



Versatile
Operator's Manual
555

Tractor, Loader & Backhoe

Operator's Manual

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 VERSATILE

555 Tractor

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MONITOR

Digital Tachometer/Speedometer: Displays engine speed, ground speed or PTO speed as selected by the rotary switch.

NOTE

The ground speed has been calibrated for average tire sizes. If you change tire size the monitor may need recalibration. See your Versatile dealer.

Hour Meter: Indicates total hours of engine operation.

Buzzer: Sounds whenever engine oil pressure, coolant temperature, coolant level or hydraulic clutch pressure warning lights are ON, and engine speeds is above 500 r/min. When tractor starts, the buzzer will sound until engine oil

pressure reaches its normal level. If the buzzer sounds during normal tractor operation, shut down engine immediately.

The buzzer also sounds if you attempt to shift into gear while clutch oil pressure warning light is ON, indicating low clutch pressure. Wait until the light goes out before shifting.

Monitor Lights

Oil Pressure: Lights and sounds buzzer if engine oil pressure drops below 138 kPa (20 psi). Shut down engine and investigate if light stays on.

Coolant Temperature: Lights and sounds buzzer if engine coolant temperature exceeds 100° C (212° F). Shut down engine and investigate if light stays on.

Coolant Level: Lights and sounds buzzer if coolant level drops below probe in coolant surge tank. Shut down engine and investigate if light stays on.

Air Filter: Lights if air filter needs cleaning. When it comes on, it is not necessary to clear the restriction immediately. Do it at the end of the day.

Hydraulic Clutch Pressure: Lights and sounds alarm if clutch apply pressure falls below 690 kPa (100 psi). Shut down engine and investigate if light stays on.

Transmission Pressure: Lights if transmission oil pressure falls below 34 kPa (5 psi). Shut down engine and investigate if light stays on.

Alternator: Lights if alternator is discharging.

Hydraulic Temperature: Lights if hydraulic oil temperature exceeds 92° C (197° F). Shut down engine and investigate if light stays on.

Parkbrake: Lights when parkbrake is engaged.



Monitor

FIRST DAY CHECKS

1. Tire inflation
2. Engine oil level. Normal consumption is one to three L (one to three qt US) per day
3. Transmission oil level
4. Hydraulic oil level
5. Coolant level
6. Battery electrolyte level
7. Axle, wheel, transmission and hitch mounting bolts
8. Universal joints
9. Radiator and cooling fins
10. Fuel level
11. Engine air intake connections

AIR CLEANER

The engine dry type air cleaner consists of a large outer element, smaller inner element and an exhaust aspirated precleaner. The precleaner removes dirt from the air and discharges it through the muffler.



Air Cleaner Element

IMPORTANT

Do not service air cleaner unless restriction light indicates that cleaning is necessary. Cleaning only when required will prolong filter life.

Outer Element

1. Remove outer element and blow out with compressed air not exceeding 690 kPa (100 psi). Keep nozzle at least 150 mm (six in.) away.
2. Put nozzle inside element to blow dust out.

IMPORTANT

Do not use compressed air to dry element.

3. Wash element thoroughly in warm water with VERSATILE® part no. 12433 detergent. Flush with clean water, shake off excess and allow element to air dry. The element can be washed a maximum of 10 times.
4. When element is dry, insert a light inside and check for ruptures. A pinpoint of light indicates a rupture in the element paper. If this occurs, replace element.
5. Clean air cleaner body before installing element. Cracks or chips in the sealing rubber means a new element must be installed.

Inner Element

The inner element prevents dirt from entering the air intake when outer element is removed or ruptured. This element is not serviceable and should be replaced yearly.

Tube Connections

Check all engine air intake tubes for tightness and cracks every 50 hours.

DIMENSIONS

Overall Length	6 340 mm (249.6 in.)
Wheelbase	3 048 mm (120 in.)
Maximum Operating Weight	11 793 kg (26 000 lb)
Recommended Range of Operating Weight	10 000 to 11 340 kg (22 000 to 25 000 lb)
Shipping Weight with 18.4 × 34 R1 singles, Three-point hitch and PTO .	7 700 kg (16 980 lb)
Shipping Width with single tires	2 540 mm (100 in.)

DRAWBAR

Dimensions	38 × 102 mm (1.5 × 4 in.)
Height with 18.4 × 38 tires	432 mm (17 in.)

ELECTRICAL SYSTEM

Type	12 V, negative ground
Alternator Output	90 A
Batteries	Two 204 Amp hour
Headlights	Two 60 W
Worklights	Six 50 W halogen
Electrical Trailer Connector . . .	Seven conductor 40 Amp at 6 to 28 VDC
Fuses and Circuit Breakers	See Table 13

ENGINE

Model	Cummins VT-555C (turbocharged)
Maximum brake horsepower at 2 850 r/min	156.5 kW (210 hp)
Maximum Torque at 1 800 r/min	641.4 N·m (473 lbf ft)
Full Load Governed Speed	2 850 r/min
Full Throttle No-Load Speed	To 3 300 r/min
Idle Speed	1 000 r/min
Bore	117 mm (4.625 in.)
Stroke	104.7 mm (4.125 in.)
Displacement	9.1 L (555 in. ³)
Compression Ratio	17.1:1
Oil Capacity	23.8 L (25.2 qt US)
Filters	Full flow oil filter, spin-on bypass oil filter

EXHAUST SYSTEM

Type	Single muffler
Muffler Size	Elliptical, 155 × 257 × 965 mm (6.12 × 10.12 × 38 in.)

FRAME

Type	43° angled, articulated
Oscillation	± 15°
Articulation Lock	Pin type

FUEL TANKS

Capacity	454 L (120 gal US) in two saddle tanks
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