





DEERE

NO NONSENSE.

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The dependable, economical 644 G-Tier is all business. From stockpiling and truck or hopper loading, to short load-and-carry tasks and material handling, this mid-size wheel loader's got you covered. Its lower initial acquisition cost doesn't mean you have to sacrifice quality and support. The 644 G-Tier delivers the rugged reliability and ease of operation you expect from John Deere — a company with over a half-century of experience designing and manufacturing exceptional wheel loaders.



FEATURES

Proven design and reliability

The John Deere 644 G-Tier leverages components and technology featured in both our current and former series loaders for decades. Powertrain, hydraulic, and electrical systems are the culmination of thousands of hours of proven experience in the field.

Minimal maintenance and operating costs

Extended service intervals plus parts and fluid costs over 12,000 hours of usage are as much as 14-percent lower than the nearest competitor.*

Peace of mind

Renowned John Deere and dealer support, parts availability, and warranty help keep customers up and running.

*Based on manufacturer's required scheduled maintenance events through 12,000 hours of service as of August 2020. Calculated using August 2020 manufacturer's suggested list pricing for OEM parts and fluids in U.S. dollars. Labor costs not included.

FIND YOUR FIT



LEADING EDGE Premium edge with innovative technology



EXCEPTIONAL PERFORMANCE Advanced features and performance



RUGGED AND RELIABLE Proven capabilities and value



Streamlined servicing

All daily service points including fuel are conveniently grouped on the left side of the machine at ground level, for easy access. Hinged doors provide wide-open access to the engine, the cooling system, and other components. Cooling package is isolated from the engine compartment, so the fan pulls fresh air that is not preheated through the coolers.

Maximize jobsite versatility

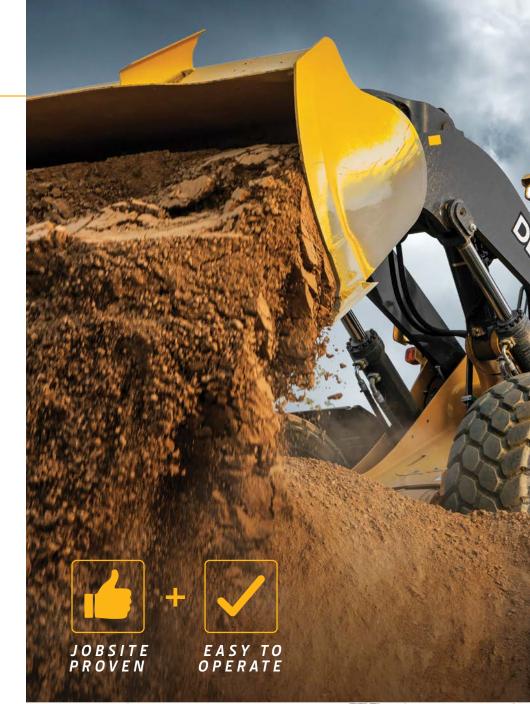
In addition to current P- and X-Tier options, the coupler accepts buckets and attachments dating to K-Series Loaders to help maximize machine utilization and fleet versatility.

Cab comfort

Roomy cab features ergonomically placed joystick controls, foot pedals, and sealed-switch module. Seatmounted right-hand joystick includes integrated F-N-R switch. Optional air-ride seat increases the level of operator comfort.

User-friendly control

The 644 G-Tier features common controls that will be familiar to both novice and experienced operators. Optional front-differential lock provides additional traction in muddy or loose-material conditions. Pilot controls are intuitive to operate. In-cab adjustable boom-height kickout and return to carry as well as return to dig can be easily activated from the convenient touchpad, speeding production in repetitive applications.





644 G-TIER WHEEL LOADER

Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center**[™]. The Operations Center also enables **John Deere Connected Support**[™], which uses data from thousands of connected machines to proactively address issues before they arise. Your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

*Availability varies by region and product. Options not available in every country.

Keep free of debris

Optional programmable fan automatically reverses at predetermined intervals to keep coolers clean throughout the day. Or run individual cleaning cycles through the monitor.

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644 G-TIER WHEEL LOADER SPECIFICATIONS



While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine	644 G Z-BAR TIER 2		644 G Z-BAR TIER 3		644 G Z-BAR FINAL	FIER 4 (FT4)
Manufacturer and Model	John Deere PowerTech"	* 6068H	John Deere PowerTec	h™ Plus 6068H	John Deere PowerTec	h™ PVS 6068H
Non-Road Emission Standard	EPA Tier 2/EU Stage II		EPA Tier 3/EU Stage I	IIA	EPA FT4/EU Stage V	
Cylinders	6		6		6	
Valves Per Cylinder	4		4		4	
Displacement	6.8 L (414 cu. in.)		6.8 L (414 cu. in.)		6.8 L (414 cu. in.)	
Net Peak Power (ISO 9249)	175 kW (235 hp) at 1,700) rpm	185 kW (248 hp) at 1,800 rpm		169 kW (227 hp) at 1,8	00 rpm
Net Peak Torque (ISO 9249)	1024 Nm (755 lbft.) at		1024 Nm (755 lbft.)		981 Nm (724 lbft.) a	
Net Torque Rise	55%	, F	42%		66%	· / · · F
Fuel System (electronically controlled)	High-pressure common	rail	High-pressure comm	on rail	High-pressure comm	on rail
Lubrication				er and integral cooler	Full-flow spin-on filte	
Aspiration				e air cooled	Turbocharged, charge	
Air Cleaner		Inder-hood, dual-element dry type, restric-			Under-hood, dual-ele	
An cleaner	tion indicator in cab mor		tion indicator in cab m		tion indicator in cab m	
Cooling	644 G Z-BAR TIER 2 / T					
Fan Drive	Hydraulically driven, pro		ad fap aft of coolars			
		Sportionally controll				
Electrical	644 G Z-BAR TIER 2		644 G Z-BAR TIER 3	- 14	644 G Z-BAR FT4	- 14 4
Electrical System	•		24 volt with 80-amp	aiternator	24 volt with 100-amp	alternator
Batteries (2 – 12 volt)	950 CCA (each)		950 CCA (each)		950 CCA (each)	
Transmission System		51 + C - W	a	61 × 6	a	51.1C
Туре	Countershaft-type Pow		Countershaft-type Po		Countershaft-type Po	
Torque Converter	Single stage, single pha		Single stage, single p		Single stage, single p	
Shift Control	Electronically modulate	d, adaptive, load	Electronically modula		Electronically modula	
	and speed dependent		and speed dependent		and speed dependent	
Operator Interface	Joystick-mounted F-N-R; Quick-Shift		Joystick-mounted F-N		Joystick-mounted F-N	
	button on hydraulic lever		button on hydraulic lever		button on hydraulic lever	
Shift Modes	Manual/auto (1st–D or)	2nd–D); Quick-Shift	button with 2 selectal	ole modes: kick-down (or kick-up/down; and 3 adjustable clutch	
	cutoff settings					
	4-Speed		4-Speed		4-Speed	
Maximum Travel Speeds (with 23.5 R 25 tires)	Forward R	Reverse	Forward	Reverse	Forward	Reverse
Range 1	7.1 km/h (4.4 mph) 7.	'.5 km/h (4.7 mph)	7.1 km/h (4.4 mph)	7.5 km/h (4.7 mph)	7.1 km/h (4.4 mph)	7.5 km/h (4.7 mph)
Range 2	11.8 km/h (7.3 mph) 12	2.5 km/h (7.7 mph)	11.8 km/h (7.3 mph)	12.5 km/h (7.7 mph)	11.8 km/h (7.3 mph)	12.5 km/h (7.7 mph)
Range 3	23.5 km/h (14.6 mph) 2	4.8 km/h (15.4 mph)	23.2 km/h (14.4 mph)	24.5 km/h (15.2 mph)	23.4 km/h (14.5 mph)	24.6 km/h (15.3 mp
Range 4	37.9 km/h (23.6 mph) N	J/A	38.7 km/h (24.0 mph)	N/A	37.6 km/h (23.3 mph)	N/A
Axles/Brakes	644 G Z-BAR TIER 2 / T	IER 3 / FT4				
Final Drives	Heavy-duty inboard-mo	ounted planetary				
Differentials	Open differential, locki					
Rear Axle Oscillation, Stop to Stop (with	26 deg. (13 deg. each di					
23.5 R 25 tires)						
Brakes (conform to ISO 3450)						
Brakes (conform to ISO 3450) Service	Hydraulically actuated	spring retracted, sel	f-adjusting, inboard si	in-snatt molinted, oil	cooled, single disc	
Service	Hydraulically actuated, Automatic spring applie					
Service Parking	Hydraulically actuated, Automatic spring applie					
Service Parking Tires/Wheels (see pages 9–10 for complete	Automatic spring applie		ased, driveline mounte		:	
Service Parking	Automatic spring applie	ed, hydraulically relea	ased, driveline mounte 644 G Z-BAR TIER 3	d, oil cooled, multi dis	644 G Z-BAR FT4	Width Over Tires
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width	ed, hydraulically relea	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width	d, oil cooled, multi dis Width Over Tires	644 G Z-BAR FT4 Tread Width	Width Over Tires
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2	ed, hydraulically relea Width Over Tires 1765 mm (108.9 in.)	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2	ed, hydraulically relea	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width	d, oil cooled, multi dis Width Over Tires	644 G Z-BAR FT4 Tread Width	
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	<mark>644 G Z-BAR FT4</mark> Tread Width N/A 2170 mm (85.4 in.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T T 300 L (79.3 gal.) N/A	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T N 300 L (79.3 gal.) N/A 300 L (31.7 qt.) X/A	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	644 G Z-BAR TIER 3 <i>Tread Width</i> 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T N 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 2 21 L (22.2 qt.) 2	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	300 L (79.3 gal.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	300 L (79.3 gal.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	300 L (79.3 gal.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	300 L (79.3 gal.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Diesel Exhaust Fluid (DEF) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.)	ed, hydraulically relea Width Over Tires 1765mm (108.9 in.) I/A	644 G Z-BAR TIER 3 <i>Tread Width</i> 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.)	d, oil cooled, multi dis Width Over Tires 2765 mm (108.9 in.)	644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.)	ed, hydraulically relea Vidth Over Tires 1765mm (108.9 in.) I/A TIER 3 / FT4	Ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	d, oil cooled, multi dis <i>Width Over Tires</i> 2765 mm (108.9 in.) N/A	644 G Z-BAR FT4 <i>Tread Width</i> N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width 2170 mm (85.4 in.) 2170 mm (85.4 in.) 2 N/A 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	ed, hydraulically relea Vidth Over Tires 1765mm (108.9 in.) I/A TIER 3 / FT4	Ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	d, oil cooled, multi dis <i>Width Over Tires</i> 2765 mm (108.9 in.) N/A	644 G Z-BAR FT4 <i>Tread Width</i> N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 3000 kPa	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width V 2170 mm (85.4 in.) 2 N/A N 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	ed, hydraulically relea Vidth Over Tires 1765mm (108.9 in.) I/A TIER 3 / FT4	Ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	d, oil cooled, multi dis <i>Width Over Tires</i> 2765 mm (108.9 in.) N/A	644 G Z-BAR FT4 <i>Tread Width</i> N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	N/A
Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23,5-25 TL, E3/L3, 16PR Bias Tire TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL Radial Tire Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System, Engine Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering)	Automatic spring applie 644 G Z-BAR TIER 2 Tread Width 2170 mm (85.4 in.) 2170 mm (85.4 in.) 2 N/A 644 G Z-BAR TIER 2 / T 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	ed, hydraulically relea Vidth Over Tires 1765mm (108.9 in.) I/A TIER 3 / FT4	Ased, driveline mounte 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	d, oil cooled, multi dis <i>Width Over Tires</i> 2765 mm (108.9 in.) N/A	644 G Z-BAR FT4 <i>Tread Width</i> N/A 2170 mm (85.4 in.) 300 L (79.3 gal.) 15.6 L (16.5 qt.) 34 L (35.9 qt.) 19.5 L (20.6 qt.) 30 L (31.7 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.)	N/A

644 G-TIER WHEEL LOADER SPECIFICATIONS





While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Hydraulic System/Steering (continued)	644 G Z-BAR TIER 2							
Loader Controls	2-function valve; joy		. 1					
	or fingertip controls	or fingertip controls (field kit); 644 G-TIER Z-BAR LOADER WITH PIN-OI						
	hydraulic-function enable/disable; entional 2rd function volve with							
	optional 3rd-function	n valve with		28				
	auxiliary lever		M See			Cab		
Steering (conforms to ISO 5010)		1						
Туре	Power, fully hydraulio			OF &	Y 1 Y L			
Articulation Angle	80-deg. arc (40 deg.	each direction)						
Turning Radius (measured to centerline of	5.55 m (18 ft. 3 in.)							
outside tire)		G						
Hydraulic Cycle Times		H				B		
Raise	5.2 sec.							
Dump	1.5 sec.							
Lower (power down)	3.2 sec.							
Total	9.9 sec.					'		
Bucket Capacity Range								
Bucket Type			K	D				
Pin-On	3.1-3.20 m ³ (4.0-4.25				E			
Coupler	3.1 m ³ (4.0 cu. yd.)	j,		F				
Dimensions and Specifications With Pin-On		Edge						
	644 G Z-Bar Tier 2		644 G Z-Bar Tier 3		644 G Z-Bar FT4			
Dimensions With Bucket With		3.20-m³ (4.25 cu. yd.)		3.20-m ³ (4.25 cu. yd.)		3.20-m³ (4.25 cu. ya		
Bolt-On Edge (illustration above right)	general-purpose	general-purpose	general-purpose	general-purpose	general-purpose	general-purpose		
Height to Top of Cab	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)		
B Hood Height	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)		
Ground Clearance	422 mm (16.6 in.)	422 mm (16.6 in.)	422 mm (16.6 in.)	422 mm (16.6 in.)	422 mm (16.6 in.)	422 mm (16.6 in.)		
Length From Centerline to Front Axle	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)		
Wheelbase	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)		
Overall Length, Bucket on Ground	8.08 m (26 ft. 6 in.)	8.17 m (26 ft. 10 in.)	8.08 m (26 ft. 6 in.)	8.17 m (26 ft. 10 in.)	8.08 m (26 ft. 6 in.)	8.17 m (26 ft. 10 in.		
		4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)		4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)		
5 5 7	4.13 m (13 ft. 7 in.)			4.13 m (13 ft. 7 in.)				
Dump Clearance, 45 deg., Full Height	2.98 m (9 ft. 9 in.)	2.92 m (9 ft. 7 in.)	2.98 m (9 ft. 9 in.)	2.92 m (9 ft. 7 in.)	2.98 m (9 ft. 9 in.)	2.92 m (9 ft. 7 in.)		
Reach, 45-deg. Dump, Full Height	1.01 m (3 ft. 4 in.)	1.06 m (3 ft. 6 in.)	1.01 m (3 ft. 4 in.)	1.06 m (3 ft. 6 in.)	1.01 m (3 ft. 4 in.)	1.06 m (3 ft. 6 in.)		
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.63 m (5 ft. 4 in.)	1.65 m (5 ft. 5 in.)	1.63 m (5 ft. 4 in.)	1.65 m (5 ft. 5 in.)	1.63 m (5 ft. 4 in.)	1.65 m (5 ft. 5 in.)		
K Maximum Digging Depth	99 mm (3.9 in.)	108 mm (4.3 in.)	99 mm (3.9 in.)	108 mm (4.3 in.)	99 mm (3.9 in.)	108 mm (4.3 in.)		
Maximum Rollback at Ground Level	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.		
Maximum Rollback, Boom Fully Raised	55.0 deg.	55.0 deg.	55.0 deg.	55.0 deg.	55.0 deg.	55.0 deg.		
Maximum Bucket Dump Angle, Fully Raised		50.0 deg.	50.0 deg.	50.0 deg.	50.0 deg.	50.0 deg.		
Loader Clearance Circle, Bucket Carry Position		13.21 m (43 ft. 4 in.)	13.05 m (42 ft. 10 in.)	13.21 m (43 ft. 4 in.)	13.05 m (42 ft. 10 in.)	13.21 m (43 ft. 4 in.		
Specifications With Bucket With Bolt-On Edg								
Capacity, Heaped	3.10 m ³	3.20 m ³	3.10 m ³	3.20 m ³	3.10 m ³	3.20 m ³		
	(4.00 cu. yd.)	(4.25 cu. yd.)	(4.00 cu. yd.)	(4.25 cu. yd.)	(4.00 cu. yd.)	(4.25 cu. yd.)		
Capacity, Struck	2.65 m ³	2.80 m ³	2.65 m ³	2.80 m ³	2.65 m ³	2.80 m ³		
	(3.47 cu. yd.)	(3.67 cu. yd.)	(3.47 cu. yd.)	(3.67 cu. yd.)	(3.47 cu. yd.)	(3.67 cu. yd.)		
Bucket Weight With Bolt-On Cutting Edge	1466 kg (3,232 lb.)	1736 kg (3,827 lb.)	1466 kg (3,232 lb.)	1736 kg (3,827 lb.)	1466 kg (3,232 lb.)	1736 kg (3,827 lb.)		
Bucket Width	2.94 m (9 ft. 8 in.)	3.04 m (10 ft. 0 in.)	2.94 m (9 ft. 8 in.)	3.04 m (10 ft. 0 in.)	2.94 m (9 ft. 8 in.)	3.04 m (10 ft. 0 in.)		
Breakout Force	14 462 kg (31,883 lb.)	13 502 kg (29,767 lb.)	14 462 kg (31,883 lb.)	13 502 kg (29,767 lb.)		13 502 kg (29,767 lb		
Tipping Load, Straight, No Tire Deflection				13 798 kg (30,419 lb.)	15 430 kg (34,017 lb.)			
Tipping Load, Straight, With Tire Deflection					14 523 kg (32,018 lb.)			
Tipping Load, 40-deg. Full Turn, No Tire Deflection	12 278 kg (27,068 lb.)	J .	12 328 kg (27,178 lb.)			12 906 kg (28,453 lb		
Tipping Load, 40-deg. Full Turn, With Tire Deflection	11 220 kg (24,736 lb.)	10 818 kg (23,850 lb.)	11 262 kg (24,828 lb.)	10 860 kg (23,942 lb.)	12 102 kg (26,680 lb.)	11 691 kg (25,774 lb.		



While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

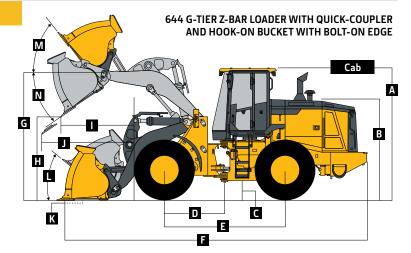
Dimensions and Specifications With Pin-On							
Bucket With Bolt-On Edge (continued)	644 G Z-BAR TIER 2		644 G Z-BAR TIER 3		644 G Z-BAR FINAL TIER (FT4)		
Specifications With Bucket With	3.10-m³ (4.00 cu. yd.)	3.20-m³ (4.25 cu. yd.)	3.10-m³ (4.00 cu. yd.)	3.20-m³ (4.25 cu. yd.)	3.10-m³ (4.00 cu. yd.)	3.20-m³ (4.25 cu. yd.)	
Bolt-On Edge (continued)	general-purpose	general-purpose	general-purpose	general-purpose	general-purpose	general-purpose	
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	6139 kg (13,534 lb.)	5924.5 kg (13,061 lb.)	6164 kg (13,589 lb.)	5949 kg (13,115 lb.)	6673.5 kg (14,712 lb.)	6453 kg (14,226 lb.)	
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	5610 kg (12,368 lb.)	5409 kg (11,925 lb.)	5631 kg (12,414 lb.)	5430 kg (11,971 lb.)	6051 kg (13,340 lb.)	5845.5 kg (12,887 lb.)	

 Operating Weight
 17 009 kg (37,498 lb.)
 17 279 kg (38,093 lb.)
 17 044 kg (37,575 lb.)
 17 314 kg (38,170 lb.)
 17 934 kg (39,537 lb.)
 18 205 kg (40,135 lb.)

 Loader operating information is based on machine with identified linkage and standard equipment, John Deere PowerTech 6068H/PowerTech Plus 6068H/PowerTech PVS
 6068H engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5.

 *Rated operating capacity based on Deere attachments only.
 17

Dimensions and Specifications With Hi-Vis Coupler and Hook-On Bucket With Bolt-On Edge

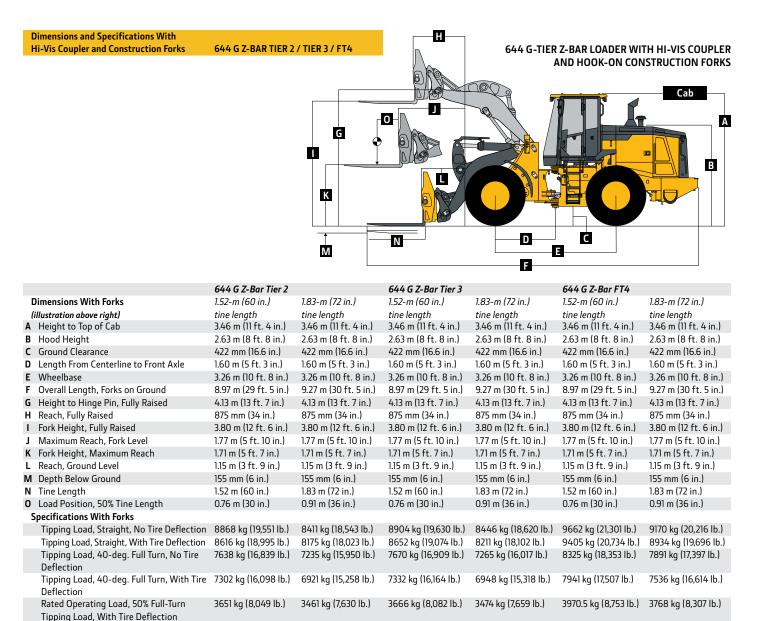


	644 G Z-Bar Tier 2	644 G Z-Bar Tier 3	644 G Z-Bar FT4
Dimensions With Bucket With			
Bolt-On Edge (illustration above right)	3.10-m³ (4.00 cu. yd.) general-purpose	3.10-m ³ (4.00 cu. yd.) general-purpose	3.10-m³ (4.00 cu. yd.) general-purpos
A Height to Top of Cab	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)
B Hood Height	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)	2.63 m (8 ft. 8 in.)
C Ground Clearance	422 mm (16.6 in.)	422 mm (16.6 in.)	422 mm (16.6 in.)
D Length From Centerline to Front Axle	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)
E Wheelbase	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)
F Overall Length, Bucket on Ground	8.29 m (27 ft. 2 in.)	8.29 m (27 ft. 2 in.)	8.29 m (27 ft. 2 in.)
G Height to Hinge Pin, Fully Raised	4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)
H Dump Clearance, 45 deg., Full Height	2.83 m (9 ft. 3 in.)	2.83 m (9 ft. 3 in.)	2.83 m (9 ft. 3 in.)
Reach, 45-deg. Dump, Full Height	1.13 m (3 ft. 8 in.)	1.13 m (3 ft. 8 in.)	1.13 m (3 ft. 8 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.67 m (5 ft. 6 in.)	1.67 m (5 ft. 6 in.)	1.67 m (5 ft. 6 in.)
K Maximum Digging Depth	129 mm (5 in.)	129 mm (5 in.)	129 mm (5 in.)
L Maximum Rollback at Ground Level	41 deg.	41 deg.	41 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	55 deg.	55 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	50 deg.
Loader Clearance Circle, Bucket Carry Position	13.26 m (43 ft. 6 in.)	13.26 m (43 ft. 6 in.)	13.26 m (43 ft. 6 in.)
Specifications With Bucket With Bolt-On Edge			
Capacity, Heaped	3.10 m ³ (4.00 cu. yd.)	3.10 m ³ (4.00 cu. yd.)	3.10 m³ (4.00 cu. yd.)
Capacity, Struck	2.50 m ³ (3.27 cu. yd.)	2.50 m ³ (3.27 cu. yd.)	2.50 m ³ (3.27 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	2223 kg (4,901 lb.)	2223 kg (4,901 lb.)	2223 kg (4,901 lb.)
Bucket Width	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)
Breakout Force	12 285 kg (27,084 lb.)	12 285 kg (27,084 lb.)	12 285 kg (27,084 lb.)
Tipping Load, Straight, No Tire Deflection	12 461 kg (27,472 lb.)	12 514 kg (27,589 lb.)	13 611 kg (30,007 lb.)
Tipping Load, Straight, With Tire Deflection	11 718 kg (25,834 lb.)	11 766 kg (25,940 lb.)	12 813 kg (28,248 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	10 680 kg (23,545 lb.)	10 726 kg (23,647 lb.)	11 674 kg (25,737 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	9735 kg (21,462 lb.)	9774 kg (21,548 lb.)	10 566 kg (23,294 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load,	5340 kg (11,773 lb.)	5363 kg (11,823 lb.)	5837 kg (12,868 lb.)
No Tire Deflection (conforms to ISO 14397-1)*	5	5	5
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	4867.5 kg (10,731 lb.)	4887 kg (10,774 lb.)	5283 kg (11,647 lb.)
Operating Weight	17 766 kg (39,167 lb.)	17 801 kg (39,244 lb.)	18 692 kg (41,209 lb.)
Loader operating information is based on machine wit			

Loader operating information is based on machine with identified linkage and standard equipment, John Deere PowerTech™ 6068H/PowerTech Plus 6068H/PowerTech PVS 6068H engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5. *Rated operating capacity based on Deere attachments only.

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644 G-TIER



*Rated operating capacity based on Deere attachments only. 644 G Z-BAR TIER 2 Adjustments to Operating Weights and Tipping Loads With Buckets

4381 kg (9,658 lb.)

(conforms to ISO 14397-1 and SAE J1197)* Rated Operating Load, Rough Terrain,

Ground, 80% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*

Operating Weight

60% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)* Rated Operating Load, Firm and Level

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.25-m³ (4.25 cu. yd.) high-performance bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator* Add (+) or deduct (-) kg (lb.) as indicated Tipping Load, Tipping Load, Vertical Height for loaders with 3-piece rims 40-deg. Full Turn Tread Width Width Over Tires Operating Weight Straight 0 kg (0 lb.) 0 kg (0 lb.) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire 0 kg (0 lb.) 0 mm (0 in.) 0 mm (0 in.) 0 mm (0 in.) al i 23 5 R25, 2 Star TUI 300 (F3/L3), TL $\pm 406 \text{ kg}(\pm 895 \text{ lb})$ + 308 kg (+ 679 lb) + 271 kg (+ 597 lb)0 ----- (0 :--) $-20 \text{ mm} (\pm 0.8 \text{ in})$ + 7 mm (+ 0 2 in)

Loader operating information is based on machine with identified linkage and standard equipment, John Deere PowerTech 6068H/PowerTech Plus 6068H/PowerTech PVS 6068H engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This

4399 kg (9,698 lb.)

4169 kg (9,191 lb.)

17 231 kg (37,988 lb.) 17 291 kg (38,120 lb.) 17 266 kg (38,065 lb.) 17 326 kg (38,197 lb.) 18 157 kg (40,029 lb.) 18 217 kg (40,162 lb.)

4765 kg (10,505 lb.)

5866 kg (12,932 lb.) 5558 kg (12,253 lb.) 6353 kg (14,006 lb.) 6029 kg (13,292 lb.)

4522 kg (9,969 lb.)

4153 kg (9,156 lb.)

information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5.

5842 kg (12,879 lb.) 5537 kg (12,207 lb.)

	· +00 kg (· 055 lb.)	· 500 kg (· 075 lb.)	· 2/1 kg (· 55/10.)	0 11111 (0 111.)	· 20 mm (· 0.0 m.)	· / mm(· 0.5 m.)	
Radial Tire							
Maxam 23.5 R 25, 2 Star L-3 Radial Tire	+ 445 kg (+ 981 lb.)	+ 339 kg (+ 747 lb.)	+ 299 kg (+ 659 lb.)	0 mm (0 in.)	+ 92 mm (+ 3.6 in.)	– 43 mm (– 1.7 in.)	
Maxam 23.5 R 25, 2 Star L-2 Radial Tire	+ 453 kg (+ 999 lb.)	+ 345 kg (+ 761 lb.)	+ 304 kg (+ 670 lb.)	0 mm (0 in.)	+ 93 mm (+ 3.7 in.)	– 43 mm (– 1.7 in.)	
*Man	t-t-t-t						

*May change based on vehicle configuration, weight, or tire-pressure adjustments.

644 G Z-BAR TIER 3 Adjustments to Operating Weights and Tipping Loads With Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.25-m³ (4.25 cu. yd.) high-performance bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

Add (+) or deduct (–) kg (lb.) as indicated	Tipping Load,	Tipping Load,				
for loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL	+ 406 kg (+ 895 lb.)	+ 309 kg (+ 681 lb.)	+ 272 kg (+ 600 lb.)	0 mm (0 in.)	+ 20 mm (+ 0.8 in.)	+ 7 mm (+ 0.3 in.)
Radial Tire						
Maxam 23.5 R 25, 2 Star L-3 Radial Tire	+ 445 kg (+ 981 lb.)	+ 339 kg (+ 747 lb.)	+ 299 kg (+ 659 lb.)	0 mm (0 in.)	+ 92 mm (+ 3.6 in.)	– 43 mm (– 1.7 in.)
Maxam 23.5 R 25, 2 Star L-2 Radial Tire	+ 453 kg (+ 999 lb.)	+ 345 kg (+ 761 lb.)	+ 304 kg (+ 670 lb.)	0 mm (0 in.)	+ 93 mm (+ 3.7 in.)	– 43 mm (– 1.7 in.)
*May change based on vehicle configuratio	n, weight, or tire-press	ure adjustments.				

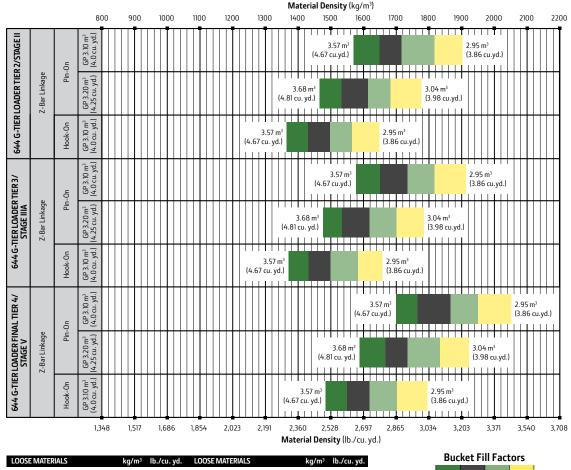
644 G Z-BAR FT4 Adjustments to Operating Weights and Tipping Loads With Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.25-m³ (4.25 cu. yd.) high-performance bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

nor 5 cub, rear cuse bumper, counter weigh	ng (175 ibi) operator						
Add (+) or deduct (–) kg (lb.) as indicated		Tipping Load,	Tipping Load,				
for loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	40-deg. Full Turn Tread Width Width Over Tire			
Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire	N/A	N/A	N/A	N/A	N/A	N/A	
TianLi 23.5 R25, 2 Star TUL300 (E3/L3), TL	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)	
Radial Tire							
Maxam 23.5 R 25, 2 Star L-3 Radial Tire	+ 40 kg (+ 88 lb.)	+ 30 kg (+ 66 lb.)	+ 27 kg (+ 60 lb.)	0 mm (0 in.)	+ 17 mm (+ 0.7 in.)	– 28 mm (– 1.1 in.)	
Maxam 23.5 R 25, 2 Star L-2 Radial Tire	+ 48 kg (+ 106 lb.)	+ 36 kg (+ 79 lb.)	+ 32 kg (+ 71 lb.)	0 mm (0 in.)	+ 18 mm (+ 0.7 in.)	– 28 mm (– 1.1 in.)	
*May change based on vehicle configuration	n, weight, or tire-press	ure adjustments.					

Bucket Selection Guides*

Key: General-Purpose (GP)



115% 110% 105% 100% 95%

	Kg/III	ib./cu. yu.	LOOSE MIAI ERIALS	Kg/III	10./ cu. yc
	200	100		1570	2010
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	1009	1,701	Sand, dry	1762	2,970
Clay, excavated in water	1282	2,160	Sand, voids, full of water	2083	3,510
Coal, anthracite, broken, loose	865	1,458	Sandstone, quarried	1314	2,214
Coal, bituminous, moderately wet	801	1,350	Shale, broken crushed	1362	2,295
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955	3,294
Earth, mud, packed	1843	3,105	Stone or gravel, 37.5 to 87.5-mm		
Granite, broken	1538	2,592	(1.5 to 3.5") size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (0.75") size	1602	2,700

Additional equipment

Key: ● Standard ▲ Optional or special
 See your John Deere dealer for further information.

644 G Engine

- Wet-sleeve cylinder liners
- Programmable auto-idle and auto shutdown
- Starter excessive-cranking protection
- Automatic engine cool-down timer
- Automatic derating for exceeded system
- temperaturesSerpentine drive belt for automatic tensioner
- Electrical fuel-priming pump
- Dual-stage fuel filter and water separator
- 500-hour vertical spin-on oil filter
- Automatic glow plugs for cold start
- ▲ Engine-block heater (recommended for cold starts below –23 deg. C [–10 deg. F])
- Centrifugal engine air pre-cleaner
- Powertrain
- Clutch cutoff with 3 operator settings: Level ground, small slope, or steep slope
- Clutch calibration engaged from monitor
- 2,000-hour vertical spin-on transmission filter
- Transmission fill tube and sight gauge
- Transmission diagnostic ports
- 4-speed transmission with non-lockup torque converter
- ▲ Front locking differential
- Brake retractors and adjusters

Cooling System

- Isolated from engine compartment
- Engine radiator
- Engine oil cooler
- Hydraulic oil cooler (oil to air)
- Transmission oil cooler (oil to air)
- Charge air cooler (air to air)
- Fuel cooler
- Coolant recovery tank
- Antifreeze, -47 deg. C (-52 deg. F)
- Cool-on-demand, hydraulically driven fan
- Enclosed fan safety guard
- ▲ Automatic reversing fan drive

Hydraulics

- Pilot hydraulic controls
- Automatic return-to-dig bucket positioner
 In-cab adjustable automatic boom-height
- kickout/return to carry
- Reservoir with sight gauge and fill strainer
- Hydraulic diagnostic ports
- 4,000-hour in-tank filter
- 2 function joystick with F-N-R
- ▲ 2 function 2-lever fingertip controls and steering column F-N-R
- ▲ 3 function joystick with F-N-R and 3rdfunction auxiliary lever

644 G Hydraulics (continued)

- Ride control, automatic with monitoradjustable speed settings
- ▲ Hydraulic control system for quick-coupler locking pins
- ▲ Hydrau[™] XR cold-temperature hydraulic fluid recommended below –25 deg. C (–13 deg. F) Steering Systems
- Conventional steering wheel with spinner knob
 Secondary steering

Electrical

- Solid-state electrical power-distribution system
- Lockable master electrical-disconnect switch
- Battery-terminal safety covers
- By-pass start safety cover at starter
- Pre-wired for beacon/strobe light
- ▲ Rotary beacon
- Lights: Halogen driving lights (2) / Front (2) and rear cab (2) / Halogen front turn signals and flashers / LED stop- and taillights
- ▲ Halogen rear grille work lights (2)
- Horn, electric
- Reverse warning alarm
- Multifunction/multi-language 127-mm (5 in.) LCD color monitor includes: Digital instruments

 Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, diesel exhaust fluid (DEF) level, speedometer, odometer, and average fuel consumption)
- Indicator lights: Standard and selected options / Amber caution and red stop
- Operator-warning messages
- Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
- Radio ready
- ▲ AM/FM radio
- 24- to 12-volt, 15-amp converter and cab power port

Operator's Station

- Cab with air conditioning/heater (ROPS/FOPS Level 2, isolation mounted)
- Keyless start with multiple security modes
- Sealed-switch module with function indicators
- Seat with headrest extension, fabric cover, and adjustable mechanical suspension
- Seat with headrest extension, fabric cover, and adjustable air suspension

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries. Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249.

No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Specifications with the exception of bucket capacity are in accordance with all applicable ISO standards. Except where otherwise noted, these specifications are based on a unit with applicable linkage and standard equipment, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator.

644 G Operator's Station (continued)

- High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
- Cup holder
- Coat hook
- Dome and reading light
- Rubber floor mat
- Tilt steering column
- Operator's manual storage compartment
- Outside (2) and inside (1) rearview mirrors
- ▲ Heated outside mirrors with convex lens
- Left-side operator-station access
- Slip-resistant steps and ergonomic handholds
- Pull-down front sun visor
- Front and rear intermittent windshield wipers and washers
- Rearview camera
- ▲ Fire extinguisher bracket
- Loader Linkage
- Z-Bar loader linkage
- Buckets and Attachments
- Full line of Deere pin-on buckets, coupler buckets, and forks
- Hi-Vis hydraulic coupler that accepts Europattern attachments (ISO)

Overall Vehicle

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▲

 JDLink[™] wireless communication system (available in specific countries; see your dealer for details)

Loader boom service locking bar

with rubber-cushion stops on frame

Rear counterweight with hitch and locking pin

40-deg. steering articulation to each side

Vandal protection with lockable engine

and filler access for radiator/fuel/DEF/

Left-side service steps and handholds

Right-side service steps and handrails

Same-side ground-level daily servicing

Transmission side-frame and bottom guards

23.5R25 radial tires on 3-piece rims

23.5-25 bias tires on 3-piece rims

Fenders, front and rear full width

License-plate bracket and light

enclosures, counterweight compartments,

• Front and rear tie-downs

Articulation locking bar

hydraulic transmission

Fuel-tank fill strainer

Fenders, front narrow

Lift eyes

Ground-level fuel and DEF fill

