering system; 26-deg. rear-wheel steering tied mechanically to articulation; equivalent of 97-deg. conventional steering system articulation
Articulation Angle	56-deg. arc (28 deg. each direction)
<b>Final Drive</b>	Heavy-duty outboard planetary
<b>Brakes</b> (SAE J1473 and ISO 3450)	
Service Brakes	Hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake
Parking Brake	Automatically spring-applied, hydraulically released, internal wet disc
<b>Hydraulics</b>	
Main Pump (loader and steering)	Fixed-displacement gear pump; open-center system
Maximum Rated Flow at 6895 kPa (1,000 psi)	64 L/m (17 gpm)
System Relief Pressure	
Loader	21 994 kPa (3,190 psi)
Steering	18 002 kPa (2,611 psi)
<b>Hydraulic Cycle Times</b>	
Raise	4.9 sec.
Dump	1.4 sec.
Lower	
Float Down	4.0 sec.
Power Down	3.6 sec.
Total	9.9 sec.
<b>Maximum Lift Capacity</b>	<i>With 0.8-m<sup>3</sup> (1.0 cu. yd.) bucket with bolt-on cutting edge</i>
Lift at Ground Level	4491 kg (9,892 lb.)
Lift at Maximum Height	2909 kg (6,407 lb.)
<b>Turning Radius</b>	
Measured to Centerline of Outside Tire	3.51 m (11 ft. 6 in.)
<b>Controls</b>	Pilot-operated, 3-function valve with single-lever control for boom and bucket, and auxiliary level for standard pin disconnect and auxiliary hydraulics, with control-lever lockout feature; optional additional 4-function valve with push-button control



**Electrical** 244J

Electrical load center with blade-type multi-fused circuits

Voltage	12 volt
Battery Capacity	1,700 CCA
Reserve Capacity	160 min.
Alternator Rating	65 amp

**Lights (SAE 99)** Driving/front working lights (2), turning signals, flashers, stop- and taillights

**Tires/Wheels**

	<i>Tread Width</i>	<i>Width Over Tires</i>	<i>Change In Vertical Height</i>
<b>Standard-Size, 365/70R18 Tires on Single-Piece Rims</b>	1486 mm (58.5 in.)	1849 mm (72.8 in.)	0 mm (0 in.)
<b>400/70R20 (optional)</b>	1471 mm (57.9 in.)	1885 mm (74.2 in.)	+ 48 mm (+ 1.9 in.)

**Serviceability**

**Refill Capacities**

Cooling System (engine and radiator)	10.0 L (10.6 qt.)
Differential and Planetary Axle	
Front	4.0 L (4.2 qt.)
Rear	4.1 L (4.3 qt.)
Engine Oil with Filter	9.0 L (9.0 qt.)
Fuel Tank	81.0 L (21.5 gal.)
Hydraulic/Hydrostatic Reservoir with Filter	61.0 L (16.0 gal.)
Hydrostatic Motor Gearbox	0.8 L (0.8 qt.)
Front/Rear Axle Planetary Hubs (each)	0.9 L (1.0 qt.)

**Operating Weights**

With standard equipment, 365/70R18 tires, standard counterweight, cab, 79-kg (175 lb.) operator, and full fuel tank

With Quick-Coupler and 0.8-m <sup>3</sup> (1.0 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5240 kg (11,552 lb.)
With Quick-Coupler and 1.1-m <sup>3</sup> (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5360 kg (11,817 lb.)
With Quick-Coupler and Fork	5170 kg (11,398 lb.)

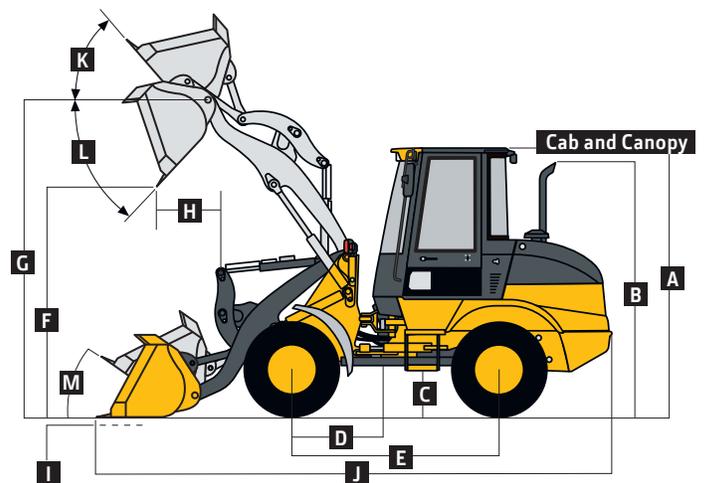
**Optional Components**

Bucket, 0.8 m <sup>3</sup> (1.0 cu. yd.)	334 kg (736 lb.)
Bucket, 1.1 m <sup>3</sup> (1.4 cu. yd.)	429 kg (946 lb.)

**Machine Dimensions**

**DIMENSIONS WITH QUICK-COUPLER AND BUCKET**

<b>A</b> Height to Top of Cab	2.72 m (8 ft. 11 in.)
<b>B</b> Height to Top of Exhaust	2.59 m (8 ft. 6 in.)
<b>C</b> Ground Clearance	295 mm (11.6 in.)
<b>D</b> Length from Centerline of Front Axle	749 mm (29.5 in.)
<b>E</b> Wheelbase	2.15 m (7 ft. 1 in.)
<b>F</b> Dump Clearance, 42-deg. Full Height	▲ (see page 16)
<b>G</b> Height to Hinge Pin, Fully Raised	3.20 m (10 ft. 6 in.)
<b>H</b> Dump Reach, 42-deg. 2.13-m (7 ft.) Clearance	▲▲ (see page 16)
<b>I</b> Maximum Digging Depth	79 mm (3.1 in.)
<b>J</b> Overall Length	▲▲▲ (see page 16)
<b>K</b> Maximum Rollback at Full Height	52 deg.
<b>L</b> Bucket Dump at Full Height	42 deg.
<b>M</b> Maximum Rollback at Ground Level	39 deg.

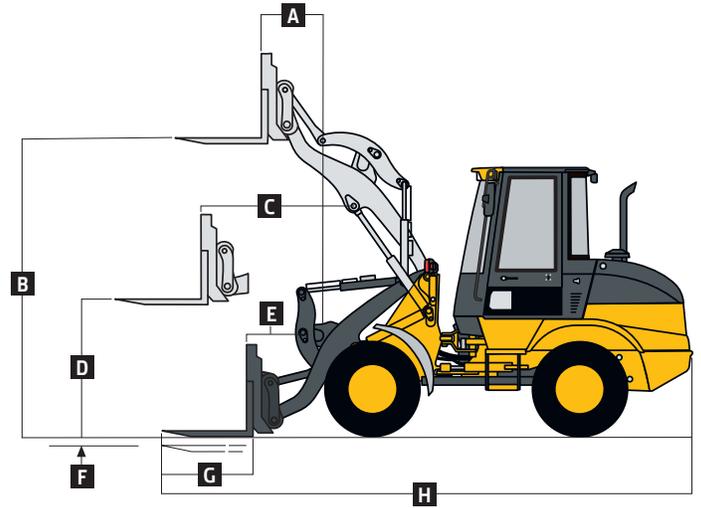


## DIMENSIONS WITH QUICK-COUPLER AND FORK

A	Reach, Fully Raised	551 mm (21.7 in.)
B	Fork Height, Fully Raised	3.04 m (10 ft. 0 in.)
C	Maximum Reach, Fork Level	1.26 m (4 ft. 2 in.)
D	Fork Height, Maximum Reach	1.45 m (4 ft. 9 in.)
E	Reach, Ground Level	742 mm (29 in.)
F	Depth Below Ground	51 mm (2 in.)
G	Tine Length	1.20 m (3 ft. 11 in.)
H	Overall Length	5.79 m (19 ft. 0 in.)

## Tipping Load as Measured with Fork Level, Load Centered on Tine

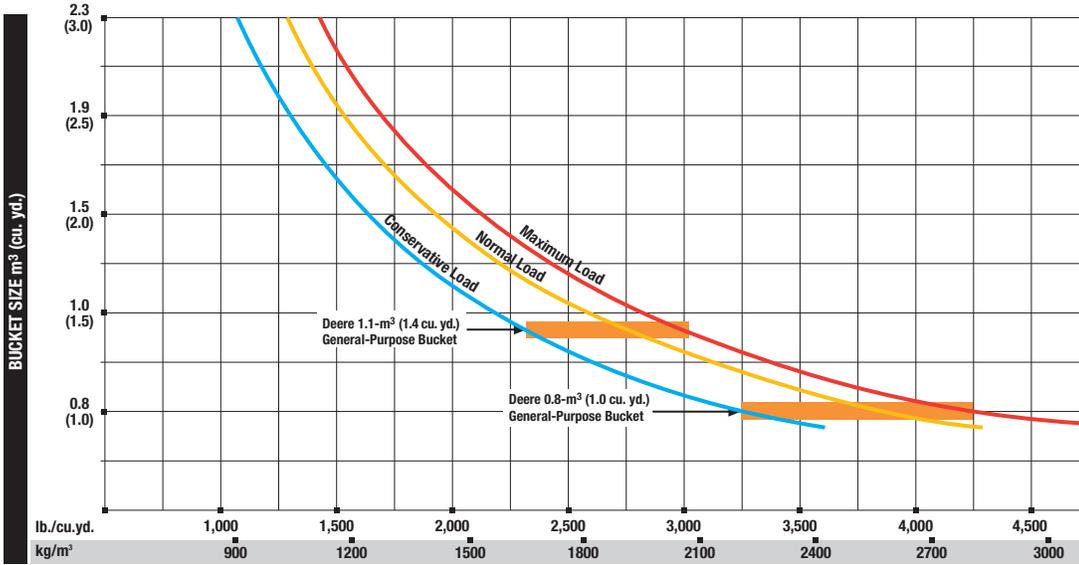
Straight	2905 kg (6,404 lb.)
Full Turn	2652 kg (5,846 lb.)



## Quick-Coupler Bucket Specifications

Bucket Type/Size	Stockpiling/General Purpose w/ Bolt-On Edge	Stockpiling/General Purpose w/ Bolt-On Edge
Capacity, Heaped SAE	0.8 m <sup>3</sup> (1.0 cu. yd.)	1.1 m <sup>3</sup> (1.4 cu. yd.)
Capacity, Struck SAE	0.7 m <sup>3</sup> (0.86 cu. yd.)	0.9 m <sup>3</sup> (1.18 cu. yd.)
Bucket Width	1.9 m (6 ft. 3 in.)	2.2 m (7 ft. 3 in.)
Breakout Force, SAE J732C	4895 kg (10,792 lb.)	4410 kg (9,722 lb.)
Tipping Load, Straight	3836 kg (8,457 lb.)	3786 kg (8,347 lb.)
Tipping Load, Full Turn, SAE	3501 kg (7,718 lb.)	3455 kg (7,617 lb.)
▲▲ Reach, 42-Deg. Dump, 2.13-m (7 ft.) Clearance	1.17 m (3 ft. 10 in.)	1.19 m (3 ft. 11 in.)
▲▲ Reach, 42-Deg. Dump, Full Height	818 mm (32.2 in.)	864 mm (34.0 in.)
▲ Dump Clearance, 42 Deg., Full Height	2.55 m (8 ft. 4 in.)	2.51 m (8 ft. 3 in.)
▲▲▲ Overall Length, Bucket on Ground	5.28 m (17 ft. 4 in.)	5.23 m (17 ft. 2 in.)
Loader Clearance Circle, Bucket Carry Position	7.38 m (24 ft. 3 in.)	7.57 m (24 ft. 10 in.)

Loader operating information is based on machine with standard equipment, 365/70R18 tires, standard counterweight, cab, 79-kg (175 lb.) operator, and full fuel tank. This information is affected by tire size, ballast, and different attachments.



LOOSE MATERIALS	kg/m³	lb./cu. yd.
Chips, pulpwood	288	486
Cinders (coal, ashes, clinkers)	673	1,134
Clay and gravel, dry	1602	2,700
Clay, compact, solid	1746	2,943
Clay, dry in lump loose	1009	1,701
Clay, excavated in water	1282	2,160
Coal, anthracite, broken, loose	865	1,458
Coal, bituminous, moderately wet	801	1,350
Earth, common loam, dry	1218	2,052
Earth, mud, packed	1843	3,105
Granite, broken	1538	2,592
Gypsum	2275	3,834
Limestone, coarse, sized	1570	2,646
Limestone, mixed sizes	1682	2,835
Limestone, pulverized or crushed	1362	2,295
Sand, damp	2083	3,510
Sand, dry	1762	2,970
Sand, voids, full of water	2083	3,510
Sandstone, quarried	1314	2,214
Shale, broken crushed	1362	2,295
Slag, furnace granulated	1955	3,294
Stone or gravel, 37.5 to 87.5-mm (1.5 to 3.5") size	1442	2,430
Stone or gravel, 18.75-mm (3/4") size	1602	2,700

\* This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and uneven surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

# Additional equipment

Key: ● Standard ▲ Optional or special

\*See your John Deere dealer for further information.

## 244J Engine

- Meets EPA Interim Tier 4/EU Stage IIIB emissions
- Antifreeze, -37 deg. C (-34 deg. F)
- Coolant recovery tank
- Fan safety guard
- Fan, suction type, hydraulically driven, proportional speed
- Muffler, under hood with curved end exhaust stack
- Environmentally friendly engine oil drain
- Spin-on engine oil
- Engine oil cooler
- Quick-release fuel filter and water separator
- Under-hood dual-element air cleaner with restriction indicator
- Above-hood prescreened air intake with dust-evacuator valve
- Serpentine drive belt with automatic tensioner
- ▲ Engine coolant heater, 750 watts, 110 volts
- ▲ Special application: Trash screens, etc.\*

## Electrical

- Starter switch with electric fuel cutoff
- 12-volt system
- Electrical load center with blade-type fuses
- Standard batteries (2), 12 volt with 1,700 CCA
- Master electrical disconnect switch
- Alternator, 12 volts, 65 amps
- Horn (conforms to SAE J994, J1446)
- Lights (conform to SAE 99): Driving / Front working (2) / Turn signals / Flashers / Stop / Taillights
- Pre-wired for rear worklights
- ▲ Worklights, rear (2)
- Reverse warning alarm (conforms to SAE J994, J1446)
- Multifunction monitor with audible and visual warnings: Low engine oil pressure / Engine coolant temperature / HST transmission oil temperature / Parking brake indicator / Gauges and indicators: Engine coolant temperature, fuel level, speedometer, clock, and hour meter
- Indicator lights: Engine air filter / Fasten seat belt / Parking brake actuated / Forward/reverse travel / 1st or 2nd speed range / Turn signal and hazard lights / High-beam indicator / Battery voltage

## 244J Electrical (continued)

- Radio-ready cab, fused 12-volt radio electrical lead and speakers, power port
- By-pass starter safety cover on starter, positive terminal battery cover
- Pre-wired for roof beacon
- Sealed external electrical connectors

## Powertrain/Brakes

- Hydrostatic (HST) transmission: Electric shift control / Single-lever joystick F-N-R / Hydrostatic oil cooler / Inching pedal / 2 speeds forward and reverse / Infinitely variable speed control
- Service brakes, hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake
- Parking brake, spring applied, hydraulically released, switch operated
- Axles, manual locking front and conventional rear differentials, heavy-duty outboard planetaries

## Hydraulic System

- Hydraulic system oil cooler
- Automatic bucket return-to-dig control
- Boom float function
- Reservoir sight gauge for hydraulic/hydrostatic oil
- 10-micron hydraulic filter, vertical mounting
- Hydraulic lever lockout
- Pilot-operated 3-function valve with single joystick lever control for boom and bucket, and auxiliary lever for standard pin disconnect and auxiliary hydraulics

- ▲ High-flow option, 94 L/m (25 gpm)

- ▲ 4-function hydraulic valve with pilot joystick control and pilot auxiliary lever for 3rd function, and push buttons for 4th function

- ▲ Hydraulic conversion kits, 4-function valve

- Quick-coupler diagnostic ports: Priority pressure / Hydraulic pump pressure / Control valve pressure / HST pressure

## Operator's Station

- Cab (conforms to SAE J1040, SAE J231, ISO3471, ISO3449): ROPS/FOPS / Heater/defroster / Rubber-plane isolation mounted for noise/vibration reduction / Intermittent front and rear windshield wipers and washers / Tinted safety glass / Full-width adjustable sun visor / Pre-wired for radio speakers / Deluxe high-back cloth seat with mechanical suspension and 51-mm (2 in.) retractable seat belt / Left and right doors

## 244J Operator's Station (continued)

- ▲ AM/FM/WB radio
- ▲ AM/FM/WB radio with CD player
- ▲ Air-conditioning (factory or dealer installed)
- Storage compartment
- Rubber floor mat
- Tilt steering column
- Rearview mirrors, outside (2) and inside (1) (conform to SAE J985)
- Handholds and steps, ergonomically located and slip resistant (conform to SAE J185)

## Loader Linkage

- Z-bar loader linkage
- Loader boom service locking bar (conforms to SAE J38)

## Buckets and Attachments

- ▲ Full line of buckets with selection of bolt-on cutting edges
- Standard quick-coupler, less bucket
- ▲ Pallet fork for standard quick-coupler
- ▲ Worksite Pro™ skid-steer-style coupler
- ▲ Full line of construction utility forks, pallet forks, extendible boom with hook, and other attachments\*

## Tires

- 365/70R18 tires on single-piece rims
- ▲ 400/70R20 tires on single-piece rims

## Other

- Fenders, front and rear
- Articulation locking bar (conforms to SAE J276)
- Vandal protection, includes lockable engine enclosure and fuel fill
- Counterweight, full
- Rear bottom guard
- Drawbar, with locking pin
- ▲ Material-weighing system\*
- ▲ Ride control
- ▲ JDLink™ wireless communication system (available only in U.S. and Canada)



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO9249. No derating is required up to 1500-m (5,000 ft.) altitude. 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 all standard equipment, 365/70R18 tires, ROPS cab, full fuel tank, and 79-kg (175 lb.) operator.

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