

495D EXCAVATOR

26,184 lb (11 877 kg)

Transport Height.....7 ft 5 in. (2.25 m)
Transport Length.....23 ft 3 in. (7.08 m)
Machine Width.....9 ft 6 in. (2.89 m)

ENGINE.....**John Deere 300 Series**

Number of Cylinders and Displacement 4 cylinders, 276 cu in. (4.5 L)
Air Intake System..... Turbocharged
Bore and Stroke 4.19 x 5.00 in. (106.4 x 127 mm)
Compression Ratio 17.2 to 1
Net hp:
 At 2100 rpm (Dig Mode) 95 SAE hp (71 kW)
 At 2300 rpm (Travel Mode)..... 100 SAE hp (75 kW)
Maximum Torque at 1300 rpm..... 284 lb-ft (385 N•m)
Nozzle Opening Pressure:
 New 3820 ± 40 psi (26 340 ± 275 kPa)
 Used 3620 ± 40 psi (25 000 ± 275 kPa)
Valve Clearance (Cold):
 Intake 0.014 in. (0.36 mm)
 Exhaust 0.018 in. (0.46 mm)
Oil Pressure at Fast Idle 50 ± 15 psi (345 ± 100 kPa)
Static Injection Pump Static Timing Line on governor weight retainer aligned with line on cam ring with No. 1 piston at TDC
Dynamic Injection Pump Timing at
 Rated Load rpm*:
 4276D:
 Dig Mode NA
 Travel Mode..... 16 + 0 - 1° BTDC
 4045D:
 Dig Mode NA
 Travel Mode..... 16 + 0 - 1° BTDC
Speeds:
 Slow Idle 1000 ± 25 rpm
 Fast Idle (Propel Mode)..... 2475—2500 rpm
 Rated Full Load (Dig Mode) 2300 + 25 - 50 rpm
 Rated Full Load (Travel Mode)..... 2300 rpm
Turbocharged Boost Pressure
 at Rated Full Load
 (Minimum w/4045T Metric Engine)..... 9 psi (62 kPa)
Cylinder Pressure (Compression Min)..... 350 psi (2415 kPa)
Number of Flywheel Teeth 129
Electrical System 24 volt
Alternator 42 amp
Cooling System Pressure 10 psi (69 kPa)

*Note: *For latest information, see Dealer Technical Assistance Center (DTAC) Solution K000413.*

POWER TRAIN

Transmission Constant mesh with high and low speed ranges.
 Pressurized lubrication system.
Travel Motor..... A bent axis, axial piston variable displacement motor.
Travel Brake Air over hydraulic shoe type brakes in each wheel.
Park Brake Air actuated drum type on transmission output shaft.

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HYDRAULIC SYSTEM—Open-Center

Main Pump:

Type.....	2 variable-displacement axial-piston
System Pressure—Travel.....	4620 ± 150 psi (31 855 ± 1035 kPa)
System Pressure—Digging	4050 ± 150 psi (27,925 ± 1035 kPa)
Minimum Flow	28 gpm (106 L/min) used at 2500 psi (17237 kPa) and 2200 rpm

Steering Pump:

Type.....	Gear
System Pressure	1775 ± 25 psi (12 300 ± 175 kPa) at fast idle
System Crossover Relief Valve	2465 psi (17 000 kPa)
Minimum Flow	5.7 gpm (21.64 L/min) used at 1775 psi (12 300 kPa) and 2100 rpm

Pilot Pump:

Type.....	Gear
System Pressure	640 ± 70 psi (4410 ± 480 kPa) at fast idle
Minimum Flow	5.5 gpm (20.8 L/min) at 2200 rpm

RELIEF VALVE SETTINGS

Boom I (Head and Rod) Front Pump	4260 + 140 - 0 psi (29 372 + 965 - 0 kPa)
Arm I (Head and Rod) Rear Pump	4260 + 140 - 0 psi (29 372 + 965 - 0 kPa)
Bucket (Head and Rod) Front Pump	4770 + 140 - 0 psi (32 888 + 965 - 0 kPa)
Rear or Blade Stabilizer (Head and Rod) Rear Pump.....	4260 + 140 - 0 psi (32 888 + 965 - 0 kPa)
Swing Brake Valve Circuit Relief Valve Left and Right (Crossover Relief) Rear Pump.....	3340 ± 140 psi (23 030 ± 965 kPa)

CYCLE TIMES (At Fast Idle)

Function	New Machine	Max Allowable
Boom Raise	2.7 ± 0.3 sec	3.5 sec
Boom Lower	2.3 ± 9.3 sec	3.0 sec
Arm Out	2.1 ± 0.3 sec	2.8 sec
Arm In	3.3 ± 0.4 sec	4.2 sec
Bucket Roll-Out	2.2 ± 0.3 sec	2.9 sec
Bucket Roll-In	3.6 ± 0.3 sec	4.5 sec
Swing (3 Revolutions).....	12.5 ± 1.0 sec	16.2 sec
Stabilizer Extend	1.54 ± 0.3 sec	2 sec
Stabilizer Retract.....	1.41 ± 0.3 sec	1.83 sec

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LUBRICANTS

See front of this book for the codes [].

CAPACITIES

	U.S.	Metric
Fuel Tank	66 gal	250 L
Cooling System	22 qt	21 L
Engine Oil w/ Filter [E]:		
(S.N. —137161)	15 qt	14.2 L
(S.N. 137162—)	13 qt	13 L
Hydraulic System [C]	19 gal	72 L
Swing Gear (See Operators Manual)	20 lb	9 kg
Swing Gearbox [J]	3.4 qt	3.2 L
Transmission [J]	5.3 qt	5.0 L
Front Axle Case [J]	6.4 qt	6.0 L
Rear Axle Case [J]	9.0 qt	8.5 L
Hub Reduction Case (Each) [J]	1.6 qt	1.5 L

PNEUMATIC SYSTEM

Governor Cut-In Pressure	94 psi (648 kPa)
Air System Priority Pressure Setting	46.4 psi (320 kPa)

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