

## **SPECIFICATIONS**

ENGINE Flywhoel bersepower (observed)	Diesel 57.0	Gasoline 57.0
Maximum torque (ft-lbs) at 1300		
rpom (observed) (nominal),	145.0	145.0
Number of cylinders	4	4
Bore and stroke (inches),	3,86 x 4,33	$3.86 \times 3.86$
Displacement in cubic inches	202.0	180,0
Compression ratio	16.7 to 1	7.5 to 1
rating for tax purposes	23.04	23,64
Intake valve clearance	0.014	0.014
Exhaust valve clearance	0.018	0.022
lidle for engine shut off (rpm),		375
Normal slow-tdle (rpm)	800	800
Fast-title (rpm)	2650	2770
Working speed range (rpm)	1500-	1500-
	2500	2500
Engine clutch: 11-inch, spring-lo	saded disk, fo	ot operated.
ELECTRICAL SYSTEM		
Battery voltage (nominal)		12 volta
Battery specific gravity at full		
charge (corrected to 80° F.)	1.260 (pi	us or minus
Battery terminal grounded		. negative
Alternator regulation	wolta	ge regulator
IGNITION SYSTEM (Gasoline)		4
Type		disetes fixuation
Distributor point gap	0.000-1	med by
Spark Plugs		
Size		
Gap	0.025-1	neh
CAPACITIES (U.S. Standard Meas		
Fuel tank		. 21 gal.
Cooling system	and the second second	. 4 gal.
Engine lubrication (including filter		
Fransmission case		. 8 gale.
Final drive case (each)		7 ots.
Loader hydraulic system (includio	g reservoir)	13 gals.
THE A SECRETARISHMENT OF STREET		

TRANSMISSION

High, low, and reverse gears grouped to shift (under full load with a hydraulic assist) in series with 4 shift stations to give 8 forward speeds and 4 reverse speeds.

TRAVEL SPEEDS, MPH (No Stip)

Range	Engine	Engine Speed	
	1500 rpm	2500 rpm	
No. 1			
Ht Gear	1.1	1.6	
Lo Gear		1.3	
Bev. Gear	1.0	1.7	
No. 2	100		
Ht Gear	1.7	2.8	
Lo Gear	1.2	2.0	
Rev. Gear	1.6	2.7	
No. 3		0.00	
His Gear	2.6	4.3	
Lo Gear	1.8	3.0	
Bev. Gear	2.5	4.1	
No. 4		100	
Ht Gear	4.0	6.7	
Lo Gear	2.6	4.7	
Bev. Gear	3.6	6.4	

WINCH

Drum speed (at 2200 rpm engine speed) !	58-1/2 rum
Drum diameter	6 in.
Drum capacities: *	
(with 1/2-inch cable)	185 ft.
(with 5/8-inch cable)	17 18 m.
(with 3/4-inch cable)	90 m.
Cable speed (at 2200 rpm engine speed with	
5/8-inch cable)	7.75
(with bare drum)	. 100 fpcm
(with full drum)	. 159 Open
Cable pull (at 2200 rpm engine speed)	
(with bare drum)	15,000 lbs.
(with full drum)	9,600 lbs.

"Calculated capacities - allowance must be made for loose or uneven spooling.



JD450 Crawler Lunder

# John Deere 450 Crawler Loader Service Manual

**S Nieto** 

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