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SPE	:C/F	ICAL	IONS

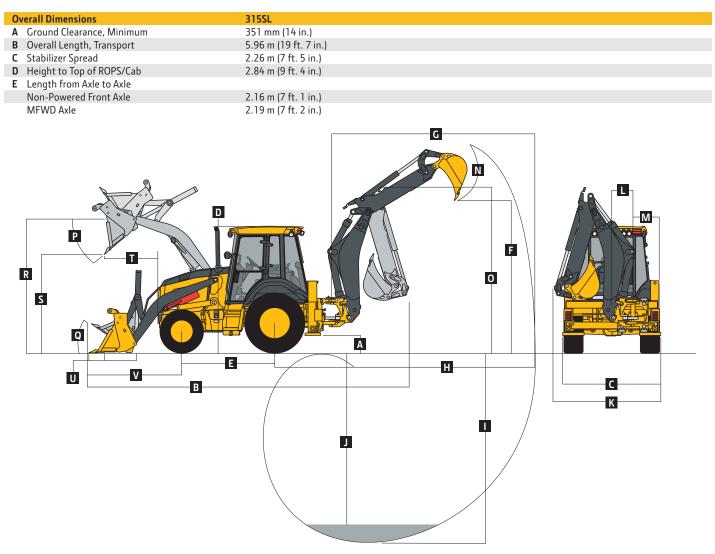
Engine	315SL				
Manufacturer and Model	John Deere PowerTech™ Plus 4045HT082 turbocharged				
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV				
Displacement	4.5 L (276 cu. in.)				
Net Peak Power (ISO 9249)	74 kW (99 hp) at 2,244 rpm				
Net Peak Torque (ISO 9249)	417 Nm (307 lbft.) at 1,400 r	pm			
Net Torque Rise	30%				
Lubrication	Pressure system with spin-on f	ilter and cooler			
Air Cleaner	Dual-stage dry type with safety	element and evacuator valve			
Cooling					
Fan Type	Electronically controlled, varial	ble-rate, suction-type cooling fan			
Engine Coolant Rating	-40 deg. C (-40 deg. F)				
Engine Oil Cooler	Oil to water				
Powertrain					
Transmission	5-speed, helical-cut gears, full	PowerShift [™] transmission with hydraulio	c reverser standard; electric clutch		
	cutoff on loader lever; AutoShi	ft transmission optional			
Torque Converter	Single stage, dual phase with 2	63:1 stall ratio, 280 mm (11 in.)			
Maximum Travel Speeds with Standard Engine,	5 5 .				
Measured with 16.9-28 Rear Tires	Forward	Reverse			
Gear 1	5.9 km/h (3.7 mph)	7.5 km/h (4.7 mph)			
Gear 2	10.8 km/h (6.7 mph)	13.6 km/h (8.5 mph)			
Gear 3	22.0 km/h (13.7 mph)	21.8 km/h (13.5 mph)			
Gear 4	36.6 km/h (22.7 mph)	_			
Gear 5	40.0 km/h (24.9 mph)	_	_		
Axles					
Axle Oscillation, Stop to Stop, Front Axle	22 deg.				
Axle Ratings	2	Mechanical-Front-Wheel Drive			
5	Non-Powered Front	(MFWD)	Rear		
SAE J43	5500 kg (12,125 lb.)	5500 kg (12,125 lb.)	7500 kg (16,535 lb.)		
Dynamic	8500 kg (18,739 lb.)	8500 kg (18,739 lb.)	10 000 kg (22,046 lb.)		
Static	22 500 kg (49,604 lb.)	23 500 kg (51,809 lb.)	26 000 kg (57,320 lb.)		
Ultimate	35 000 kg (77,162 lb.)	37 000 kg (81,571 lb.)	39 500 kg (87,083 lb.)		
Differentials	5	<u> </u>	5		
MFWD Axle	Automatic, limited-slip tractior	n control			
Rear Axle	Foot actuated, hydraulically engaged 100% mechanical lock				
Steering (ISO 5010)	Hydrostatic power steering and emergency steering				
Axle	Non-Powered Front	MFWD			
Curb-Turning Radius					
With Brakes	3.62 m (11 ft. 11 in.)	3.68 m (12 ft. 1 in.)			
Without Brakes	4.24 m (13 ft. 11 in.)	4.35 m (14 ft. 3 in.)			
Bucket-Clearance Circle		- , ,			
With Brakes	10.40 m (34 ft. 1 in.)	10.48 m (34 ft. 5 in.)			
Without Brakes	11.30 m (37 ft. 1 in.)	11.47 m (37 ft. 8 in.)			
Steering Wheel Turns (lock to lock)	3.2	2.7			
MFWD Axle	3.2 2.7 Heavy duty, outboard planetary final drives distribute shock loads over 3 gears				
Rear Axle	, , , , , , , , , , , , , , , , , , ,	y final drives distribute shock loads over	5		
Brakes (ISO 3450)		,			
Service	Power assisted bydraulic wot	lise mounted inhoard self-adjusting an	d self-equalizing		
Parking	Power assisted, hydraulic wet disc, mounted inboard, self-adjusting and self-equalizing Spring applied, hydraulically released, wet, multi-disc, independent of service brakes with electric switch control				
l arking	Spring applied, hydraulically fel	cased, wet, multi-uist, independent of se	INCE DIARES WILL ERCLITE SWITCH COUL		





Hydraulics	315SL		
Main Pump	Open center, gear type, tandem w	ith unloader	
Pump Flow at 2,200 rpm			
Backhoe	136 L/m (36 gpm)		
Loader	106 L/m (28 gpm)		
System Relief Pressure, Backhoe and Loader	24 993 kPa (3,625 psi)		
Controls	· · ·		
Backhoe	2-lever mechanical standard, pilot controls with pattern select and manual and/or electric auxiliary functions optional		
Loader	Single-lever control with electric clutch cutoff switch standard; manual auxiliary function (2nd lever), single- lever control with electric clutch cutoff switch, electrohydraulic (EH) proportional auxiliary roller, MWFD (momentary), and transmission guick-shift optional		
Electrical	(·····································		
Voltage	12 volt		
Alternator Rating	150 amp		
Lights			
5		2 rear reflectors; front drive lamps with 55/60-watt halogen, plate lamp,	
	reverse lamp, and front marker lamps; LED light field kits available with both flood- and spotlights		
Operator Station			
Type (SAE J1040)	Cab, isolation mounted, ROPS/FO	PS, left/right access, with molded roof	
Tires/Wheels			
	Front	Rear	
Non-Powered Front Axle	12.5/80-18 F3 (12)	19.5L-24 R4 (12)	
	12.5/80-18 F3 (12)	16.9L-28 R4 (12)	
With MFWD	12.5/80-18 3 (12)	19.5L-24 R4 (10)	
	12.5/80-18 R4 (10)	19.5L-24 R4 (12)	
	12.5/80-18 3 (12)	21L-24 R4 (12)	
	12.5/80-18 R4 (10)	21L-24 R4 (12)	
	12.5/80-18 R4 (10)	16.9L-28 R4 (12)	
	340/80R18 XMCL	500/70R24 XMCL	
	340/80R18 580	500/70R24 580	
Serviceability			
Refill Capacities			
Cooling System	35 L (37 qt.)		
Rear Axle	18 L (19 qt.)		
Engine Oil (including vertical spin-on filter)	13 L (13.7 qt.)		
Torque Converter and Transmission	15.1 L (16 qt.)		
Fuel Tank (with ground-level fueling)	140.1 L (37 gal.)		
Diesel Exhaust Fluid (DEF) Tank	16.3 L (4.3 gal.)		
Hydraulic System	104.1 L (27.5 gal.)		
Hydraulic Reservoir	45 L (11.9 gal.)		
MFWD Housing			
Axle	6.5 L (6.9 qt.)		
Planetary (each)	0.9 L (1 qt.)		
Hydrau™ XR Hydraulic Oil	Optional		
Operating Weights	70(2) (17 55/ 11)		
With Full Fuel Tank, 79-kg (175 lb.) Operator, Standard Equipment, and Bumper	7962 kg (17,554 lb.)		
Typical with Extendable Dipperstick and 204-kg	8389 kg (18,494 lb.)		
(450 lb.) Counterweight	0505 kg (10,454 lb.)		
Optional Components (weight difference between			
base equipment and option)			
MFWD with Tires	220 kg (485 lb.)		
Extendable Dipperstick	222 kg (490 lb.)		

315SL



Backhoe Dimensions and Performance				
Backhoe specifications are with 610-mm x 0.21-m ³ (24 in. x 7.5 cu. ft.) bucket; dipper lif	t specs are with a boom angle of 65	deg.	
Bucket Range	305–762 mm (12–30 in.)			
Digging Force				
Bucket Cylinder	55.0 kN (12,356 lb.)			
With Heavy-Duty Cylinder Option	67.8 kN (15,254 lb.)			
Crowd Cylinder	36.6 kN (8,231 lb.)			
Swing Arc	180 deg.			
Operator Control	2 levers			
With Optional Extendable Dipperstick		ck		
	With Standard Backhoe	Retracted	Extended	
F Loading Height, Truck Loading Position	3.57 m (11 ft. 8 in.)	3.69 m (12 ft. 1 in.)	4.31 m (14 ft. 2 in.)	
G Reach from Center of Swing Pivot	5.44 m (17 ft. 10 in.)	5.61 m (18 ft. 5 in.)	6.62 m (21 ft. 9 in.)	
H Reach from Center of Rear Axle	6.80 m (22 ft. 4 in.)	6.98 m (22 ft. 11 in.)	7.98 m (26 ft. 2 in.)	
I Digging Depth (SAE maximum)	4.17 m (13 ft. 8 in.)	4.34 m (14 ft. 3 in.)	5.39 m (17 ft. 8 in.)	
J Digging Depth (SAE)				
610-mm (2 ft.) Flat Bottom	4.13 m (13 ft. 6 in.)	4.30 m (14 ft. 1 in.)	5.35 m (17 ft. 7 in.)	
2440-mm (8 ft.) Flat Bottom	3.77 m (12 ft. 5 in.)	3.96 m (13 ft. 0 in.)	5.09 m (16 ft. 9 in.)	
K Overall Width (less loader bucket)	2.43 m (8 ft. 0 in.)	2.41 m (7 ft. 11 in.)	—	
L Side-Shift from Tractor Centerline	537 mm (21 in.)	537 mm (21 in.)	537 mm (21 in.)	
M Wall to Swing Centerline	604 mm (24 in.)	604 mm (24 in.)	604 mm (24 in.)	
N Bucket Rotation	190 deg.	190 deg.	190 deg.	
0 Transport Height	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)	

315SL

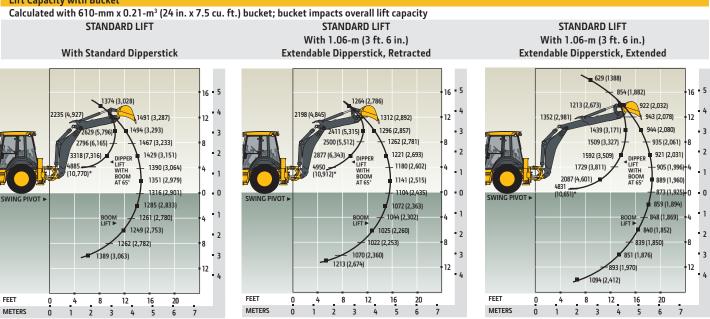
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Loader Dimensions and Performance	315SL			
P Bucket Dump Angle, Maximum	45 deg.			
Q Rollback Angle at Ground Level	40 deg.			
	Heavy-duty	Heavy-duty	Multipurpose	Multipurpose
Bucket Capacity	0.77 m³ (1.00 cu. yd.)	1.00 m³ (1.31 cu. yd.)	0.96 m ³ (1.25 cu. yd.)	1.00 m ³ (1.31 cu. yd.)
Width	2184 mm (86 in.)	2337 mm (92 in.)	2184 mm (86 in.)	2337 mm (92 in.)
Weight	363 kg (800 lb.)	521 kg (1,148 lb.)	794 kg (1,750 lb.)	863 kg (1,902 lb.)
Breakout Force	48.3 kN (10,866 lb.)	46.8 kN (10,532 lb.)	43.5 kN (9,789 lb.)	43.2 kN (9,714 lb.)
Lift Capacity, Full Height	3375 kg (7,440 lb.)	3322 kg (7,324 lb.)	2875 kg (6,338 lb.)	2834 kg (6,248 lb.)
R Height to Bucket Hinge Pin, Maximum	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
S Dump Clearance, Bucket at 45 deg.	2.71 m (8 ft. 11 in.)	2.68 m (8 ft. 10 in.)	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)
T Reach at Full Height, Bucket at 45 deg.	734 mm (28.9 in.)	695 mm (27.4 in.)	737 mm (29.0 in.)	737 mm (29.0 in.)
U Digging Depth Below Ground, Bucket Level	106 mm (4.2 in.)	151 mm (5.9 in.)	147 mm (5.8 in.)	147 mm (5.8 in.)
V Length from Front Axle Centerline to Bucket	2.02 m (6 ft. 8 in.)	2.04 m (6 ft. 8 in.)	2.09 m (6 ft. 10 in.)	2.09 m (6 ft. 10 in.)
Cutting Edge				
Lift Capacity with Quick-Coupler Forks				
Hydraulic Capacity	1219-mm (48 in.) Tines	1524-mm (60 in.) Tines		
A ^I Maximum Height	2073 kg (4,570 lb.)	1891 kg (4,170 lb.)		
B ¹ Maximum Reach	3162 kg (6,971 lb.)	3003 kg (6,621 lb.)		
C ^I At Ground Line	4145 kg (9,138 lb.)	3883 kg (8,561 lb.)		
D ¹ Below Ground Line	211 mm (8.3 in.)	211 mm (8.3 in.)		



Lift Capacity with Bucket

METERS

*Indicates capacity is stability limited. Lift capacities are over end with stabilizers down and tires tangent to ground.

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