

JOHN DEERE

Wheel Loader



DEERE

# NO NONSENSE.

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

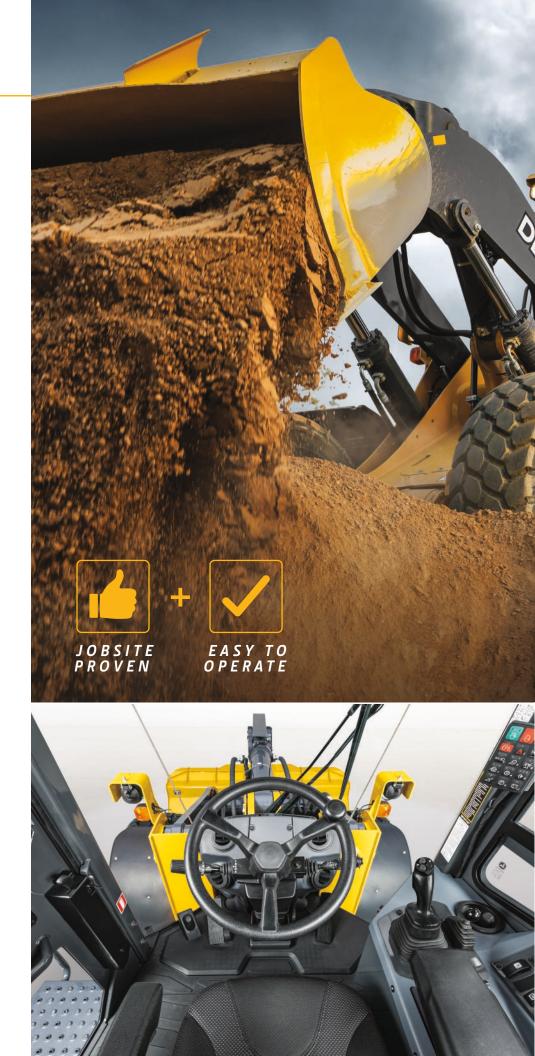
In addition to current P- and X-tier options, the coupler accepts buckets and attachments dating to K-Series Loaders to help maximize machine utilization and fleet versatility.

#### 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 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.

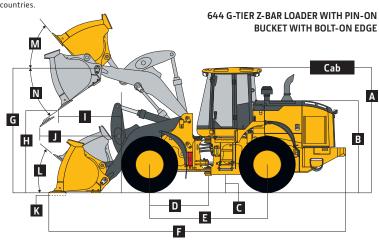
| Engine   | 644 G Z-BAR TIER 2  |   | 644 G Z-BAR TIER 3  |   | 644 G Z-BAR FINAL 1  | ΓΙΕR 4 (FT4)          |  |
|--|---|---|---|---|--|-----------------------|--|
| Manufacturer and Model   | John Deere PowerTech™   | 6068H   | John Deere PowerTec   | h™ Plus 6068H   | John Deere PowerTech™ PVS 6068H  |                       |  |
| 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 1,8  | 300 rpm   | 169 kW (227 hp) at 1,8   | 00 rpm                |  |
| Net Peak Torque (ISO 9249)   | 1024 Nm (755 lbft.) at 1  | 1,400 rpm   | 1024 Nm (755 lbft.)   | at 1,400 rpm  | 981 Nm (724 lbft.) a   | t 1,400 rpm           |  |
| Net Torque Rise  | 55%   |   | 42%   |   | 66%  |                       |  |
| Fuel System (electronically controlled)  | High-pressure common  | rail  | High-pressure commo   | on rail   | High-pressure commo  | on rail               |  |
| Lubrication  | Full-flow spin-on filter a  | ind integral cooler   | Full-flow spin-on filte   | er and integral cooler  | Full-flow spin-on filte  | er and integral coole |  |
| Aspiration   | Turbocharged, charge ai   | r cooled  | Turbocharged, charge  | e air cooled  | Turbocharged, charge   | air cooled            |  |
| Air Cleaner  | Under-hood, dual-eleme  | nt dry type, restric-   | Under-hood, dual-ele  | ment dry type, restric-   | Under-hood, dual-elei  | ment dry type, restr  |  |
|  | tion indicator in cab mon   | itor for service  | tion indicator in cab m   | nonitor for service   | tion indicator in cab m  | onitor for service    |  |
| Cooling  | 644 G Z-BAR TIER 2 / TI   | IER 3 / FT4   |   |   |  |                       |  |
| Fan Drive  | Hydraulically driven, pro   | portionally controll  | ed, fan aft of coolers  |   |  |                       |  |
| Electrical   | 644 G Z-BAR TIER 2  |   | 644 G Z-BAR TIER 3  |   | 644 G Z-BAR FT4  |                       |  |
| Electrical System  | 24 volt with 80-amp alte  | ernator   | 24 volt with 80-amp   | alternator  | 24 volt with 100-amp   | alternator            |  |
| Batteries (2 – 12 volt)  | 950 CCA (each)  |   | 950 CCA (each)  |   | 950 CCA (each)   |                       |  |
| Transmission System  |   |   |   |   |  |                       |  |
| Type   | Countershaft-type Powe  | erShift™  | Countershaft-type Po  | owerShift   | Countershaft-type Po   | owerShift             |  |
| Torque Converter   | Single stage, single phas   |   | Single stage, single p  |   | Single stage, single pl  |                       |  |
| Shift Control  | Electronically modulated  |   | Electronically modula   |   | Electronically modula  |                       |  |
|  | and speed dependent   |   | and speed dependent   |   | and speed dependent  |                       |  |
| Operator Interface   | Joystick-mounted F-N-R  | R: Quick-Shift  | Joystick-mounted F-N  |   | Joystick-mounted F-N   |                       |  |
| 1  | button on hydraulic leve  |   | button on hydraulic le  |   | button on hydraulic le   |                       |  |
| Shift Modes  |   |   |   |   | vn or kick-up/down; and 3 adjustable clut  |                       |  |
|  | cutoff settings   |   |   |   | ,  | ,                     |  |
|  | 4-Speed   |   | 4-Speed   |   | 4-Speed  |                       |  |
| Maximum Travel Speeds (with 23.5 R 25 tires)   |   | everse  | Forward   | Reverse   | Forward  | Reverse               |  |
| Range 1  |   | 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  |   | .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) 24   |   |   |   |  |                       |  |
| Range 4  | 37.9 km/h (23.6 mph) N  |   | 38.7 km/h (24.0 mph)  |   | 37.6 km/h (23.3 mph)   |                       |  |
| Axles/Brakes   | 644 G Z-BAR TIER 2 / TI   |   | 30.7 Km7 m (2 1.0 mpm)  | 1071  | 37.0 Km/11 (23.3 mpm)  | 14//1                 |  |
| Final Drives   | Heavy-duty inboard-mo   |   |   |   |  |                       |  |
|  | Open differential, lockin   |   |   |   |  |                       |  |
| Differentials  |   | g mome operama.   |   |   |  |                       |  |
| Differentials Rear Axle Oscillation Stop to Stop (with   | 26 deg (13 deg each dir   | ection)   |   |   |  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with  | 26 deg. (13 deg. each dir   | ection)   |   |   |  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires)   | 26 deg. (13 deg. each dir   | ection)   |   |   |  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with<br>23.5 R 25 tires)<br>Brakes (conform to ISO 3450)  |   |   | f-adjusting inhoard s   | un-shaft mounted oil  | rooled single disc   |                       |  |
| Rear Axle Oscillation, Stop to Stop (with<br>23.5 R 25 tires)<br>Brakes (conform to ISO 3450)<br>Service   | Hydraulically actuated, s   | spring retracted, sel   |   |   |  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with<br>23.5 R 25 tires)<br>Brakes (conform to ISO 3450)<br>Service<br>Parking  |   | spring retracted, sel   |   |   |  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see pages 9–10 for complete  | Hydraulically actuated, s<br>Automatic spring applied   | spring retracted, sel   | ased, driveline mounte  |   | c  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with<br>23.5 R 25 tires)<br>Brakes (conform to ISO 3450)<br>Service<br>Parking  | Hydraulically actuated, s<br>Automatic spring applied   | spring retracted, sel   |   |   |  | Width Over Tires      |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments)  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width  | spring retracted, sel<br>d, hydraulically relea<br>didth Over Tires                             | 644 G Z-BAR TIER 3 Tread Width  | d, oil cooled, multi disc<br>Width Over Tires                               | 644 G Z-BAR FT4 Tread Width  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see pages 9–10 for complete tire adjustments) Linglong 23.5-25 TL, E3/L3, 16PR Bias Tire   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)       | ased, driveline mounte  644 G Z-BAR TIER 3  Tread Width  2170 mm (85.4 in.)                             | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 644 G Z-BAR FT4 Tread Width N/A  | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)       | 644 G Z-BAR TIER 3 Tread Width  | d, oil cooled, multi disc<br>Width Over Tires                               | 644 G Z-BAR FT4 Tread Width  |                       |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | ased, driveline mounte  644 G Z-BAR TIER 3  Tread Width  2170 mm (85.4 in.)                             | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 644 G Z-BAR FT4 Tread Width N/A  | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | ased, driveline mounte  644 G Z-BAR TIER 3  Tread Width  2170 mm (85.4 in.)                             | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 644 G Z-BAR FT4 Tread Width N/A  | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | ased, driveline mounte<br>644 G Z-BAR TIER 3<br>Tread Width<br>2170 mm (85.4 in.)<br>N/A                | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.)   | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 644 G Z-BAR TIER 3 Tread Width 2170 mm (85.4 in.) N/A 300 L (79.3 gal.)                                 | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 644 G Z-BAR FT4 Tread Width N/A 2170 mm (85.4 in.)   | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A  | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/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 disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)  | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 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.)             | d, oil cooled, multi disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)  | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 30 L (31.7 qt.) 21 L (22.2 qt.)   | d, oil cooled, multi disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)                                  | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)        | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)  | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)  | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)                                  | d, oil cooled, multi disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)   | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.)                | d, oil cooled, multi disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)  | spring retracted, sel<br>d, hydraulically relea<br>fidth Over Tires<br>765 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21 L (22.2 qt.) 25 L (26.4 qt.)                                  | d, oil cooled, multi disa<br>Width Over Tires<br>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                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)  | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                              | spring retracted, sel<br>d, hydraulically relea<br>lidth Over Tires<br>165 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.) | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)<br>N/A | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                 | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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)   | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                              | spring retracted, sel<br>d, hydraulically relea<br>lidth Over Tires<br>165 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.) | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)<br>N/A | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                 | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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                          | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                              | spring retracted, sel<br>d, hydraulically relea<br>lidth Over Tires<br>165 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.) | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)<br>N/A | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                 | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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 (435 psi) and 2,250 rpm | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)<br>Variable-displacement, a<br>330 L/m (87 gpm) | spring retracted, sel<br>d, hydraulically relea<br>lidth Over Tires<br>165 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.) | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)<br>N/A | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                 | N/A                   |  |
| Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) 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                          | Hydraulically actuated, s<br>Automatic spring applied<br>644 G Z-BAR TIER 2<br>Tread Width W<br>2170 mm (85.4 in.) 27<br>N/A N.<br>644 G Z-BAR TIER 2 / TI<br>300 L (79.3 gal.)<br>N/A<br>30 L (31.7 qt.)<br>21 L (22.2 qt.)<br>25 L (26.4 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                              | spring retracted, sel<br>d, hydraulically relea<br>lidth Over Tires<br>165 mm (108.9 in.)<br>/A | 300 L (79.3 gal.) N/A 300 L (31.7 qt.) 21L (22.2 qt.) 25 L (26.4 qt.) 100 L (26.4 gal.) 0.65 L (22 oz.) | d, oil cooled, multi disa<br>Width Over Tires<br>2765 mm (108.9 in.)<br>N/A | 300 L (79.3 gal.)<br>15.6 L (16.5 qt.)<br>34 L (35.9 qt.)<br>19.5 L (20.6 qt.)<br>30 L (31.7 qt.)<br>25 L (26.4 qt.)<br>100 L (26.4 gal.)<br>0.65 L (22 oz.)                 | N/A                   |  |

#### 644 G-TIER WHEEL LOADER SPECIFICATIONS

G

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 / TIER 3 / FT4   |
|---|---|
| Loader Controls   | 2-function valve; joystick control<br>or fingertip controls (field kit);<br>hydraulic-function enable/disable;<br>optional 3rd-function valve with<br>auxiliary lever |
| Steering (conforms to ISO 5010)                         |   |
| Туре  | Power, fully hydraulic  |
| Articulation Angle                                      | 80-deg. arc (40 deg. each direction)  |
| Turning Radius (measured to centerline of outside tire) | 5.55 m (18 ft. 3 in.)   |
| Hydraulic Cycle Times                                   |   |
| Raise   | 5.2 sec.  |
| Dump  | 1.5 sec.  |
| Lower (power down)                                      | 3.2 sec.  |
| Total   | 9.9 sec.  |
| Bucket Capacity Range                                   |   |
| Bucket Type   |   |
| Pin-On  | 3.1–3.20 m³ (4.0–4.25 cu. yd.)  |
| Coupler   | 3.1 m <sup>3</sup> (4.0 cu. yd.)  |

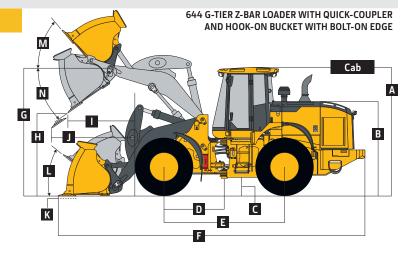


| Dimensions and Specifications With Pin-On Bucket With Bolt-On Edge |                         |                        |                         |                        |                         |                        |  |
|--|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|--|
|  | 644 G Z-Bar Tier 2      |                        | 644 G Z-Bar Tier 3      |                        | 644 G Z-Bar FT4         |                        |  |
| Dimensions With Bucket With  | 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 (illustration above right)                            | general-purpose         | general-purpose        | general-purpose         | general-purpose        | general-purpose         | general-purpose        |  |
| 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.)   | 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.)   |  |
| C 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.)      |  |
| <b>D</b> 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.)   |  |
| <b>E</b> 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.)  |  |
| F 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.) |  |
| <b>G</b> 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.)   | 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                             | 2.98 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.)   |  |
| I 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.)   |  |
| J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.)<br>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.)       |  |
| L Maximum Rollback at Ground Level                                 | 40.5 deg.               | 40.5 deg.              | 40.5 deg.               | 40.5 deg.              | 40.5 deg.               | 40.5 deg.              |  |
| M Maximum Rollback, Boom Fully Raised                              | 55.0 deg.               | 55.0 deg.              | 55.0 deg.               | 55.0 deg.              | 55.0 deg.               | 55.0 deg.              |  |
| N Maximum Bucket Dump Angle, Fully Raised                          | 50.0 deg.               | 50.0 deg.              | 50.0 deg.               | 50.0 deg.              | 50.0 deg.               | 50.0 deg.              |  |
| Loader Clearance Circle, Bucket Carry Position                     | 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.) | 13.05 m (42 ft. 10 in.) | 13.21 m (43 ft. 4 in.) |  |
| Specifications With Bucket With Bolt-On Edge                       |                         |                        |                         |                        |                         |                        |  |
| Capacity, Heaped   | 3.10 m <sup>3</sup>     | 3.20 m <sup>3</sup>    | 3.10 m <sup>3</sup>     | 3.20 m <sup>3</sup>    | 3.10 m <sup>3</sup>     | 3.20 m <sup>3</sup>    |  |
|  | (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 <sup>3</sup>     | 2.80 m <sup>3</sup>    | 2.65 m <sup>3</sup>     | 2.80 m <sup>3</sup>    | 2.65 m <sup>3</sup>     | 2.80 m <sup>3</sup>    |  |
|  | (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<br>(3,232 lb.)  | 1736 kg<br>(3,827 lb.) | 1466 kg<br>(3,232 lb.)  | 1736 kg<br>(3,827 lb.) | 1466 kg<br>(3,232 lb.)  | 1736 kg<br>(3,827 lb.) |  |
| Bucket Width   | 2.94 m                  | 3.04 m                 | 2.94 m                  | 3.04 m                 | 2.94 m                  | 3.04 m                 |  |
|  | (9 ft. 8 in.)           | (10 ft. 0 in.)         | (9 ft. 8 in.)           | (10 ft. 0 in.)         | (9 ft. 8 in.)           | (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.) | 14 462 kg (31,883 lb.)  | 13 502 kg (29,767 lb.) |  |
| Tipping Load, Straight, No Tire Deflection                         | 14 194 kg (31,292 lb.)  | 13 742 kg (30,296 lb.) | 14 251 kg (31,418 lb.)  | 13 798 kg (30,419 lb.) | 15 430 kg (34,017 lb.)  | 14 963 kg (32,987 lb.) |  |
| Tipping Load, Straight, With Tire Deflection                       |                         | 12 924 kg (28,493 lb.) |                         |                        |                         | 14 079 kg (31,039 lb.) |  |
| Tipping Load, 40-deg. Full Turn, No Tire<br>Deflection             | 12 278 kg (27,068 lb.)  | 11 849 kg (26,122 lb.) | 12 328 kg (27,178 lb.)  | 11 898 kg (26,230 lb.) | 13 347 kg (29,425 lb.)  | 12 906 kg (28,453 lb.) |  |
| Tipping Load, 40-deg. Full Turn, With Tire<br>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.) |  |

| 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 Bolt-On Edge (continued)  | 3.10-m³ (4.00 cu. yd.)<br>general-purpose | 3.20-m³ (4.25 cu. yd.)<br>general-purpose | 3.10-m³ (4.00 cu. yd.)<br>general-purpose | 3.20-m³ (4.25 cu. yd.)<br>general-purpose | 3.10-m³ (4.00 cu. yd.)<br>general-purpose | 3.20-m³ (4.25 cu. yd.)<br>general-purpose |  |
| Rated Operating Load, 50% Full-Turn<br>Tipping Load, No Tire Deflection<br>(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<br>Tipping Load, With Tire Deflection<br>(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 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, ballost, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5. |   |   |   |   |   |   |  |

\*Rated operating capacity based on Deere attachments only.

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

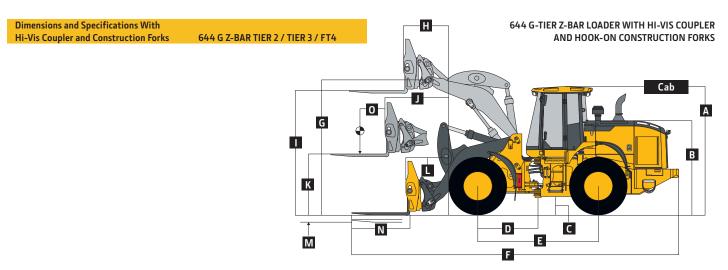


|   | 644 G Z-Bar Tier 2                       | 644 G Z-Bar Tier 3                     | 644 G Z-Bar FT4                       |
|---|--|--|---------------------------------------|
| Dimensions With Bucket With                           |  |  |                                       |
| Bolt-On Edge (illustration above right)               | 3.10-m³ (4.00 cu. yd.) general-purpose   | 3.10-m³ (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.)                  |
| I 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 m³ (4.00 cu. yd.)                   | 3.10 m³ (4.00 cu. yd.)                 | 3.10 m³ (4.00 cu. yd.)                |
| Capacity, Struck                                      | 2.50 m³ (3.27 cu. yd.)                   | 2.50 m³ (3.27 cu. yd.)                 | 2.50 m³ (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)*         | -  | _                                      | -                                     |
| Rated Operating Load, 50% Full-Turn Tipping Load,     | 4867.5 kg (10,731 lb.)                   | 4887 kg (10,774 lb.)                   | 5283 kg (11,647 lb.)                  |
| With Tire Deflection (conforms to ISO 14397-1)*       |  |  | -                                     |
| 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 with | h identified linkage and standard equipm | ent, John Deere PowerTech™ 6068H/Pov   | verTech Plus 6068H/PowerTech PVS      |

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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.

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



|   | 644 G Z-Bar Tier 2     |                        | 644 G Z-Bar Tier 3     |                        | 644 G Z-Bar FT4        |                       |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| Dimensions With Forks   | 1.52-m (60 in.)        | 1.83-m (72 in.)        | 1.52-m (60 in.)        | 1.83-m (72 in.)        | 1.52-m (60 in.)        | 1.83-m (72 in.)       |
| (illustration above right)  | tine length            | tine length           |
| A Height to Top of Cab  | 3.46 m (11 ft. 4 in.)  | 3.46 m (11 ft. 4 in.) |
| <b>B</b> Hood Height  | 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.)     |
| <b>D</b> Length From Centerline to Front Axle   | 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   |
| F Overall Length, Forks on Ground   | 8.97 m (29 ft. 5 in.)  | 9.27 m (30 ft. 5 in.)  | 8.97 m (29 ft. 5 in.)  | 9.27 m (30 ft. 5 in.)  | 8.97 m (29 ft. 5 in.)  | 9.27 m (30 ft. 5 in   |
| G Height to Hinge Pin, Fully Raised   | 4.13 m (13 ft. 7 in.)  | 4.13 m (13 ft. 7 in.) |
| Reach, Fully Raised   | 875 mm (34 in.)        | 875 mm (34 in.)       |
| Fork Height, Fully Raised   | 3.80 m (12 ft. 6 in.)  | 3.80 m (12 ft. 6 in   |
| Maximum Reach, Fork Level   | 1.77 m (5 ft. 10 in.)  | 1.77 m (5 ft. 10 in.  |
| Fork Height, Maximum Reach  | 1.71 m (5 ft. 7 in.)   | 1.71 m (5 ft. 7 in.)  |
| Reach, Ground Level   | 1.15 m (3 ft. 9 in.)   | 1.15 m (3 ft. 9 in.)  |
| Depth Below Ground  | 155 mm (6 in.)         | 155 mm (6 in.)        |
| Tine Length   | 1.52 m (60 in.)        | 1.83 m (72 in.)        | 1.52 m (60 in.)        | 1.83 m (72 in.)        | 1.52 m (60 in.)        | 1.83 m (72 in.)       |
| Load Position, 50% Tine Length  | 0.76 m (30 in.)        | 0.91 m (36 in.)        | 0.76 m (30 in.)        | 0.91 m (36 in.)        | 0.76 m (30 in.)        | 0.91 m (36 in.)       |
| Specifications With Forks   |                        |                        |                        |                        |                        |                       |
| Tipping Load, Straight, No Tire Deflection  | 8868 kg (19,551 lb.)   | 8411 kg (18,543 lb.)   | 8904 kg (19,630 lb.)   | 8446 kg (18,620 lb.)   | 9662 kg (21,301 lb.)   | 9170 kg (20,216 lb    |
| Tipping Load, Straight, With Tire Deflection  | 8616 kg (18,995 lb.)   | 8175 kg (18,023 lb.)   | 8652 kg (19,074 lb.)   | 8211 kg (18,102 lb.)   | 9405 kg (20,734 lb.)   | 8934 kg (19,696 l     |
| Tipping Load, 40-deg. Full Turn, No Tire  | 7638 kg (16,839 lb.)   | 7235 kg (15,950 lb.)   | 7670 kg (16,909 lb.)   | 7265 kg (16,017 lb.)   | 8325 kg (18,353 lb.)   | 7891 kg (17,397 lb.   |
| Deflection  | J                      | <b>3</b> · / ·         |                        |                        | <b>3</b> · · · ·       | 3                     |
| Tipping Load, 40-deg. Full Turn, With Tire<br>Deflection  | 7302 kg (16,098 lb.)   | 6921 kg (15,258 lb.)   | 7332 kg (16,164 lb.)   | 6948 kg (15,318 lb.)   | 7941 kg (17,507 lb.)   | 7536 kg (16,614 lb    |
| Rated Operating Load, 50% Full-Turn<br>Tipping Load, With Tire Deflection<br>(conforms to ISO 14397-1 and SAE J1197)*   | 3651 kg (8,049 lb.)    | 3461 kg (7,630 lb.)    | 3666 kg (8,082 lb.)    | 3474 kg (7,659 lb.)    | 3970.5 kg (8,753 lb.)  | 3768 kg (8,307 lb     |
| Rated Operating Load, Rough Terrain,<br>60% Full-Turn Tipping Load, With Tire<br>Deflection (conforms to EN474-3)*  | 4381 kg (9,658 lb.)    | 4153 kg (9,156 lb.)    | 4399 kg (9,698 lb.)    | 4169 kg (9,191 lb.)    | 4765 kg (10,505 lb.)   | 4522 kg (9,969 lb     |
| Rated Operating Load, Firm and Level<br>Ground, 80% Full-Turn Tipping Load, With<br>Tire Deflection (conforms to EN474-3)*  | 5842 kg (12,879 lb.)   | 5537 kg (12,207 lb.)   | 5866 kg (12,932 lb.)   | 5558 kg (12,253 lb.)   | 6353 kg (14,006 lb.)   | 6029 kg (13,292 l     |
| Operating Weight  | 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     |
| Operating Weight 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 (40,16).  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 hallost and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5 |                        |                        |                        |                        |                        |                       |

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.

#### 644 G Z-BAR TIER 2 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\*

| KOI 5 cab, rear cast bumper/counterweigh                  | t, transmission side-m | aine guarus, bottoin g | guarus, stanuaru tires, | , run ruei tank, anu 73 | -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<br>Radial Tire | + 406 kg (+ 895 lb.)   | + 308 kg (+ 679 lb.)   | + 271 kg (+ 597 lb.)    | 0 mm (0 in.)            | + 20 mm (+ 0.8 in.)    | + 7 mm (+ 0.3 in.)  |
| Radiai 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.) |

<sup>\*</sup>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, transm | ission 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,                          |                                 |

| / ida ( ) or dedder ( ) iig (ibi) db iiidiedded |                      | ppg zoaa,            | ppg _oaa,            |              |                     |                     |
|---|----------------------|----------------------|----------------------|--------------|---------------------|---------------------|
| 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.) |
|   |                      |                      |                      |              |                     |                     |

<sup>\*</sup>May change based on vehicle configuration, weight, or tire-pressure adjustments.

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

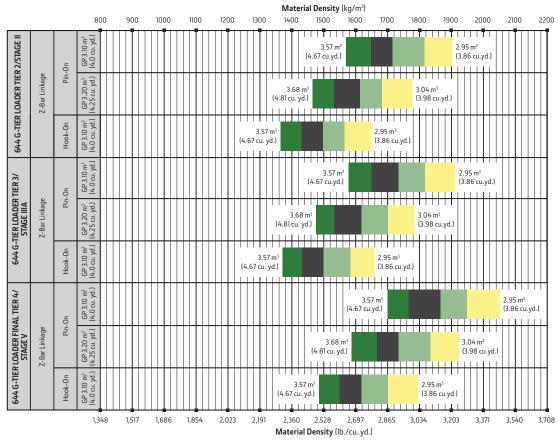
Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.25-m³ (4.25 cu. yd.) high-performance bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg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

| 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  | 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.) |

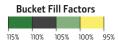
<sup>\*</sup>May change based on vehicle configuration, weight, or tire-pressure adjustments.

#### **Bucket Selection Guides\***

Key: General-Purpose (GP)



| LOOSE MATERIALS                  | kg/m³ | lb./cu. yd. | LOOSE MATERIALS                        | kg/m³ | lb./cu. yd. |
|----------------------------------|-------|-------------|--|-------|-------------|
| 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 temperatures
- Serpentine 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 deq. C [−10 deq. 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

#### 644 G Hydraulics (continued)

- ▲ 3 function joystick with F-N-R and 3rdfunction auxiliary lever
- ▲ 3 function 3-lever fingertip controls and steering column F-N-R
- Ride control, automatic with monitor-adjustable speed settings
- ▲ Hydraulic control system for quick-coupler locking pins
- A 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
- 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

#### 644 G Operator's Station (continued)

- Seat with headrest extension, fabric cover, and adjustable air suspension
- 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 Euro-pattern attachments (ISO)

#### Overall Vehicle

- JDLink™ wireless communication system (available in specific countries; see your dealer for details)
- Front and rear tie-downs
- Rear counterweight with hitch and locking pin
- Articulation locking bar
- Loader boom service locking bar
- 40-deg. steering articulation to each side with rubber-cushion stops on frame
- Vandal protection with lockable engine enclosures, counterweight compartments, and filler access for radiator/fuel/DEF/hydraulic transmission
- Left-side service steps and handholds
- ▲ Right-side service steps and handrails
- Fuel-tank fill strainer
- Ground-level fuel and DEF fill
- Same-side ground-level daily servicing
- 23.5R25 radial tires on 3-piece rims
   23.5-25 bias tires on 3-piece rims
- Fenders, front narrow
- ▲ Fenders, front and rear full width
- ▲ Transmission side-frame and bottom guards
- ▲ License-plate bracket and light

