748L-II
GRAPPLE SKIDDER
When loggers like you tell us what they need to succeed in the woods and at the landing, we listen and then get to work putting ideas into action. Based on some of your best input, the John Deere 748L-II Grapple Skidder boasts a wealth of performance and durability features to keep you running long and strong. Our latest upgrades reflect years of continual refinement that have resulted in a proven machine that’s simple to operate, easy to maintain, and reliable to own. The 748L-II is more than ready to help you take on tasks in the real woods.

**All about uptime**
Simplified routing of the electrical and hydraulic systems helps boost reliability and ease maintenance. Improved protection of wiring and hoses minimizes wear and bending. Electrical components are durably constructed to withstand tough forestry applications and extend wear life.

**Stable and capable**
Combining impressive horsepower and power-to-weight ratio with a constant engine speed, the 748L-II delivers superb responsiveness with maximum efficiency. Rock-solid stability provides excellent pulling power, especially when climbing hills, navigating adverse terrain, or hauling bigger payloads.

**Best of both worlds**
Continuously Variable Transmission (CVT) combines the efficiency of direct drive with the smoothness and operating ease of hydrostatic drive. Automatically sensing the load, CVT delivers torque and tractive effort as needed to maintain the maximum speed the operator sets, reducing engine wear, optimizing fluid economy, and eliminating manual shifting.

**RELIABLE WARRIOR IN THE WOODS.**
Comfortable cushioning
Steering sensors control articulation speed when nearing frame-to-frame contact, cushioning impact during full articulation and enhancing operator comfort.

Independent axle-diff lock
Engage the front and rear axles, or just the front or rear as needed, to maneuver over tough terrain.

Get ready for rugged
Optional Outboard-Extreme™ axles are designed with larger components to deliver maximum jobsite durability, along with a heavier weight to boost machine stability. Higher-ply tire options from the factory increase tire strength for carrying heavier loads.

Large and in charge
Optional 1.77-square-meter (19.1 square foot) grapple on the 748L-II helps you deliver more wood to the landing with fewer skids. Grapple squeeze provides a constant pressure, so operators are less likely to lose a log, even if a load gets jarred.
Coordinate your operation and your team’s productivity from wherever your work takes you with John Deere Precision Forestry and our core technology solutions.
Core intelligence
Your John Deere Forestry machine arrives from the factory equipped with a powerful set of technologies and capabilities already built in. Each plays an important role in managing the health and performance of your overall equipment fleet:

- **JDLink™ connectivity and the John Deere Operations Center™** let you track your equipment, see which machines are working, and know if they’re being utilized properly and at maximum productivity and efficiency.

- **John Deere Connected Support™** leverages a suite of dealer and factory tools designed to deliver increased uptime and productivity, and lower daily operating costs.

- **Remote Diagnostics and Programming Capability** within John Deere Connected Support helps your dealer warn you of any issue with your machine — often before you know of the problem yourself — and initiate solutions without charging you for a technician’s visit to your jobsite.

- Our advanced dual approach to **Machine Health** combines the expertise of the technology specialists at our dealerships with the data specialists at our central Machine Health Monitoring Center (MHMC). As part of John Deere Connected Support, information from thousands of connected machines flows through the MHMC, enabling our specialists to identify trends and develop new and improved preventative-maintenance and repair protocols.

Precision Forestry
Take the guesswork out of planning, implementing, and monitoring your logging operation. The tools of our production-planning and -tracking system expand on the core technology features that come standard in every John Deere Forestry machine to unleash a powerful new array of possibilities:

- **TimberMatic™ Maps** is an innovative onboard software solution that helps you reimagine your jobsites. Real-time production views, optimized routes, and shared wireless connections between machines make it easier than ever before to take your forestry operation to the next level.

- **TimberManager™** is a web-based solution for PCs, tablets, and mobile phones that allows you to follow jobsite progress. Combined with TimberMatic Maps, this software provides complete visibility of your operation — from land harvested to specific machines — so you can streamline communication, analyze tasks, and increase productivity:
  - **Remote Monitoring** keeps tabs on the health and performance of your fleet from wherever you are.
  - **Precise Progress Tracking** lets you set goals for your team to meet throughout the day.
  - **Live Production View** displays progress including tree count, area harvested, and estimated tonnage.
  - **Simplified Mapping** of machine data and GPS-based location tracking shows precise stem and log counts.
  - **Real-Time Updates** let you adjust course or eliminate tasks if needed to maintain steady workflow.
  - **Fleet Optimization** goes beyond machine management to help improve the efficiency of your business.
## 748L-II Grapple Skidder Specifications

<table>
<thead>
<tr>
<th>Engine</th>
<th>748L-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer / Model</td>
<td>John Deere PowerTech™ PSS 6.8L</td>
</tr>
<tr>
<td>Off-Road Emission Standards</td>
<td>EPA Final Tier 4/EU Stage V</td>
</tr>
<tr>
<td>Gross Power</td>
<td>196 kW (263 hp) at 1,800 rpm</td>
</tr>
<tr>
<td>Gross Torque</td>
<td>1141 Nm (841 ft.-lb.) at 1,600 rpm</td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Valves per Cylinder</td>
<td>4</td>
</tr>
<tr>
<td>Engine Displacement</td>
<td>6.8 L (415 cu. in.)</td>
</tr>
<tr>
<td>Engine Bore and Stroke</td>
<td>106 x 127 mm [4.17 X 5.00 in.]</td>
</tr>
<tr>
<td>Fuel System</td>
<td>High-pressure common rail</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged and charge-air cooled</td>
</tr>
<tr>
<td>Air Cleaner</td>
<td>Dual stage with safety element</td>
</tr>
<tr>
<td>Engine Cold-Start System</td>
<td>Glow plugs</td>
</tr>
</tbody>
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### Cooling
- **Cooling System:** Heavy-duty radiator with continuous deaeration tank and recovery reservoir
- **Fan Drive:** Hydraulic, variable speed, reversing

### Powertrain
- **Transmission:** Continuously Variable Transmission (CVT)
- **Speed Ranges, Forward and Reverse:** 6
- **Maximum Travel Speed With 30.5-32 Tires:** 0–24.74 km/h (0–15.37 mph) — 6 speed-range configurations available

### Axles
- **Front Axle Oscillation, Stop to Stop:** 30 deg.
- **Options:** 1425 Super-Wide Extreme-Duty (SWEDA™) and 1700 Outboard-Extreme ™
- **Differential (front and rear):** Hydraulic-locking, operated-on-the-go, closed-center differential lock
- **Steering:** Fully hydraulic, joystick or wheel
- **Articulation Angle:** 45-deg. each direction
- **Service Brakes:** Inboard-mounted, wet-disc, oil-cooled, self-adjusting and self-equalizing front and rear axles
- **Parking Brake:** Automatically spring-applied, hydraulically released, sealed and lubricated, wet multi-disc

### Hydraulics
- **Main Pump:** Open circuit, axial piston, variable displacement
- **Maximum Displacement:** 85 cc/rev (5.19 ci/rev)

### Electrical System
- **Voltage:** 24 volt
- **Number of Batteries (12 volt):** 2
- **Battery Capacity (each):** 950 CCA
- **Alternator Rating:** 150 amp
- **Lights (optional):** 11

### Dual-Function Grapples

#### Standard
- **Opening:** 3251 mm (128 in.)
- **Area:** 1.48 m² (15.9 sq. ft.)

#### Optional
- **Opening:** 3886 mm (153 in.)
- **Area:** 1.63 m² (17.5 sq. ft.)

#### Optional
- **Opening:** 3785 mm (149 in.)
- **Area:** 1.77 m² (19.1 sq. ft.)

### Grapple Control Joystick

### Refill Capacities

#### Fuel Tank
- **Standard:** 391.8 L (103.5 gal.)
- **Optional:** 4577 L (120.9 gal.)

#### Hydraulic Reservoir
- **123.6 L (32.6 gal.)**

#### Diesel Exhaust Fluid (DEF) Tank
- **19.9 L (5.2 gal.)**

### Operating Weight
- **Machine Weight:** 19,713 kg (43,610 lb.)

### Dozer Blade
- **Width:** 2962.4 mm (116.6 in.)
- **Height:** 6876 mm (271 in.)
- **Blade Control:** Joystick

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Contact us to learn more.

JohnDeere.com/Skidders
JohnDeere.ca/Skidders