ENGINE

John Deere engineered and manufactured. Replaceable wet-type cylinder liners provide superior heat dissipation, longer life. High-strength alloy head has replaceable valve seat inserts. The forged steel, 5-main-bearing crankshaft is statically and dynamically balanced for smooth operation. Cast aluminum pistons provide good heat transfer and pistons are sprayed with cooling oil for longer life.

**Engines:**
- John Deere 459D: Rated power at 2,200 rpm = 50.6 kW (68 HP) fuel consumption = 5.9 L/100 km; 262000000 kcal/h; 1500 Nm; 5000 rpm
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**Cylinders:**
- Cylinders: 5
- Displacement: 199.9 cu. in. (3.37 L)
- Compression ratio: 15:1
- Bore: 3.85 in. (97.8 mm)
- Stroke: 3.15 in. (80 mm)
- Crankshaft: 3.50 in. (88.9 mm)

**TRANSMISSION**

John Deere designed and built 4-speed helical gear, synchronized collar shift transmission with hydraulic reverse. Uses single stage, dual phase 11-inch (280 mm) converter with 2.78:1 stall ratio.

**TRAVEL SPEEDS**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Forward (mph)</th>
<th>Reverse (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.6</td>
<td>8.6</td>
</tr>
<tr>
<td>2</td>
<td>5.3</td>
<td>12.2</td>
</tr>
<tr>
<td>3</td>
<td>7.4</td>
<td>15.8</td>
</tr>
<tr>
<td>4</td>
<td>10.1</td>
<td>23.5</td>
</tr>
</tbody>
</table>

**FINAL DRIVES**

Heavy-duty, inboard-mounted planetary type. Equipped with axle shock loads over three gears that run in a cooling oil bath.

**BRAKES**

Hydraulic wet disk service brakes are mounted inboard and are pressure cooled and lubricated. They’re self-adjusting and self-equalizing. Individual pedals can be applied together or separately. Parking/emergency brake is an independent system that is spring-actuated, hydraulically released, and controlled by an electric switch on the control console. Automatically neutralizes reverse when parking brake is applied. A mechanical V-grove band applies pressure on differential ring gear. All brakes conform to SAE J1473.

**CAPACITIES**

- Fuel tank: 23 gal. (87 L)
- Engine coolant: 12 qt. (16 L)
- Engine oil including filter: 9 qt. (12 L)
- Torque converter and reverser system: 8 gal. (3 L)
- Hydraulic system: 16 gal. (60 L)

**STEERING**

Hydrostatic power steering gives superior control at all speeds. Excellent steering torque allows easy maneuvering with heavy loads. Power steering conforms to SAE J1151 and emergency steering to SAE J53.

- Non-powered axle
  - Curb turning radius with brakes: 12 ft. 8 in. (3.65 m)
  - Curb turning radius without brakes: 13 ft. 2 in. (4.00 m)
  - Bucket clearance with brakes: 32 ft. 2 in. (0.69 m)
  - Bucket clearance without brakes: 34 ft. 7 in. (1.05 m)
  - Mechanical-front wheel drive:
    - Curb turning radius with brakes: 11 ft. 1 in. (3.57 m)
    - Bucket clearance with brakes: 30 ft. 4 in. (0.93 m)
  - Axle oscillations stop to stop, both axles: 11 degrees

**HYDRAULICS**

- System: open center
- Pressure, main relief: 7,200 psi (48.6 MPa)
- Pump: 160 gpm (610 L/min)
- Filter: return line: 10 micron, spin-on replaceable element

**CYLINDERS**

- Bore: 7.65 in. (195 mm)
- Stroke: 7.65 in. (195 mm)
- Cubic inch: 320 cu. in. (5,244 cc)
- Horsepower: 150hp

**TIRES**

- Rear: 11L-15, 8 PR
- Front: 11L-15, 8 PR

**OPERATING WEIGHTS**

- 2300 Landscape Loader w/ 3-point hitch:
  - Weight: 7,600 lb. (3,447 kg)

- Test results on 1690: 1690/1680

**OPERATING STATION**

- ROPS canopy is standard equipment. Working height is 8 ft. 6 in. (2.55 m). A low ROPS option reduces height to 8 ft. 1 in. (2.44 m), facilitating work in close quarters and better overhauling.

**LOAD DESIGN**

- Simplified linkage and single cylinder design reduces weight and provides an unobstructed view to the bucket. Fewer pivot points and lubrication points reduce maintenance time and expense.
THE JDAdvantEDGE

JDAdvantEdge is a wealth of support programs, parts systems, and dealer resources, all designed to give you the edge. This package of special benefits is a major reason why John Deere offers the "best value" for your equipment dollar.

**Best parts support** - Twelve regional parts depots in North America and others around the world put parts support near your job no matter where in the world it is. A computerized FLASH™ parts locating system linking these depots to dealerships can find out-of-stock parts in a hurry and get them into your hands fast. Usually, within 24 hours.

**Best service backup** - Dealer service technicians are regularly schooled, at our modern facility in Davenport, Iowa, or by professionals in the field, to diagnose quickly and repair efficiently.

If they’re stumped, a phone call to DTAC (Dealer Technical Assistance Center) puts them in touch with a staff of pros at the factory who help them find a solution quickly.

**Best dealers** - Your John Deere dealer is an important contributor to the JDAdvantEdge. He or she is committed to being the best equipment supplier you can work with.

This is a dollars-and-cents commitment in parts inventory, in service facilities, in field-service trucks. It's a sweat-and-blood commitment in dedicated, skilled, and highly trained and motivated personnel in each and every department at the dealership.

But what sets John Deere dealers apart from all the rest is something more, a factor somewhat difficult to measure -- a caring attitude, and a sincere desire to be the best at meeting the needs of each individual customer.

**John Deere Finance Plans** - Whether you rent, lease, or buy John Deere equipment, your dealer can explain the John Deere options available. One-stop options that let you free up operating capital, keep other lines of credit open. More solid benefits of the JDAdvantEdge.

**Best protection** - In addition to the new equipment warranty that meets or exceeds the competition, SECURE® extended coverage, an optional service product for John Deere equipment, is available for repair coverage after the warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Consult your dealer for availability and details.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 6,000 feet (1800 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 18.5-24, 8 PR rear tires, 11L15, 8 PR front tires, and 1.12 cu. yd. (0.86 m³) loader bucket.