

MANUFACTURER	John Deere
MODEL	5103
Official Test	
Nebraska Test Number	Nebr. OECD 1870 (March 2006)
Engine	
Manufacturer	John Deere
Aspiration	Turbocharged
Cylinders/Displacement, cu. in. (liters)	3/179 (2.9)
Cylinder Liners	Wet
Fuel Tank Cap., US Gal. (L) (Open; Cab)	---
Standard	19.0 (72.0)
Optional	---
Underhood muffler	Yes
Performance	
Advertised PTO HP (kW) @ Rated RPM	36 (26.34) @ 2400
Official PTO HP (kW) @ Rated RPM	---
@ Standard PTO @ Eng RPM	---
Maximum @ Eng RPM	---
Advertised Engine HP (kW) @ Rated Speed	45 (33.56) @ 2400
Max Unballast Drawbr HP (kW) @ Eng RPM	---
Maximum Torque (PTO) @ RPM, lb-ft (Nm)	---
Max Torque Rise (80% Rtd Spd) @ Eng RPM	---
Maximum Torque Rise % (PTO) @ Eng RPM	---
Fuel Use, U.S. gal./hr. & HP hr./gal. at:	
PTO @ Rated Eng RPM	2.94 (11.13) & 14.87 (2.93) @ 2399
Standard PTO Speed @ Eng Speed	---
Maximum PTO Power @ Eng RPM	2.85 (10.78) & 16.32 (3.21) @ 2150
Maximum Engine Power @ Eng RPM	2.94 (11.13) & 14.87 (2.93) @ 2399
Max Unballasted Drawbar Power @ Eng RPM	---
75% Load, Full Engine RPM (Unballasted)	---
75% Load @ Reduced RPM (Unballasted)	---
Transmission	
Std. Transmission; Forward/Reverse	9F/3R SyncReverser
Opt. Transmission; Forward/Reverse	9/3 SyncShuttle
Reverser	No
On-the-Go Shifting (Yes/No/Partial)	Partial (Yes Opt.)
Clutch; Wet/Dry	Dry
Creeper	---
Power Take-Off (PTO)	
Standard	Independent 540
Optional	---
PTO Speeds @ Engine RPM	---
PTO Actuation	Mechanical (lever)
Hydraulics	
Type	Open Center
Pump Rated Output, GPM (L/min.)	---
Standard	18.2 (68.8)
Optional	---
Rated Flow @ One SCV, GPM (L/min.)	---
Max Output @ SCV Couplers, GPM (L/min.)	---
Maximum Operating Pressure, PSI (kPa)	---
Maximum Hydraulic Power, HP (kW)	---
Hitch Draft Control Load Sense Type	Mechanical
Remote Control Valves Available	1 (2 opt.)
Hitch Category (SAE Designation)	2/1
Hitch Lift Cap. lb. (kg) @24" Bhd Lift Pt.	---
OECD	---
Standard	3,591 (1,629)
Optional	---

Hitch Lift Cap. lb. (kg) @24" Bhd Lift Pt. (SAE)	---
Standard	---
Optional	---
Hitch Lift Cap. lb. (kg) @24" Bhd Lift Pt. (ASAE)	---
Standard	---
Optional	---
Sensing Type	Top Link
Joystick SCV Control	Optional
Final Drive	
Type	Planetary
Differential Controls	Mechanical (Pedal)
Availability	---
Front	No
Front & Rear	No
Engage On-the-Go Rear Differential Lock	Yes
Axle Type	Flanged
Brakes, Type and Control	Mechanical Wet Disc
Operator Station	
Rollover Protective Structure, OOS	---
Rigid - Foldable - Telescopic	Foldable, 2-Post
Platform - Flat/Straddle	Straddle
Gearshift Location - Console/Floor	Floor
Cab	---
Doors	---
Platform - Flat/Straddle	---
dB(A) Rating	---
Seat Suspension System	---
2WD Dimensions	
Wheelbase, in. (mm)	80.7 (2,050)
Front Tread Range, in. (mm)	56.9 - 81.9 (1,447 - 2,082)
Rear Tread Range, in. (mm)	55.8 - 71.7 (1,417 - 1,821)
Minimum Rear Tread Setting, in. (mm)	55.8 (1,417)
Front Axle Clearance, in. (mm)	18.0 (457)
Turning Radius w/Brakes, ft. (m)	10.4 (3.18)
Turning Radius w/o Brakes, ft. (m)	11.5 (3.50)
Unballasted Operating Weight, lb. (kg)	---
Approx. Ship Wgt, lb. (kg) Open; Cab	4,634 (2,102); ---
MFWD Dimensions	
Wheelbase, in. (mm)	80.7 (2,050)
Front Tread Range, in. (mm)	---
Front Axle Clearance, in. (mm)	---
Turning Radius w/Brakes, ft. (m)	---
Turning Radius w/o Brakes, ft. (m)	---
Limited Slip Differential	---
Unballasted Operating Weight, lb. (kg)	---
Approx. Ship Wgt, lb. (kg) Open; Cab	---
4WD Dimensions	
Wheelbase, in. (mm)	---
Wheel Tread, Min. to Max. in. (mm)	---
Turning Radius w/o Brakes, ft. (m)	---
Nebraska Test Unballasted w/Duals, lb.(kg)	---
Unballasted Weight, lb. (kg)	5,031 (2,282)
Standard Tires	
2WD	---
Front	7.5 - 16
Rear	13.6 - 28
MFWD	---
Front	8.3 - 24
Rear	13.6 - 28
4WD	---
Track Widths	---
Miscellaneous	

MANUFACTURER	John Deere
MODEL	512 on 5103, 5203, 5303
Tractor	
Model	5103/5203/5303
Front Tire	7.5-16 6 PR R1
Rear Tire	13.6-28 6 PR R1
Wheelbase	---
Pump capacity, gpm	11.4
Rated pressure, psi	2828
Loader	
Bucket used	73-in. (1850 mm) Materials
Bucket weight, lb. (kg)	351 (159)
Lift capacity at full height, lb. (kg)	---
Measured at pivot (U)	2200 (1000)
Measured at 500 mm ahead of pivot (V)	---
Measured at 800 mm ahead of pivot (V)	1500 (682)
Lift capacity at 59-in. (1.5 m), lb. (kg)	---
Measured at pivot (W)	3043 (1380)
Measured at 500 mm ahead of pivot (X)	---
Measured at 800 mm ahead of pivot (X)	2161 (980)
Boom Breakout Force, lb. (kg)	---
Measured at pivot (Y)	4451 (2019)
Measured at 500 mm ahead of pivot (Z)	---
Measured at 800 mm ahead of pivot (Z)	2944 (1335)
Bucket Rollback Force capacity, lb. (kg)	---
At maximum height (VV)	2158 (979)
At 1.5 m (59-in.) lift height (XX)	---
At ground level line (ZZ)	3109 (1410)
Dimensions	
Maximum lift height, in. (mm) (A)	112 (2850)
Clearance	---
At full height - bucket level, in. (mm) (B)	102.5 (2605)
At full height - bucket dumped, in. (mm) (C)	84 (2140)
Overall length (I+F), ft. (m)	12.416 (3.79)
Overall height in carry position (J), ft. (m)	4.75 (1.442)
Digging depth, in. (mm) (H)	7 (180)
Reach	---
At max. height, in. (mm) (D)	24 (615)
At ground level - bucket level, in. (mm) (F)	68 (1730)
Bucket Angle	---
Dump angle, degrees (E)	43
Rollback angle, degrees (G)	30
Dump angle, ground	---
Cycle times	---
Loader raise, seconds	---
Loader lower, seconds	---
Bucket dump, seconds	---
Bucket rollback, seconds	---

Specifications are based on published information at the time of publication. Specifications are subject to change without notice. Contact your local John Deere dealer for more information.