ENGINE

John Deere engineered and manufactured 4-cylinder turbocharged diesel engine. Replaceable wet-type cylinder liners help ensure superior heat dissipation, longer engine life. High-strength alloy head includes replaceable valve seat inserts. High torque rise helps provide fast engine recovery when working in tough operating conditions.

Engine: John Deere 4045T w/altitude compensating turbocharger Rated power at 2,100 rpm70 SAE net hp (52 kW)
73 SAE gross hp (54.5 kW)
Cylinders4
Displacement
Fuel consumption, typical 1.5 to 2.3 gal./hr. (4.9 to 8.7 L/h)
Maximum net torque at 1,300 rpm228 lbft. (309 Nm)
Lubricationpressure system with spin-on filter and cooler
Air cleanerdual stage dry type with safety
element and precleaner
Electrical system12 volt with 95-amp sealed alternator
Cooling fanblower
9

TRANSMISSION

Full power shift, Dura-Shift with torque converter or direct drive transmission is designed and built by John Deere. Four speeds forward and reverse allow the operator to match speeds to all working conditions. Power shift design and decelerator allow smooth gear changes without stopping the machine or using a clutch.

MAXIMUM TRAVEL SPEEDS

	455G TC		455	G DD
	mph	(km/h)	mph	(km/h)
1st Forward	2.3	3.7	1.1	1.8
2nd Forward	3.3	5.3	1.9	3.1
3rd Forward	4.1	6.6	2.9	4.7
4th Forward	5.9	9.5	4.9	7.9
1st Reverse	2.5	4.0	1.3	2.1
2nd Reverse	3.6	5.8	2.1	3.4
3rd Reverse	4.5	7.2	3.2	5.2
4th Reverse	6.4	10.3	5.4	8.7

FINAL DRIVES

Large heavy-duty single reduction final drive assemblies help ensure long service life. To keep final drives from being adversely affected by shock loads, they are attached directly to the transverse case, and are isolated from the track frame.

STEERING/BRAKES

Oil-cooled and modulated steering system provides excellent durability and steering control. Multiple wet-disk steering clutches and wet-band steering brakes are pressure lubricated and provide long-term service life. They are located at the rear of the machine and can be serviced easily.

AUTOMATIC PARK BRAKE

This exclusive safety feature engages whenever the engine stops. The operator cannot drive the machine with the park brake engaged, which eliminates brake damage.

HYDRAULICS

System	open center
Control	single lever
Pressure, main relief	
Pump	gear
Flow at 2,100 rpm	31 gpm (118 L/min.)
Filter, return oil	10 micron, spin-on enclosed
	replaceable element

CYLINDERS

Cylinders: ground, heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins

В	ore	Str	oke	R	od
in.	(mm)	in.	(mm)	in.	(mm)
Boom, two3.93	100	32.55	827	1.96	50
Bucket, two3.50	90	29.30	744	1.96	50

UNDERCARRIAGE

John Deere Dura-TraxTM undercarriage features large deepheat-treated components for exceptional wear. Pins and bushings are sealed for life. Sealed and lubricated chain is available. Rollers and idlers are permanently lubricated. All 455G Loaders have track frame covers that substantially reduce dirt buildup and make cleanout easier.

Chain pitch	6 29 in (159 8 mm)
Bushing diameter, sealed	2.01 in (51.0 mm)
Bushing diameter, sealed and lub	ped 2.12 in (53.8 mm)
Link height	3 54 in (90.0 mm)
Track roller diameter	7 19 in (182.6 mm)
Carrier roller diameter	6 in (152.5 mm)
Standard Track	
	14 in. (356 mm)
	37
Ground contact area	2,128 sq. in. (13 729 cm ²)
	8.81 psi (60.7 kPa)
	8.71 psi (60.1 kPa)
	76 in. (1930 mm)
Carrier roller	57 in. (1450 mm)
	5
Adjustment	hydraulic with hinged dirt cover.
Overall track width	71 in. (1803 mm)
Wide Track	/1 III. (1605 IIIII)
	21 in (EZZ mm)
Track chaos, each side	21 in. (533 mm)
Cround contact area	37 3,192 sq. in. (20 595 cm²)
Ground prossure AFFC TC	5,192 Sq. III. (20 595 CIII²)
Ground pressure, 455G TC	6.12 psi (42.2 kPa)
455G DD	6.06 psi (41.8 kPa)
Length of track on ground	76 in. (1930 mm)
	68 in. (1727 mm)
	1
	5
Adjustment	hydraulic with hinged dirt cover
Overall track width	89 in. (2261 mm)

CAPACITIES

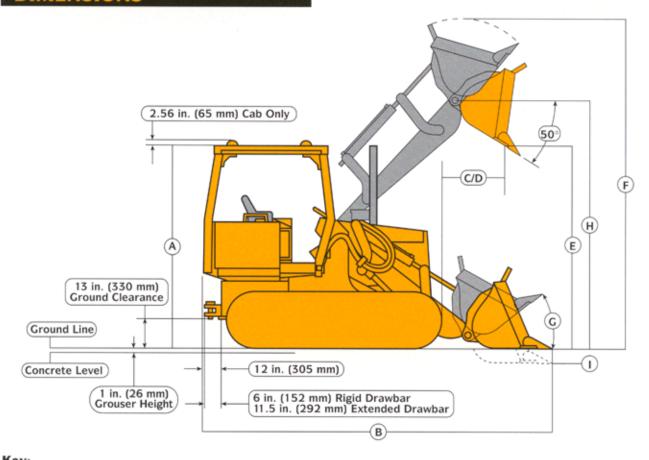
Fuel tank with lockable cap41 gal. (155.2 L)
Cooling system with coolant recovery tank 18 gt. (17.0 L)
Engine oil including spin-on filter
455GTC Transmission including spin-on filter27 gal. (102 L)
455GDD Transmission Including spin-on filter27 gal. (102 L)
Final drive (each)
Hydraulic reservoir
Hydraulic system including spin-on filter18 gal. (68.1 L)
All capacities are for 455TC unless otherwise noted. All power train and hydraulic sys-

OPERATING WEIGHT

455G with standard equipment:

455G TC	455G DD
Standard track 18,745 lb. (8503 Wide track 19,545 lb. (8866	

DIMENSIONS



Key:			
Bucket Type	Standard	Wide-Track	Multipurpose
Capacity		1.3 cu. yd.	1.3 cu. yd.
	(1.0 m^3)	(1.0 m^3)	(1.0 m^3)
A. Overall height			
Standard height ROPS	106.6 in.	106.6 in.	106.6 in.
	(2708 mm)	(2708 mm)	(2708 mm)
Low profile ROPS	101.9 in.	101.9 in.	101.9 in.
	(2588 mm)	(2588 mm)	(2588 mm)
Cab	109.0 in.	109.0 in.	109.0 in.
	(2769 mm)	(2769 mm)	(2769 mm)
B. Overall length	179.7 in.	175.1 in.	182.6 in.
	(4564 mm)	(4448 mm)	(4638 mm)
C. Reach at maximum height (45° discharge)	34.3 in.	30.4 in.	34.6 in.
	(871 mm)	(773 mm)	(880 mm)
D. Reach at 7 ft. (2.13 m) clearance (45° discharge)	49.8 in.	46.3 in.	46.6 in.
· ·	(1265 mm)	(1176 mm)	(1185 mm)
E. Dump clearance, maximum height (45° discharge)	103.1 in.	103.7 in.	97.8 in.
	(2620 mm)	(2635 mm)	(2485 mm)
F. Maximum operating height	168.7 in.	164.1 in.	169.4 in.
	(4285 mm)	(4169 mm)	(4304 mm)
G. Rollback angle			
Concrete level	40 degrees	36 degrees	40 degrees
Carry position	47 degrees	45 degrees	46 degrees
H. Height to hinge pin	128 in.	128 in.	128 in.
	(3251 mm)	(3251 mm)	(3251 mm)
I. Digging depth		5.3 in.	5.3 in.
	(135 mm)	(135 mm)	(135 mm)
		-	-

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 torque converter transmission, standard height rollover protective structure (ROPS), full fuel tank, 1.30 yd.³ (1.0 m³) general purpose bucket with eight teeth, sprocket counterweights, two 300 lb. (136 kg) rear counterweights, 14 in. (356 mm) track shoes with standard track, 175 lb. (79 kg) operator, and standard equipment.

455G LOADER OPERATING INFORMATION					
		General Purpose		Multipurpose	
Bucket Type		Standard	Wide Track	Standard	Wide Track
Capacity, heaped, SAE	cu. yd.	1.30	1.30	1.30	1.30
	m³	1.00	1.00	1.00	1.00
Capacity, struck, SAE	cu. yd.	1.05	1.03	1.05	1.05
	m³	0.80	0.79	0.80	0.80
Bucket width	in.	77.7	94.4	77.7	96.0
	m	1.97	2.40	1.97	2.44
Bucket weight, including eight bolt-on teeth	lb.	1,053	1,204	2,180	2,180
	kg	477	546	989	989
Breakout force, SAE	lb.	15,735	17,600	13,400	13,400
	kN	70	78.3	59.6	59.6
Tipping load, SAE	lb.	11,800	12,350	11,200	11,200
	kg	5350	5600	5075	5075
Raising time	sec.	6.5	6.5	6.6	6.6
Dumping time	sec.	1.5	1.5	1.5	1.5
Lowering time	sec.	2.7	2.7	2.3	2.3
SAE operating weight with standard height ROPS	lb.	18,745	19,545	20,475	20,475
	kg	8503	8866	9287	9287
SAE operating weight with ROPS cab	lb.	19,415	20,245	21,109	21,109
	kg	8807	9183	9575	9575
Minimum recommended rear counter-	lb.	600	900	1,200	1,200
weight or attachments	kg	272	408	544	544
Sprocket counterweights	lb. kg	564 256 Standard Equipment	564 256 Optional	564 256 Standard Equipment	564 256 Optional

Adjustments to operating weights and tipping load for 1.30 cu. yd. (1.00 m³) general purpose bucket

Add (+) or deduct (-) lb. (kg) as indicated for loaders with:		Operating Weight	Tipping Load
Cab	lb.	+ 676	+ 500
	kg	+ 306	+ 227
Low profile ROPS	lb.	+ 240	+ 177
	kg	+ 109	+ 80
Bucket teeth, bolt-on (eight)	lb.	- 139	+ 185
	kg	- 63	+ 84
Radial ripper with three teeth (w/o drawbar or rear counterweights)	lb.	+ 742	+ 1,020
	kg	+ 336	+ 463
Parallelogram ripper with three teeth (w/o drawbar or rear counterweights)	lb.	+ 708	+ 1,231
	kg	+ 321	+ 558
Rear counterweights, five max., 300 lb. (136 kg) each	lb.	+ 300	+ 500
	kg	+ 136	+ 226