

ENGINE

Model	Case 434T/E, Tier 4 Interim Emission Certified
Type	Diesel 4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Biodiesel	Approved for B5
Cooling	Charged air
Engine speeds*	RPM
Rated speed – full load	2200
Low idle	875 – 1025
High idle – no load	2300 – 2450
Horsepower @ 2200 RPM:	
Gross	85 hp (63 kW)
Net	78 hp (58 kW)
Maximum torque @ 1400 RPM:	
Gross	276 lb-ft (374 N-m)
Net	268 lb-ft (364 N-m)
Torque rise at rated speed	36%
Radiator:	
Core size area	486 in ² (3145 cm ²)
Rows of tubes	4
39 Degree fan:	
Style	7 blade suction
Ratio	1.1:1
Water pump style	Integral
Engine oil	CJ-4 semi-synthetic 10W40
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, spin on

NOTE: *Meets federal emissions regulations.

POWERTRAIN

Transmission – standard:	
4F-4R Power Shuttle Synchronesh	
Transmission manual gear shift, fully synchronized	
Gear ratios	Forward/Reverse
1st	5.603/5.603
2nd	3.481/3.481
3rd	1.584/1.584
4th	0.793/0.793
Travel speeds	mph (kph)
1st	3.8 (6.1)
2nd	6.1 (9.8)
3rd	12.9 (20.7)
4th*	24.3 (39.1)
Torque converter ratio	3.2
Differential-lock	On-the-go push-button activation
Front 4WD/Rear axle:	
Differential ratio	2.0/2.5
Planetary hub ratio	6.0/6.4
Total reduction ratio	12.0/16.0

NOTE: *Travel speeds at 2330 engine RPM
w/ 19.5 L x 24.0 rear tires.

POWERTRAIN (cont.)

Axles rating:	
Maximum static – lb (kg):	70,821 (32 124)/90,145 (40 889)/58,448 (26 511)
Dynamic operating – lb (kg):	44,261 (20 076)/56,200 (25 492)/35,575 (16 136)
Static operating – lb (kg):	17,704 (8030)/22,480 (10 197)/14,230 (6455)
Service brakes:	
Individually applied, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 2 per side.	
Parking brakes	Trans Mounted spring-applied hydraulic release – SAHR

ELECTRICAL

Voltage	12 Volts
Alternator	120 amp
Battery	685 cold-cranking amps
Opt. batteries (2)	525 cold-cranking amps
Power plugs (2)	30 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy; 2 halogen headlights; 2 rear flood lights; 2 rear tail and stop lights; 2 front flashers/turn lights; 2 rear flashers/turn lights; Anti-vandalism cover for dash and front console – w/ canopy only; Pre-wired for radio – cab only; Rear fenders w/ storage tray and molded beverage and thermos holder; Coat hook w/ garment strap; Interior rearview mirror; non-suspension seat – 15 degree and 30 degree swivel to the right; 2 in (51 mm) retractable seat belt; Cup holder/storage tray mounted on LH fender.

Gauges:
Engine water temperature; Converter oil temperature; Fuel level; Tachometer/hourmeter; Voltmeter.

Warning lights:
Air cleaner restriction; Alternator; A/C high pressure; Cold start; Engine oil pressure low; Hydraulic oil filter bypass; Parking brake engagement; Low fuel.

Audible alarms:
Coolant temperature; Engine oil pressure; Parking brake engagement; Shuttle engagement/seat position; Backup; Horn.

OPERATING WEIGHT

Configuration 1 – Lightest:
82 in (2.08 m) Standard bucket, 4WD, 19.5 L x 24.0 rear tires, ROPS cab, suspension seat, dual batteries, no operator:
9,906 lb (4493 kg)

Configuration 2 – Heaviest:
82 in (2.08 m) Standard bucket, 4WD, 19.5 L x 24.0 rear tires, ROPS cab, suspension seat, dual batteries, no operator, 3,000 lb (1360 kg) counterweight:
12,898 lb (5851 kg)

OPERATING WEIGHT (cont.)

Attachments:	
82 in (2.08 m) buckets:	
4 IN 1®	1,451 lb (658 kg)
General purpose	683 lb (310 kg)
Box scraper	1,422 lb (645 kg)
Cab – over canopy	454 lb (206 kg)
Weights:	
Counterweight	3,000 lb (1360 kg)
Rear weight	527 lb (239 kg)
Front weight	440 lb (200 kg)

HYDRAULICS

Pump	Gear pump
Capacity	28.5 gal/min @ 3,000 psi (108 L/min @ 207 bar)

SERVICE CAPACITY

Fuel tank	40 gal (151.0 L)
Hydraulic system:	
Total	81 qt (77.0 L)
Reservoir w/ filter	58 qt (55.0 L)
Reservoir w/o filter	56 qt (53.0 L)
Transmission:	
2WD – total	18 qt (17.0 L)
Reservoir	11 qt (10.4 L)
4WD – total	21 qt (20.0 L)
Reservoir	14 qt (13.2 L)
Front axle:	
Differential	5.8 qt (5.5 L)
Planetary – each	0.7 qt (0.7 L)
Rear axle:	
Differential	14.4 qt (13.6 L)
Engine oil w/ filter	10.3 qt (9.7 L)
Cooling system	17.0 qt (16.1 L)

OTHER SPECIFICATIONS

3-point hitch:

Category I & II 3-point hitch

Hydraulic lift, pitch, tilt and 2 auxiliary remotes

Vertical lift force:	
Lowest point	2,500 lb (11 121 N)
1/5	3,247 lb (14 444 N)
2/5	3,400 lb (15 125 N)
3/5	3,501 lb (15 574 N)
4/5	3,297 lb (14 666 N)
Highest point	2,984 lb (13 274 N)

Front tires:

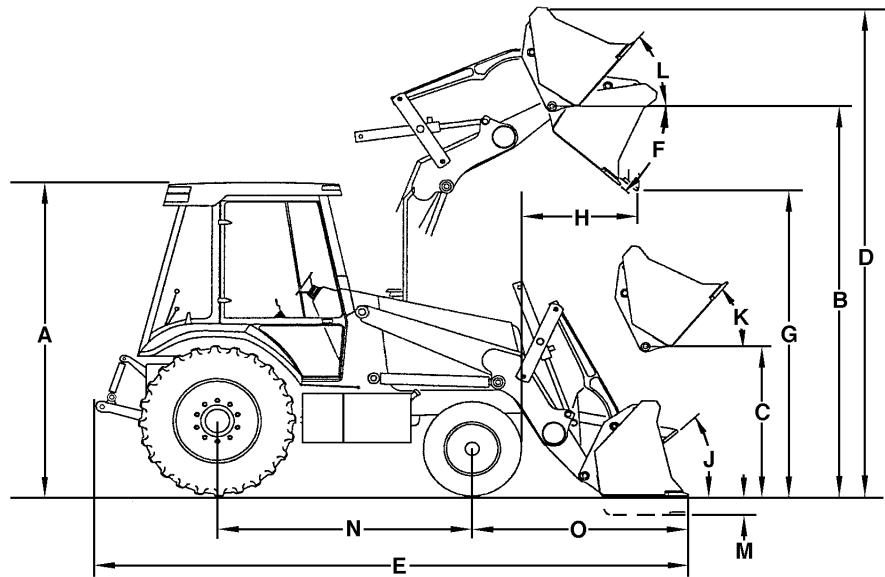
2WD – 11.0 L x 16.0, 10-ply rating
4WD – 12.0 L x 16.5, 8-ply rating

Rear tires:

2/4WD – 19.5 L x 24.0, 10-ply rating
2/4WD – 17.5 L x 24.0, 10-ply rating

Turning diameter – curb to curb:

2WD:	
Brakes on	12 ft 2 in (3.70 m)
Brakes off	12 ft 10 in (3.91 m)
4WD – engaged:	
Brakes on	11 ft 7 in (3.52 m)
Brakes off	13 ft 9 in (4.18 m)
4WD – disengaged:	
Brakes on	12 ft 3 in (3.72 m)
Brakes off	12 ft 11 in (3.92 m)



Line drawings are for illustrative purpose only and may not be exact representation of unit.

LOADER DIMENSIONS

	19.5 L x 24.0 Tires	17.5 L x 24.0 Tires
A. Height to:		
Top of canopy	9 ft 0 in (2.74 m)	8 ft 9 in (2.67 m)
Height to top of canopy – Low profile ROPS	8 ft 9 in (2.65 m)	8 ft 6 in (2.59 m)
Top of cab	9 ft 0 in (2.74 m)	8 ft 10 in (2.68 m)
	Long Lip Bucket	4 IN 1® Bucket
B. Bucket hinge pin fully raised	11 ft 3 in (3.41 m)	11 ft 3 in (3.41 m)
C. Bucket hinge pin @ SAE carry	1 ft 1 in (0.33 m)	1 ft 3 in (0.37 m)
D. Overall operating height – fully raised	13 ft 9 in (4.17 m)	14 ft 4 in (4.35 m)
E. Overall length with 3-point hitch	16 ft 11 in (5.15 m)	16 ft 9 in (5.09 m)
Width over tires:		
11.0 L x 16.0	6 ft 8 in (2.02 m)	6 ft 8 in (2.02 m)
12.0 L x 16.5	6 ft 10 in (2.06 m)	6 ft 10 in (2.06 m)
19.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
17.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
F. Dump angle @ full height	46°	45°
G. Dump clearance @ full height, 45° dump:		
Bucket	8 ft 8 in (2.63 m)	8 ft 11 in (2.71 m)
Clam open	–	9 ft 8 in (2.93 m)
H. Dump reach @ full height, 45° dump:		
Bucket	2 ft 2 in (0.66 m)	2 ft 2 in (0.64 m)
Clam open	–	11.8 in (0.29 m)
Bucket rollback:		
J. @ Groundline	40°	40°
K. @ SAE carry	45°	45°
L. @ Full height	Adjustable	Adjustable
M. Digging depth below grade:		
Bucket flat	7.8 in (0.19 m)	7.1 in (0.18 m)
Clam open – dozing	–	4.4 in (0.11 m)
Ground clearance at front axle	10.9 in (0.28 m)	10.9 in (0.28 m)
N. Wheelbase	7 ft 1 in (2.15 m)	7 ft 1 in (2.15 m)
O. Reach from front axle centerline – bucket on ground	6 ft 3 in (1.89 m)	6 ft 0 in (1.83 m)
Maximum clam opening	–	3 ft 3 in (0.97 m)
Moldboard height	–	3 ft 1 in (0.93 m)
Lift capacity to full height	6,503 lb (2950 kg)	6,537 lb (2965 kg)
Breakout force:		
Lift cylinders	9,271 lb (41 239 N)	8,766 lb (38 993 N)
Dump cylinders	9,607 lb (42 734 N)	10,325 lb (45 928 N)

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires and 82 in (2.08 m) general purpose bucket except as noted.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Case 3.4 L diesel
Cooled EGR
Diesel Particulate Filter, spark arresting
Full flow engine oil filter
Air cleaner – replaceable dry type with radial seal
Radiator with de-aeration bottle
Antifreeze to -34° F (-37° C)
Foot throttle
Self adjusting belt tensioner
Glow plugs cold start
In line fuel strainer

POWERTRAIN

Front axle, as selected:
2WD heavy-duty front axle with
11.0 L x 16.0 tires
4WD heavy-duty mechanically driven rear
axle, with 12.0 L x 16.5 tires and drive
shaft guard
Rear axle:
2/4WD heavy-duty outboard planetary drive,
with 17.5 L x 24.0 tires
4F-4R Power Shuttle Synchromesh transmission
Torque converter
On-the-go electric 4WD control
Electric F/R shuttle control
Electric differential lock control,
with push-button activation; Located on
the loader control lever and side console
Park brake, spring-applied, hydraulic release

HYDRAULICS

Gear pump:
28.5 gal/min @ 3,000 psi
(108 L/min @ 207 bar)
Heavy-duty hydraulic oil cooler
7 micron, spin on oil filter

LOADER

Bucket position indicator
Lifting lugs on standard bucket
Single lever control,
with Self-Leveling and Return-to-Dig
Hand-operated clutch disconnects on
loader and shift levers
Single lever 5-function loader control:
Lift; Dump; Auxiliary function;
Clutch cut-out; Differential-lock

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Manual Ride Control – 2WD Models
Selectable manual/ground speed activated
Auto Ride Control – 4WD Models
Comfort Steer
ROPS and FOPS certified protective canopy:
Short and standard height
ROPS certified cab with heater, defroster,
front and rear wipers and floor mat
Cab Convenience Package containing:
Flip forward sun visor; Window washer – front
and rear; Radio Ready kit, including wiring,
speakers and DIN radio mounting;
Deluxe Interior Package
Air-conditioning for cab models
Mechanical suspension seat:
With armrests – 15° and 30° swivel to the
right; Cloth or vinyl; Adjustable seat height,
backrest angle; Lumbar and thigh support
Wide seat belt – 3 in (75 mm)

ENGINE

Cold Weather Starting Aid
with dual 12 Volt batteries
Block heater
Master disconnect switch and remote
jump-start terminals

TRACTOR

Chaff screen – dealer installed option
Auxiliary work lights:
2 front and 2 rear flood for tall canopy
and cab
Canopy sun visor – tall canopy only
440 lb (200 kg) front counterweight
Hand throttle
527 lb (239 kg) counterweight,
bolted to hitch frame
5th spool auxiliary circuit for 3-point hitch valve
Tool portfolio of additional attachments
3-point hitch with 485 lb (220 kg) Plug in
counterweight – cannot be used with PTO
3,000 lb (1360 kg) rear counterweight
Drawbar
Rear wheel weights 564 lb (256 kg)

LOADER

Auxiliary hydraulics for loader-mounted
equipment
Hydraulic front quick coupler
Mechanical front quick coupler
Buckets – less teeth:
82 in (2.08 m) general purpose Long Lip,
with bolt-on cutting edge – includes
lift eyes
82 in (2.08 m) general purpose Long Lip,
without bolt-on cutting edge – includes
lift eyes
82 in (2.08 m) 4 IN 1®, includes 3 Bolt-on
cutting edges; Unit must be equipped
with auxiliary loader hydraulics
93 in (2.36 m) light duty loader bucket
Bolt-on cutting edges
Loader linkage without loader bucket

OTHER

Tool box – bolt-on step-mounted
Special paint
Spare tires

CASE Customer
Assistance
1866-54-CASE6

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

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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CASE
CONSTRUCTION

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