



CASE

W11B Loader



66(49 kW) SAE NET FLYWHEEL HORSEPOWER

Case 239 in³ (3.92 liters) diesel engine

FULL POWERSHIFT TRANSMISSION

Three speeds forward, three reverse

MODULATED TRANSMISSION

On-the-go directional changes without decelerating or braking; keeps engine speed up, hydraulics cycling fast for added productivity

IN-LINE LOADER LINKAGE

Low profile design. All linkage in line with the loader lift arms for good visibility to bucket work area

FRONT MOUNTED

OPERATOR'S COMPARTMENT

Visibility, controllability, serviceability, comfort and noise reduction

LONG 92" (2.34 m) WHEELBASE PLUS

40° ARTICULATION

Combines operational stability and balance with short turning radius

CENTER-PIVOT STEER

Allows rear and front tires to track at all times

INTEGRATED HYDRAULICS

Provides power on demand for loader-steering-braking; more efficient use of hp available

Unit shown is equipped with non-standard items.

J I Case

A Tenneco Company

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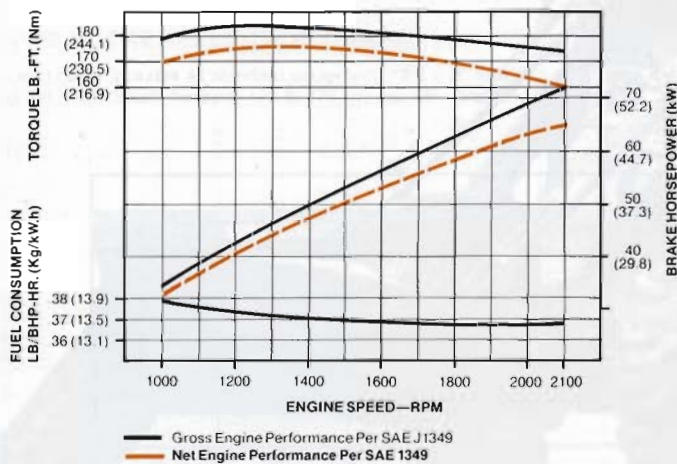


W11B SPECIFICATIONS

ENGINE

Make and model	Case 4-390
Fuel	diesel
Maximum rated horsepower	
(1) Gross	.71 @ 2100 rpm (53 kW @ 2100 r/min)
(2) SAE net	.66 @ 2100 rpm (49 kW @ 2100 r/min)
Torque, maximum, lbs.-ft.	
Gross	181 ft-lbs @ 1200 rpm (245.4 Nm @ 1200 r/min)
Net	178 ft-lbs @ 1200 rpm (241.3 Nm @ 1200 r/min)
Cylinders, number (valve in head)	4
Bore and stroke	4.02" x 4.72" (102 mm x 120 mm)
Displacement	239 in ³ (3.92 liters)
Air cleaner (with service indicator)	Two element, dry type
Oil filter	full-flow type
(1) Manufacturer's rating of maximum engine horsepower at flywheel per SAE J1349.	
(2) SAE net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories per SAE J1349.	

POWER CURVE



ELECTRICAL SYSTEM

Voltage	12 volt
Standard alternator	42 amp
Batteries	(1) 12 volt
System protected by circuit breakers.	

TRAVEL SPEEDS*

	1st		2nd		3rd	
	mph	km/h	mph	km/h	mph	km/h
Forward	3.6	5.8	9.2	14.8	22.3	35.9
Reverse	3.6	5.8	9.2	14.8	22.3	35.9

*With either 15.00 x 19.5 or 12.5 x 20 tires

TRANSMISSION

Three speeds forward, three speeds reverse, powershift. Dual lever control.

TORQUE CONVERTER

Single stage integral with transmission 2.81 to 1 stall ratio.

AXLES (front and rear)

Front axle fixed. Rear axle oscillates up or down 12°, 24° total oscillation. One wheel can drop 11.5" (292 mm) with all wheels remaining on the ground for maximum traction. Axle shafts may be removed without disturbing the wheels.

DIFFERENTIALS

Torque proportioning differentials, front and rear for maximum traction.

BRAKES

Hydraulic, power assisted, internal-expanding, mounted on the front wheels. Mechanical parking brake on transmission output shaft. Warning buzzer indicates when parking brake engaged. Optional four-wheel brakes available.

STEERING

Center pivot articulated design with hydrostatic power steering. Front and rear wheels always track.

Steering angle—each direction from center	40°
Steering cylinder	3" dia x 12.17" stroke (76 mm dia x 309 mm stroke)

Turning circle, outside tires

12.5 x 20	26'11" (8.20 m)
15.00 x 19.5	27'4" (8.33 m)

LOADER HYDRAULIC SYSTEM

Cylinders: Double-acting with hardened, chrome-plated rods to increase strength and resist corrosion.

Lift (2)	3.5" dia x 28.5" stroke (89 mm dia x 724 mm stroke)
Bucket (2)	2.5" dia x 33.56" stroke (63.5 mm dia x 852 mm stroke)

Pump: Dual tandem, gear-type, engine driven, transmission mounted.

Capacities:

Total pumps	26 gpm @ 2100 rpm @ 2500 psi (98.4 lit/min @ 2100 r/min @ 17 237 kPa)
Primary pump	15 gpm @ 2100 rpm @ 2500 psi (56.8 lit/min @ 2100 r/min @ 17 237 kPa)
Secondary pump	11 gpm @ 2100 rpm @ 2500 psi (41.6 lit/min @ 2100 r/min @ 17 237 kPa)

Control valve: Open-center, series parallel circuit.

Hydraulic lines: Steel tubing with steel fittings and wire-braid, high-pressure hose with swaged fittings.

Reservoir: Filtered vacuum, pressurized, with relief valve. All hydraulic oil passes through one 10 micron filter, furnishing clean oil to all components of the hydraulic system.

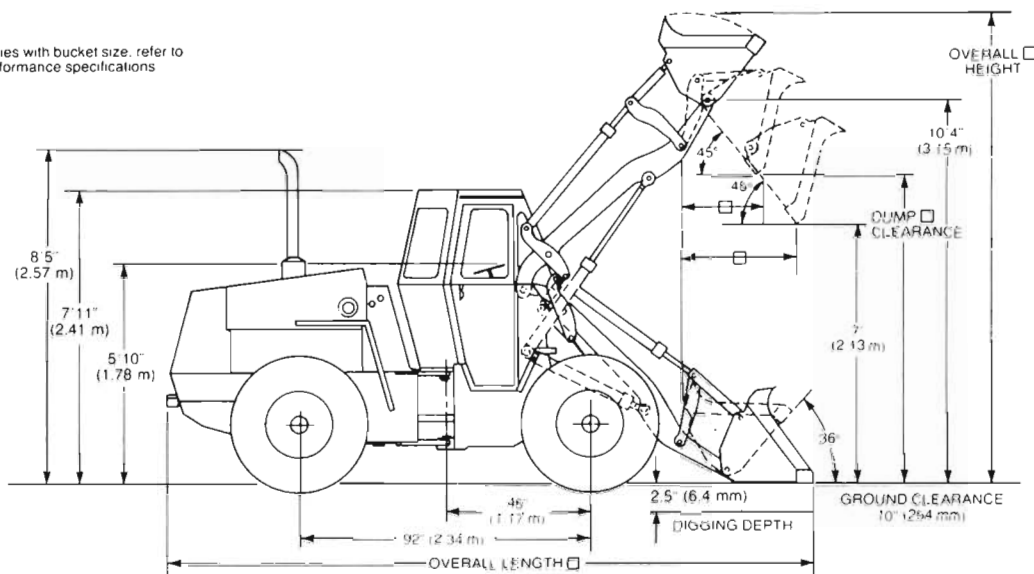
Hydraulic cycle time:

Rated load in bucket	Seconds
Raise	5.2
Lower	5.3
Dump	1.9
Total	12.4

SERVICE CAPACITIES

	U.S. Gals	Litres
Fuel tank	28.0	106
Hydraulic system (tank only)	10.0	37.6
Hydraulic system (total)	14.0	53
Transmission and torque converter	14.0 qt	13.25
Transmission refill capacity	13.0 qt	12.30
Engine crankcase w/filter	11.6 qt	10.98
Differentials, each	13.5 qt	12.50
Cooling system	5.0	18.93

☐ Varies with bucket size, refer to performance specifications



PERFORMANCE SPECIFICATIONS — Loader ratings are governed by SAE J732C and J742B

BUCKET TYPE - Capacity	GENERAL PURPOSE		4-in-1*
	.75 yd ³ (.57 m ³)	1.0 yd ³ (.76 m ³)	1.0 yd ³ (.76 m ³)
SAE Rated (nominally heaped)	.67 yd ³ (.51 m ³)	.87 yd ³ (.67 m ³)	.83 yd ³ (.63 m ³)
Struck	71.2" (1.81 m)	81.5" (2.07 m)	82.8" (2.10 m)
Cutting edge width	536 lbs (243 kg)	668 lbs (303 kg)	1145 lbs (519 kg)
Weight	8'8" (2.64 m)	8'6" (2.59 m)	8'7" (2.62 m)
Dump Clearance @ 45° Dump — Full Height	2'11" (.89 m)	3' (.91 m)	3'4" (1.02 m)
Bucket Reach @ Full Height & 45° Dump	4'2" (1.27 m)	4'3" (1.30 m)	4'5" (1.35 m)
Bucket Reach @ 7' (2.13 m) Clearance & 45° Dump	29'6" (8.99 m)	30'5" (9.27 m)	30'6" (9.30 m)
Loader Clearance Circle — Bucket in Carry Position	17'2" (5.23 m)	17'4" (5.28 m)	17'4" (5.28 m)
Overall Length	13'1" (3.99 m)	13'3" (4.04 m)	13'2" (4.01 m)
Overall Height	11,007 (4993 kg)	10,046 (4557 kg)	9,801 (4456 kg)
SAE Breakout Force, lbs	8,913 (4043 kg)	9,093 (4125 kg)	8,576 (3890 kg)
SAE Tipping Load, Straight, lbs**	7,958 (3610 kg)	8,121 (3684 kg)	7,614 (3454 kg)
35° Turn	7,681 (3484 kg)	7,836 (3554 kg)	7,332 (3326 kg)
40° Turn	3,841 (1742 kg)	3,918 (1777 kg)	3,666 (1663 kg)
Operating Load, lbs**	3,200 (1452 kg)	3,200 (1452 kg)	3,200 (1452 kg)
Maximum Rated Load, lbs***	8,580 (3892 kg)	8,466 (3840 kg)	8,007 (3632 kg)
Hydraulic Lifting Capacity @ Full Height, lbs	11,322 (5136 kg)	11,824 (5363 kg)	12,321 (5589 kg)
SAE Operating Weight, lbs**			

** For select items, add to or deduct from the machine operating weight and tipping loads as given in the chart below. All dimensions and specifications based upon unit with 12.5 x 20 tires, 75 yd³ (.57 m³) bucket with 364 lbs (165 kg) CaCl₂ solution in rear tires or 15.00 x 19.5 tires 1.0 yd³ (.76 m³) bucket with 588 lbs (267 kg) CaCl₂ solution in rear tires. ROPS cab, fenders, counterweight, rear brakes, engine side panels, suspension seat, dual batteries, fully serviced, and with 175 lb. (79.4 kg) operator.
 *** Continuous loads exceeding specified rated load can affect service life of machine.

Selected Items

Operating Weight Adjustments

Tipping Load Adjustments

	Operating Weight Adjustments		Tipping Load Adjustments					
	lbs	kg	Straight		35° Turn		40° Turn	
			lbs	kg	lbs	kg	lbs	kg
W/ROPS Canopy	-300	-136	-165	-75	-163	-74	-162	-73
Without Fenders	-134	-61	-101	-46	-96	-44	-96	-44
Without Counterweight	-950	-431	-1661	-753	-1448	-657	-1386	-629
Without Rear Brakes	-225	-102	-296	-134	-266	-121	-257	-117
Without Engine Side Panels	-36	-16	-47	-21	-41	-19	-41	-19
Without Suspension Seat	-90	-41	-49	-22	-49	-22	-49	-22
Without Dual Batteries	-67	-30	-121	-55	-106	-48	-101	-46
W/Cab Heater	+25	+11	+22	+10	+22	+10	+22	+10
W/Auxiliary Steering	+50	+23	+65	+30	+59	+27	+57	+26
W/Lift & Tie Down Brackets	+30	+14	+21	+10	+21	+10	+21	+10
W/Cylinder Guards	-75	+34	-12	-5	-12	-5	-12	-5
W/.75 yd ³ (.57 m ³) Bucket Teeth	+51	+23	-63	-29	-63	-29	-63	-29
W/1.0 yd ³ (.76 m ³) Bucket Teeth	+60	+27	-73	-33	-73	-33	-73	-33
For .75 yd ³ (.57 m ³) Tractor								
12.5 x 20, XLT	-426	-193	-567	-257	-506	-230	-490	-222
12.5 x 20, XLT w/75% CaCl ₂	0	0	0	0	0	0	0	0
For 1.0 yd ³ (.76 m ³) Tractor								
15.00 x 19.5, L2, 8 PR	-588	-267	-775	-352	-695	-315	-671	-304
15.00 x 19.5, L2, 8 PR W/75% CaCl ₂	0	0	0	0	0	0	0	0

OPERATING DIMENSIONS

Tire Options

	12x5 x 20 XLT Michelin	15.00 x 19.5 Loader L-2
Tread	57.5" (1.46 m)	60" (1.52 m)
Width over tires	70.5" (1.79 m)	76" (1.93 m)
Change in vertical and horizontal dimensions	None	None

EQUIPMENT ATTACHMENTS

4-IN-1 BUCKET SPECIFICATIONS

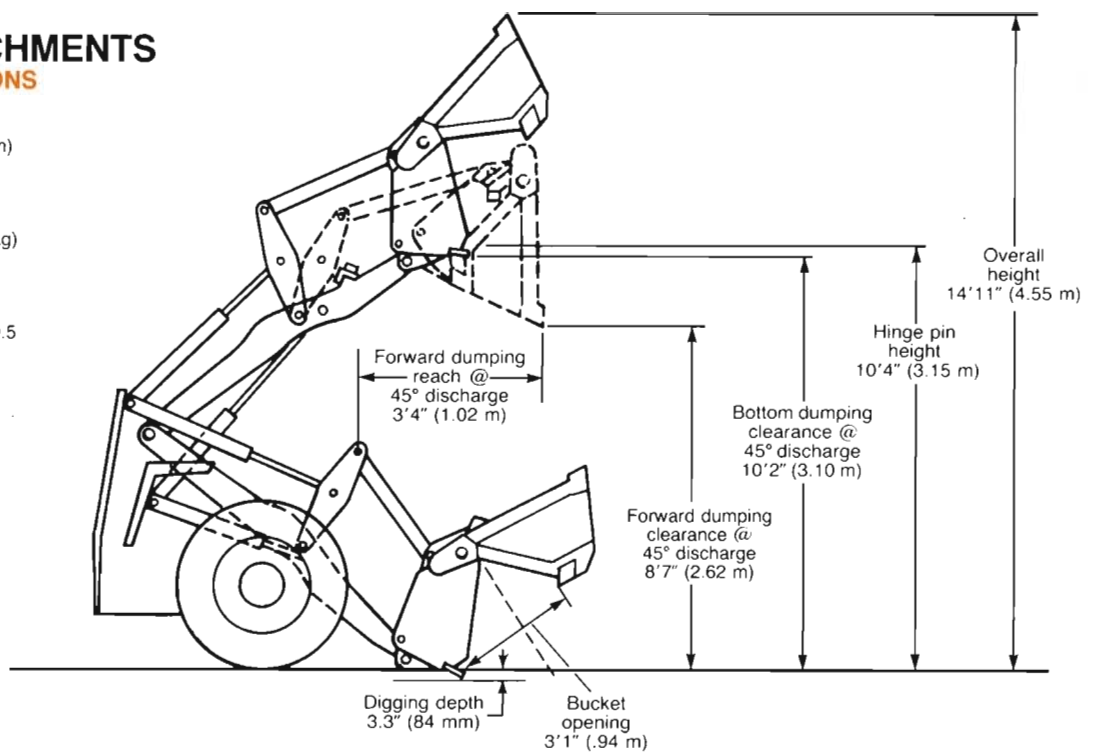
Reach @ 45° dump angle, 7'0"
(2.13 m) clearance, 4'5" (1.35 m)

Tilt back @ ground level, 38°

Closure force, clamp to
cutting edge, 8,130 lbs. (3688 kg)

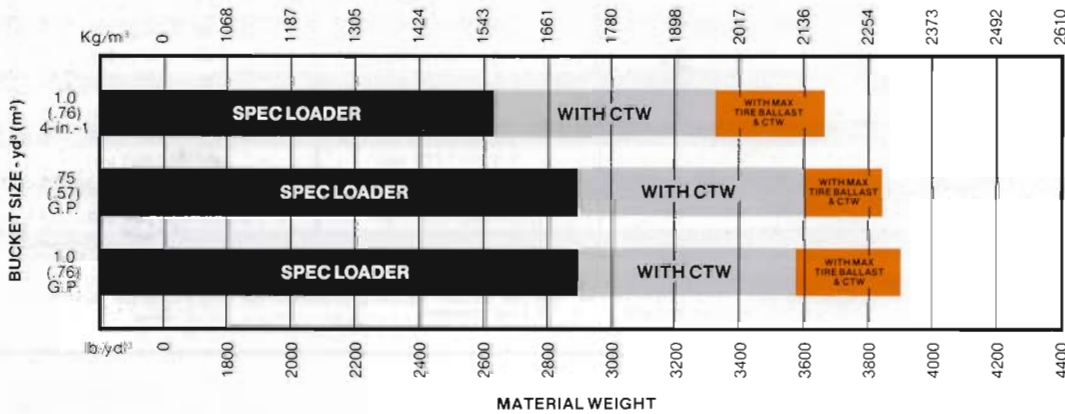
Weight, 1145 lbs (519 kg)

NOTE: SAE code adhered to, 15.00 x 19.5
L2, 8PR tires used.



W11B BUCKET SELECTION CHART

Spec Loader includes all standard equipment, 12.5 x 20 tires (.75 yd³, .57 m³ bucket) or 15.00 x 19.5 tires (1.0 yd³, .76 m³ bucket), ROPS cab, fenders, 175 lb. (79 kg) operator, and fully serviced.



MATERIAL	lb-yd ³	kg/m ³
Sand, wet	3500	2075
Sand & Gravel, wet	3375	2000
Gravel, wet, 1/2" x 2"	3375	2000
Sand, slightly damp	3240	1920
Gravel, pit run (graveled sand)	3240	1920
Clay & gravel, wet	3085	1830
Slag, broken	2970	1760
Trap rock, broken	2950	1750
Sand & gravel, dry	2916	1730
Earth, soft loose mud	2916	1730
Gravel, dry, 1/4" x 2"	2835	1680
Granite, broken or crushed	2778	1645
Stone, crushed	2700	1600
Sand, dry loose	2700	1600
Gypsum, crushed	2700	1600
Gravel, sand & clay, loose	2700	1600
Earth, wet excavated	2700	1600
Clay & gravel, dry	2700	1600
Clay, wet lumps	2700	1600
Limestone, broken or crushed	2625	1555
Gravel, loose dry	2355	1520
Sandstone, broken	2550	1510
Earth, moist excavated	2430	1440
Earth, loam, dry excavated	2100	1245
Coal, anthracite, broken	1857	1100
Clay, dry excavated	1847	1095
Clay, dry lumps	1822	1080
Coal, bituminous, broken	1413	840
Garbage, wet	1350	801
Ashes	1100	653
Slag	865	513
Snow, wet	400	237
Snow, dry	150	89
	400	237

Bucket recommendations shown above are based on normal materials and average operating conditions. When selecting the proper bucket for a specific application other factors, such as loadability, material characteristics, terrain and other pertinent job conditions must also be considered.

STANDARD EQUIPMENT

ROPS canopy with seat belt. Alternator with voltage regulator. Battery. 12 volt start. Front and rear flood lights. Tail light and stop light. Pusher fan. Dual element, dry-type air cleaner. Electric horn. Powershift transmission. Hydraulic power assisted brakes. Parking brake. Hydrostatic power steering. Alternator warning light, engine oil pressure warning light, engine water temperature gauge, converter oil temperature gauge, clutch pressure warning light, fuel gauge, parking brake warning buzzer and tachometer. Drawbar. Torque proportioning front and rear axles.

OPTIONAL EQUIPMENT

ROPS cab with air pressurization and sound suppression with seat belt and defogger. Buckets. Engine side panels. Fenders. Heater (36,000 BTU/hr.) Cold weather starting equipment. Lockup kit. Turn signals. Additional driving lights. Automatic adjustable bucket height kickout. Automatic return-to-dig mechanism. Suspension seat. Spark arresting muffler. Back-up alarm. Auxiliary steering. High intensity strobe. Cylinder guards. Four wheel brakes. Precleaner. Windshield wipers, rear. Dual batteries, bucket teeth, lift & tie down brackets, counterweight, special paint.

Form No. UD98783

NOTE: All specifications are stated in accordance with ICED Definitions or SAE Standards or Recommended Practices, where applicable.

IMPORTANT

J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such change.

Sold and Serviced by: