ENGINE

Type................................................................. John Deere PowerTech® 6125A dual horsepower, turbocharged and aftercooled; meets North American EPA and CARB non-road diesel engine emission regulations effective January 1, 1996; also is certifiable to proposed E.U. (European Union) regulations, which are not yet effective

Rated power
  Gear 1.............................................................. 240 SAE net hp (179 kW), 263 SAE gross hp (196 kW) @ 2,000 rpm
  Gears 2–4.......................................................... 260 SAE net hp (194 kW), 283 SAE gross hp (211 kW) @ 2,000 rpm

Cylinders.............................................................. 6

Displacement......................................................... 766 cu. in. (12.5 L)

Maximum net torque
  Gear 1 (45% torque rise)...................................... 943 lb.-ft. (1280 Nm) @ 1,500 rpm
  Gears 2–4 (35% torque rise)................................. 943 lb.-ft. (1280 Nm) @ 1,500 rpm

Lubrication............................................................. pressure system with full-flow spin-on filter and cooler

Fuel consumption, typical...................................... 4.0 to 10.0 gal./hr. (15 to 38 L/h)

Cooling fan............................................................ blower type

Electrical system.................................................. 24 volt with 55-amp alternator

Batteries (two 12 volt)........................................... 950 CCA; reserve capacity: 200 min.

Air cleaner............................................................ dual safety element dry type; restriction indicator for service

TRANSMISSION

Type................................................................. single stage, single phase torque converter with freewheeling stator; countershaft, computer-controlled power shift

Controls.............................................................. smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, twist-grip shift lever, quick-shift button on hydraulic lever, automatic shift feature is selectable to shift between gears 1–4 or 2–4

Travel speeds* .....................................................

  Gear 1.............................................................. 4.6 mph (7.4 km/h)
  Gear 2.............................................................. 8.6 mph (13.9 km/h)
  Gear 3.............................................................. 13.1 mph (21.2 km/h)
  Gear 4.............................................................. 24.5 mph (39.5 km/h)

*Requires ± 8-degree rear axle stops.

FINAL DRIVES

Type................................................................. heavy-duty planetary, mounted inboard

Differentials......................................................... conventional front and rear – standard; hydraulic locking front – optional; dual locking front and rear – optional

Rear axle oscillation, stop to stop......................... 26 degrees

Maximum rise and fall, single wheel...................... 19.5 in. (495 mm)

Brakes (conform to SAE J1473, ISO3450) ............... inboard-mounted hydraulic wet-disc, bathed in cooling oil, long life self-adjusting

Parking brake....................................................... automatically spring applied, hydraulically released, wet disc bathed in cooling oil

HYDRAULIC SYSTEM/STEERING

Pump (loader and steering)................................. two variable-displacement, load-sensing piston pumps; closed-center system

  Maximum flow .................................................. 104 gpm (393 L/min.) @ 1,000 psi (6900 kPa) and 2,250 rpm

  Pressure ............................................................ loader and steering relief 3,200 psi (22,000 kPa)

Loader controls................................................... two-function valve; single or dual lever controls; control lever lockout feature; optional third-function valve with auxiliary lever

Hydraulic cycle times

  Raise .................................................................... 6.6 sec.
  Dump ..................................................................... 1.5 sec.
  Lower ................................................................... 3.0 sec. (float down) / 3.0 sec. (power down)

  Total ................................................................. 11.1 sec.

Maximum lift capacity

  With 4.5 cu. yd. (3.4 m³) excavating bucket........ 47,450 lb. (21,520 kg)
  Lift at ground level............................................. 25,665 lb. (11,640 kg)
  Lift at maximum height........................................ 25,665 lb. (11,640 kg)

Steering (conforms to SAE J1511).........................

  Type................................................................. power, fully hydraulic
  Relief valve setting............................................. 3,200 psi (22,000 kPa)
  Articulation angle.............................................. 80-degree arc (40 degrees each direction)

  Turning radius (measured to centerline of outside tire).......................... 20 ft. 2 in. (6.14 m)

TIRES

<table>
<thead>
<tr>
<th>Choice of</th>
<th>Tread Width</th>
<th>Width Over Tires</th>
<th>Change In Vertical Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.5-25, XHAT L3 Michelin Radial*</td>
<td>86.6 in. (2200 mm)</td>
<td>113.2 in. (2875 mm)</td>
<td>~3.1 in. (~78 mm)</td>
</tr>
<tr>
<td>26.5-25, 16 PR L2</td>
<td>86.6 in. (2200 mm)</td>
<td>115.8 in. (2940 mm)</td>
<td>~1.1 in. (~28 mm)</td>
</tr>
<tr>
<td>26.5-25, 20 PR L3</td>
<td>86.6 in. (2200 mm)</td>
<td>116.0 in. (2947 mm)</td>
<td>~1.4 in. (~35 mm)</td>
</tr>
<tr>
<td>26.5-25, 20 PR L5*</td>
<td>86.6 in. (2200 mm)</td>
<td>115.8 in. (2940 mm)</td>
<td>0</td>
</tr>
<tr>
<td>26.5-25, GP/2B Goodyear Radial (L2 type)</td>
<td>86.6 in. (2200 mm)</td>
<td>115.6 in. (2935 mm)</td>
<td>0</td>
</tr>
<tr>
<td>26.5-25, XHAT Michelin Radial (L3 type)</td>
<td>86.6 in. (2200 mm)</td>
<td>115.6 in. (2937 mm)</td>
<td>~0.6 in. (~15 mm)</td>
</tr>
<tr>
<td>26.5-25, X-MINE Michelin Radial*</td>
<td>86.6 in. (2200 mm)</td>
<td>116.2 in. (2952 mm)</td>
<td>+1.5 in. (~39 mm)</td>
</tr>
</tbody>
</table>

*Requires ± 8-degree rear axle stops.

CAPACITIES

Fuel tank with ground level fueling..................... 114 gal. (432 L)

Cooling system .................................................. 45 qt. (43 L)

Engine lubrication, including full-flow spin-on filter .............................................. 40 qt. (38 L)
CAPACITIES

Power shift transmission, including vertical cartridge filter………………………………30 qt. (28 L)
Differential (each axle)
  Front and rear .......................................................... 49 qt. (46 L)
Loader hydraulic reservoir ...............................................38 gal. (144 L)
Park brake.........................................................................0.53 qt. (0.5 L)

OPERATING WEIGHT

With all standard equipment, 26.5-25, 20 PR L3 tires, 1,050-lb. (477 kg) counterweight,
ROPS cab, 175-lb. (79 kg) operator, and full fuel tank...............................................................49,790 lb. (22 585 kg)
Fork weight* ....................................................................4,497 lb. (2040 kg)
*Allied equipment log fork ordered through John Deere dealer.

OPERATING INFORMATION

Lift capacity maximum height
  Fork level ..................................................................... 24,310 lb. (11 027 kg)
  Fork rolled back.......................................................... 26,927 lb. (12 214 kg)
Lift capacity ground level
  Fork level ..................................................................... 37,866 lb. (17 176 kg)
  Fork rolled back.......................................................... 41,526 lb. (18 836 kg)
Tipping load, 40-degree full turn, SAE – maximum reach
  Fork level ..................................................................... 22,247 lb. (10 091 kg)
  Fork rolled back.......................................................... 28,424 lb. (12 893 kg)
Tipping load, straight – maximum reach
  Fork rolled back.......................................................... 34,077 lb. (15 457 kg)
Maximum rollback
  Ground level .................................................................. 25 degrees
  Carry height .................................................................. 29.9 degrees
Length of tines................................................................... 66 in. (1.68 m)
Tine spacing center to center........................................... 81 in. (2064 mm)
Minimum diameter clamp closing ................................ 12 in. (305 mm)

DIMENSIONS WITH LOG FORK

A Height to top of cab and canopy............................ 11 ft. 7 in. (3520 mm)
B Height to top of exhaust......................................... 10 ft. 2 in. (3100 mm)
C Ground clearance...................................................... 18.3 in. (465 mm)
D Length from centerline to front axle...................... 5 ft. 7 in. (1700 mm)
E Wheelbase .................................................................. 11 ft. 2 in. (3400 mm)
F Height to hinge pin, fully raised ....................... 14 ft. 1 in. (4281 mm)
G Dump height ............................................................ 9 ft. 8 in. (2.95 m)
H Ground to tine clearance, fully raised.................. 13 ft. (3.96 m)
I Overall length.......................................................... 29 ft. 1 in. (8.86 m)
Additional Equipment

**ENGINE**
- Antifreeze: ~34°F (~37°C)
- Coolant recovery tank
- Engine oil cooler
- Environmentally friendly engine oil drain
- Fan safety guard
- Muffler, after burner with large vertical exhaust stack
- Chrome exhaust stack
- Quick-release fuel filter and water separator
- Ether starting aid (for cold starts)
- Engine air heater (for cold starts)
- Heavy-duty trash-resistant cooling package
- Desert and high-altitude cooling package
- Special application trash screens and packages
- Engine coolant heater, 1,000 watts, 110 volts

**POWER TRAIN**
- TC/PS transmission, computer-controlled electronic soft shift
- Conventional-type differentials, front and rear
- Front and rear axles with hydraulic locking differential
- Front axle with hydraulic locking differential

**HYDRAULIC SYSTEM**
- Hydraulic system oil cooler
- Two-function hydraulic valve with joystick control
- Two-function hydraulic valve with two levers and adjustable wristrest
- Three-function hydraulic valve with joystick control and auxiliary lever for third function
- Three-function hydraulic valve with two levers and adjustable wristrest and auxiliary lever for third function
- Hydraulic conversion kits, two to three function valves
- Hydraulic lever lockout
- Automatic boom height kickout control
- Automatic boom return-to-carry control
- Automatic bucket return-to-dig control
- Reservoir sight gauge
- Spin-on hydraulic filters, vertical mounting
- Ride control system (automatic type)

**ELECTRICAL**
- 24-volt electrical system
- Alternator, 55 amp and 24 volts
- Alternator, high capacity, 80 amp and 24 volts
- Alternator trash covers
- Batteries, standard (2), 12 volt with 950 CCA, 200-min. rated reserve
- Batteries, heavy duty (2), 12 volt with 1,000 CCA, 320-min. rated reserve
- Radio ready cab, 24 volt to 12 volt converter, rated at 5 amps, with 12-volt receptacle in operator's compartment, fused electrical lead

**HYDRAULIC SYSTEM**
- Cab wired for rotating beacon
- 24-volt to 12-volt, 10-amp voltage converter
- 24-volt AM/FM stereo radio with clock
- Horn, with push button in center of steering wheel
- Conforms to SAE 1994J446
- Lights
  - Driving with guards / Stop and tailights / Turn signals and flashes / Conform to SAE 99
  - Work lights, front (2) and rear (2)
- Monitor and gauges, computerized with audible and visual warnings
- Analog instruments: Engine coolant temperature / Engine oil pressure / Fuel level / Hydraulic oil temperature / Transmission oil temperature / Speedometer
- Built-in diagnostics: Fault code retrieval / Message center
- Digital instruments: Engine rpm / Hourmeter / Selectable battery voltage or odometer / Transmission gear indicator
- Indicator lights: Turn signals / Warning flashes / Work lights
- Message center display: Accessory settings / Diagnostic fault code messages
- Operator warning lights: Battery voltage / Brake pressure / Coolant level / Engine air filter / Engine oil pressure / Fasten seat belt / Hydraulic oil filter / Hydraulic oil temperature / Park brake actuated / Transmission filter restriction
- Push-button selection: Three clutch cutoff adjustments / Two automatic transmission sequences / Two quick-shift button sequences
- Reverse warning alarm
- Conforms to SAE 1994J446
  - Master electrical disconnect switch

**OPERATOR'S STATION**
- Canopy
- ROPS/POPS / Multiplane isolation mounted for noise/vibration reduction / Conforms to SAE J1040APR88
- Cab
- ROPS/POPS / Heated/defroster / Multiplane isolation mounted for noise/vibration reduction / Front and rear windshield washers and intermittent wipers / Tinted safety glass / Conforms to SAE J1040APR88
- Cup holder, personal cooler holder, and storage space
- Handholds and steps, ergonomically located and slip resistant
- Conforms to SAE J185

**TIRE**
- 23.5-25, XHAT L3 Michelin Radial
- 26.5-25, 16 PR L2
- 26.5-25, 20 PR L3
- 26.5-25, GP-2B L2 Goodyear Radial
- 26.5-25, XHAT L3 Michelin Radial
- Less wheels and tires

**KEY**
- Standard equipment
- Optional or special equipment

**CONTROL OWNING AND OPERATING COSTS**

Total Repair Cost Management (TRCM) is part of John Deere’s proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

- **Total Repair Cost Management (TRCM)** - part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce the total repair cost management. (TRCM) is part of John Deere’s proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce the total repair cost management.

**Customer Support Advisors (CSAs)** - Deere believes the CSA program lends a personal quality to Total Repair Cost Management. Certified Customer Support Advisors have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that’s right for your business and take the burden of machine maintenance off your shoulders.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with all standard equipment. 26.5-25, 20 PR L3 tires, 2,126 lb. (966 kg) optional overcentering, ROPS cab; full fuel tank, and 175-lb. (79 kg) operator.

**LOADING**
- Loaders
- Boom service locking bar
- Conforms to SAE J38
- High-lift boom

**LOG FORKS AND ATTACHMENTS**
- Full line of allied equipment log forks
- Hydraulic control system for quick coupler landing pins
- Quick coupler and attachments
- Load rating system

**TIRES**
- 23.5-25, XHAT L3 Michelin Radial
- 26.5-25, 16 PR L2
- 26.5-25, 20 PR L3
- 26.5-25, GP-2B L2 Goodyear Radial
- 26.5-25, XHAT L3 Michelin Radial
- Less wheels and tires

**OTHER**
- Articulation locking bar
- Conforms to SAE J276
- Bottom guard, rear
- Bottom guards, front frame and transmission
- Counterweights
- Counterweights, extra duty, 1,257 lb. (570 kg)
- Drawbar, with locking pin
- Fenders, front and rear
- Vandal protection, includes lockable engine enclosure, rear grille, and fuel fill
- Fire extinguisher
- Lift and tie-down hooks
- Material weighing system
- Secondary steering
- Transmission side frame guards

**OILSCAN PLUS** program – tells you what’s going on inside your machine’s major components so you’ll see a decline in performance before the system fails. OilsScan Plus oil analysis is included in most Secure™-Extended warranty and preventive-maintenance contracts.

**Maintainit™ program** – flexible, easy-to-use Maintainit software lets you start your own computerized maintenance program by putting complete machine histories at your fingertips. It features a library of John Deere equipment, a spare-parts inventory list, and a list of maintenance tasks. Compare costs; schedule maintenance procedures by hourmeter or date; or print, fax, or e-mail purchase and work orders with just a few quick keystrokes.

**Component Life-cycle data** – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use can you expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

**Preventive Maintenance (PM) contracts** – give you a fixed cost for maintaining a machine for a given period of time. It also helps you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

**Secure-Extended warranty** – gives you a fixed cost for machine repairs for a given period of time so you can effect minimum costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And a Secure-Extended contract also travels well because it’s backed by John Deere and is honored by all Deere construction dealers.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70020, using Ns. 2-0 fuel at 35 API gravity. No derating is required up to 10,000 feet (3,000 m) altitude. Gross power is without cooling fan.