

Crawler Loader

Case 118 net horsepower (88 kW) diesel
2 yd³ (1.53 m³) capacity general purpose bucket
4 speed power turn transmission with counter rotation

1155E



Case

1155E

1155E Basic Tractor

Engine

Make and model **Case 6T-590**
 Type of fuel No. 2 diesel
 No. of cylinders 6
 Bore and stroke 4" x 4.72"
 (102 mm x 120 mm)
 Displacement 359 in³ (5883 cm³)
 Compression ratio 17.5:1
 Fuel induction Injectors (6)
 Fuel supply Injection pump
 Air cleaner Dry type—dual element
 with service indicator
 Oil filter Full flow, replaceable
 spin-on cartridge
 Lubrication Positive pressure
 Cooling system Pressurized—15 psi
 (103 kPa)

Horsepower

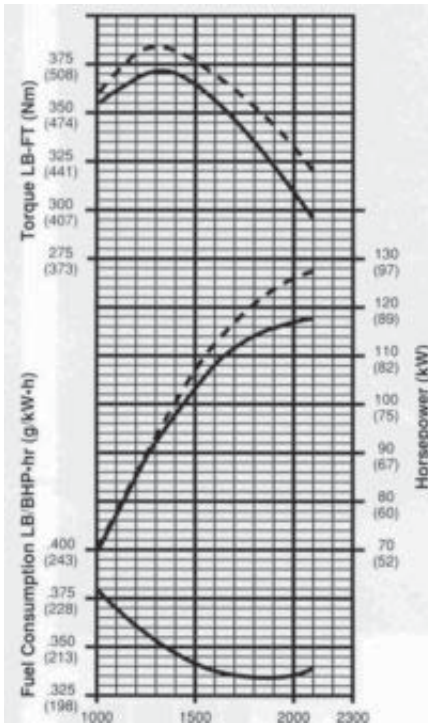
(1) Gross 129 @ 2100 rpm
 (96.2 kW @ 2100 r/min)
 (2) SAE Net 118 @ 2100 rpm
 (88 kW @ 2100 r/min)
 D.I.N. 118 p.s. @ 2100 rpm
 (87 kW @ 2100 r/min)

Max torque ft-lb

(1) Gross 385 @ 1300 rpm
 (522 Nm @ 1300 r/min)
 (2) SAE Net 373 @ 1300 rpm
 (506 Nm @ 1300 r/min)

(1) Gross engine horsepower or torque at flywheel per SAE Standard J1349.
 (2) Net engine horsepower or torque at flywheel per SAE Standard J1349.

Power Curve



— Engine Speed-RPM (r/min)
 - - - Gross Engine Performance
 — Net Engine Performance

Electrical

System voltage . . . 24-volt, negative ground
 Batteries (2) . . . 12-volt, low maintenance
 650 cold cranking amps @ 0°F (-18°C)
 Alternator 45 amp

Steering

Steering controlled by independent hydraulic clutches in transmission or by multiple disc power brakes, gradual turns, counter-rotation, and brake turns.

Power Train

Transmission: Constant mesh 4 speed powershift transmission. Modulated in high and low ranges and forward and reverse. Four forward speeds and four reverse.

Torque converter: Single stage, hydro-kinetic type, 13" (330 mm) with 2.95:1 ratio.

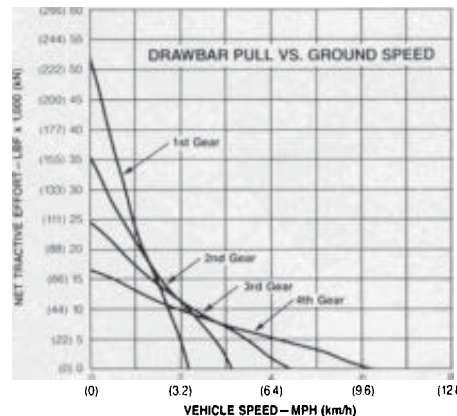
Brakes: Two multiple disc power brakes, oil cooled, independently controlled by power brake pedals for steering. Center pedal for controlled braking. Separate pedal provides braking without disengaging transmission. Hand operated over-center parking brake.

Final Drives: Spur and bull gear type, single reduction. One-piece line-bored case with final drive seal guards.

Filtration: Spin-on cartridge, B₅ = 2.0 rating. Inlet line strainer. 100 mesh screen.

Cooling: Side-by-side radiator cooler.

Draw Bar Pull



Maximum drawbar pull depends on traction and weight of equipped tractor.

Travel Speeds—mph (km/h)

Engine at full throttle				
	1st	2nd	3rd	4th
Forward	2.1 (3.4)	3.1 (5.0)	4.3 (6.9)	6.2 (10.0)
Reverse	2.5 (4.0)	3.7 (6.0)	5.2 (8.4)	7.4 (11.9)

Undercarriage

Sealed and lubricated track standard; sealed track optional. Permanently sealed and lubricated track rollers, carrier rollers, drum-type idlers. Hydraulic track adjusters. Solid disc hunting tooth sprockets. Reinforced box section track roller frame.

Track frame Rigid
 Track rollers (each side) 6
 Carrier rollers (each side) 1
 Track gauge 62" (1.58 m)
 Length of track on ground . 86.7" (2.20 m)
 Shoes per track (each side) 40
 Track shoe width available 15", 16"
 (381 mm, 406 mm)

Area track on ground
 15" (381 mm) shoe 2601 in²
 (16 781 cm²)
 16" (406 mm) shoe 2774 in²
 (17 897 cm²)

Ground pressure
 15" (381 mm) shoe 10 psi (70 kPa)
 16" . . (406 mm) shoe . . . 9.4 psi (65 kPa)
Height of track shoe
 2-bar grouser 1.17" (29.7 mm)
 3-bar grouser 0.81" (20.6 mm)

Loader Hydraulic System

Pump: Gear type torque converter mounted, driven from engine . . 40 gpm @ 2100 rpm
 (151.4 l/min @ 2100 r/min)

Control valve: Open-center, parallel with pressure compensation and low pressure regeneration.

System relief pressure 2900 psi
 (19 995 kPa)

Filtration: Spin-on replaceable cartridge

Cylinders

Lift: (2) 4.5" x 31.45" stroke, 2.25" rod
 (114 mm dia x 799 mm stroke, 57 mm rod)

Bucket: (2) 4.0" dia x 36.25" stroke, 2" rod
 (102 mm dia x 921 mm stroke, 51 mm rod)

Hydraulic cycle time:

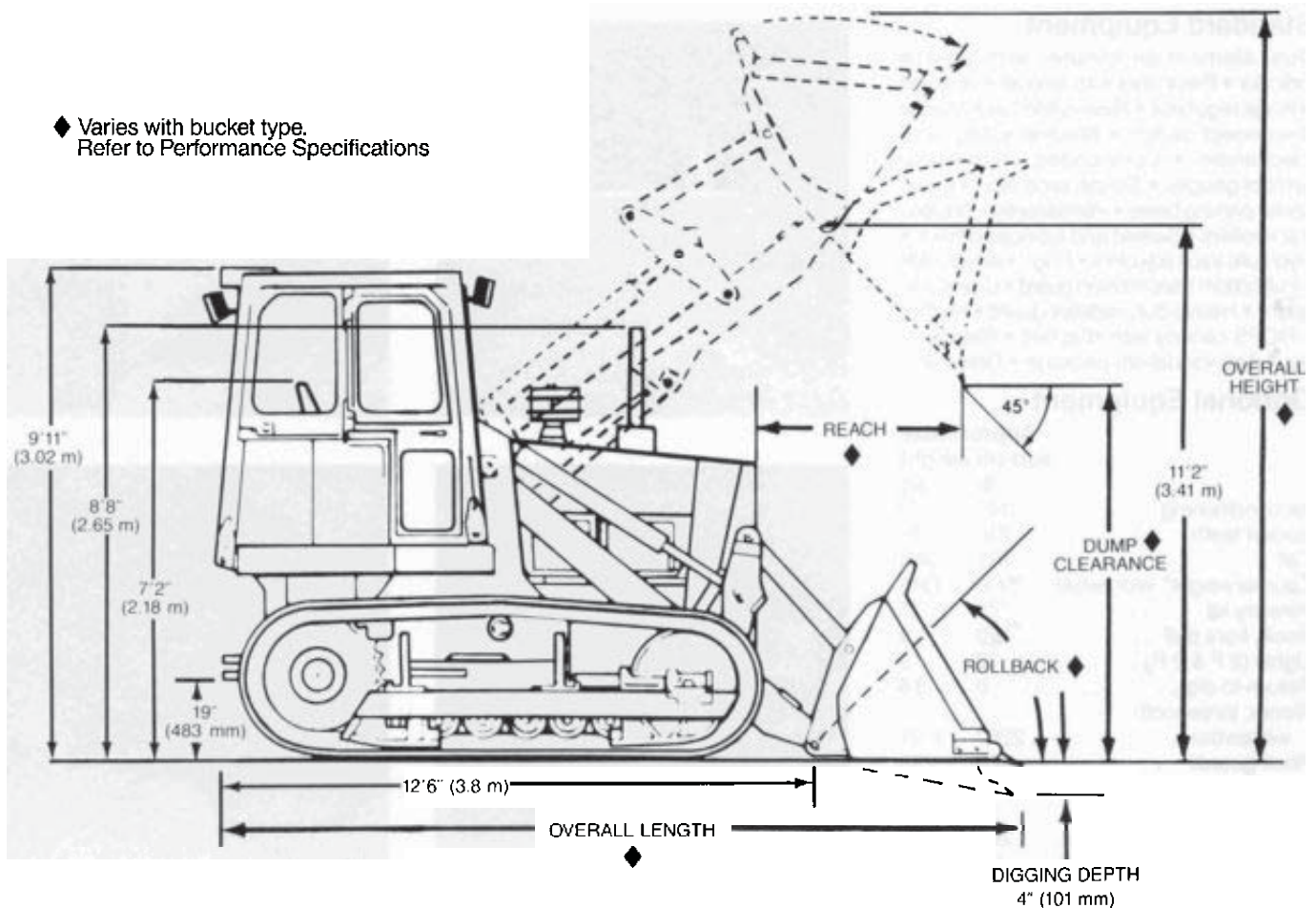
(Rated load in bucket) Seconds
 Raise 6.2
 Dump 1.8
 Lower (float down) 3.1
 Total 11.1

Service Capacities

	U.S. Gal	Liters
Fuel tank	52	197
Hydraulic system	15	57
Transmission and torque converter	15	57
Engine crankcase	4	15.1
Final drives (each side)	8 qts	7.6
Cooling system	6.5	24.6

Dimensional Data

◆ Varies with bucket type.
Refer to Performance Specifications



Performance Specifications

Bucket Type—Capacity	General Purpose	4-IN-1®
SAE rated nominally heaped	2 yd ³ (1.53 m ³)	1.75 yd ³ (1.34 m ³)
Struck capacity	1.64 yd ³ (1.25 m ³)	1.47 yd ³ (1.12 m ³)
Bucket weight (less teeth)	1800 lb (816 kg)	2570 lb (1166 kg)
Bucket width	81.2" (2.06 m)	81.2" (2.06 m)
Breakout force	22,200 lb (98 751 N)	21,000 lb (93 413 N)
SAE static tipping load*	18,200 lb (8255 kg)	16,500 lb (7484 kg)
Maximum lift capacity to full height	10,300 lb (4672 kg)	9,500 lb (4306 kg)
Digging depth below ground	4" (102 mm)	9.1" (231 mm)
Bucket rollback @ ground line	40°	43°
@ 18" (457 mm) carry	43°	45°
Dump clearance @ full lift—45° discharge	8'8" (2.64 m)	8'7" (2.62 m)
Reach @ 45° discharge angle, 7' (2.13 m) clearance	53.8" (1.37 m)	58" (1.47 m)
Reach @ full lift, 45° discharge	40.8" (1.04 m)	45.3" (1.15 m)
Overall length	15'9" (4.80 m)	16'3.9" (4.96 m)
Overall height	15'11" (4.85 m)	15'3" (4.65 m)
Overall height with ROPS	9'6" (2.90 m)	9'6" (2.90 m)
Operating weight*	25,000 lb (11 340 kg)	26,770 lb (12 143 kg)

*Includes ROPS, 2900 lb (1315 kg) counterweight, 2 yd³ (1.53 m³) bucket, full tank of fuel and 170 lb (77 kg) operator.
Operating weight and weight distribution may vary with the addition of optional equipment.

Equipment Data

Standard Equipment

Dual element air cleaner with service indicator • Precleaner • 45 amp alternator and voltage regulator • Reversible fan • Master disconnect switch • Neutral safety start mechanism • Color-coded international symbol gauges • Suspension seat • Over-center parking brake • Permanently lubricated track rollers • Sealed and lubricated track • Hydraulic track adjusters • Engine sideshields • Full bottom transmission guard • Crankcase guard • Heavy-duty radiator guard • Muffler • ROPS canopy with seat belt • Return-to-dig • Anti-vandalism package • Drawbar

Optional Equipment

	Approximate add-on weight	
	lb	kg
Air conditioning	160	73
Bucket teeth	210	95
Cab	785	356
Counterweight* w/drawbar	2900	1315
Forestry kit	170	77
Hook, front pull	20	9
Lights (2 F & 2 R)	10	5
Return-to-dig	8	3.6
Ripper, three-tooth w/drawbar	2250	1021
Rock guards	625	283
ROPS, front sweeps	150	68
ROPS, rear screen	52	24
Track guides	280	127
Track shoes 16" (406 mm)	110	50

*Included in Operating Weight.

4-IN-1® Bucket

Width of moldboard cutting edge 66.1" (1.68 m)
Moldboard height 49" (1.24 m)
Maximum clam opening . . . 51.3" (1.30 m)
Dump clearance @ full height (using clam) 11'0" (3.35 m)



Ripper

Overall width 57" (1.45 m)
Maximum penetration 19" (483 mm)
Ground clearance (at carry) 10" (254 mm)
Number of shanks 3
Shank spacing 31" (787 mm)
Ripper tips Replaceable
Hydraulic cylinder (2)
4" dia x 10" stroke, 2" rod
(102 mm dia x 254 mm stroke, 51 mm rod)
Weight 2250 lb (1021 kg)

Sold and serviced by:

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Note: All specifications are stated in accordance with 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. Unit illustrated is equipped with non-standard equipment.

J I Case
A Tenneco Company
700 State Street, Racine, WI 53404 U.S.A.

