


# **Wildcat Tractor**

## **Operators Manual**

**37-046**

Reprinted

***CASE III***




 *THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.*

M171B

If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.



# WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

# SUPPLEMENT TO

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# ST210 WC III OPERATORS MANUAL

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(Effective with serial number 100-00500 and up.)

**IMPORTANT:** *The following information is an update for your Operator's Manual. Keep this Supplement with the manual for reference.*

## Engine

### General Specifications

**Model:** Caterpillar 3208 DINA  
**Type:** Naturally aspirated, direct injection, four-stroke cycle, 90° V-8 Diesel.  
**Bore & Stroke:** 4.5"x5" (114mmx127mm)  
**Piston Displacement:** 636 cubic inches (10.4 liters)  
**Compression Ratio:** 16.5:1  
**Torque Rise:** Approximately 23%.  
**Hi Idle, No Load:** Approximately 3040 RPM.  
**Rated Speed:** 2800 RPM  
**Engine Low Idle:** 850 RPM  
**Oil Pressure:** 45 psi to 75 psi with SAE 30 oil at normal operating temperature and rated RPM.

### Lubrication Specifications

**Oil Type:** API classification CC/CD or MIL-L-2104C CC Oil, MIL-L-2104B or MIL-L-46152.  
**Oil Viscosity:** Above 32°F (0°C) use SAE 30—below 32°F (0°C) use SAE 10W-30.  
**Oil Capacity:** Normal oil change 26 qts. (24.60 liters) including engine filter and remote mounted filter.  
**Oil Filter Types:** Two engine mounted spin-on throw-away element Steiger P/N 28-006. One remote mounted canister-type—capacity 3 gallon (11.35 liters) filter element Steiger P/N 28-028.

### Periodic Maintenance

**Oil Check:** Every 10 hours  
**Oil and Filters:** Change every 100 hours.  
**Fuel Filter:** Change every 100 hours or as required.  
**Valve Lash:** Adjust first 80 hours on new machine (500 hrs. thereafter).  
See Pages 32-33 for Specifications and Procedure.

## Axle

### General Specifications

**MODEL—598**  
**TYPE—**Dual planetary outboard hubs, spiral bevel ring gear and pinion.

### Lubrication Specifications

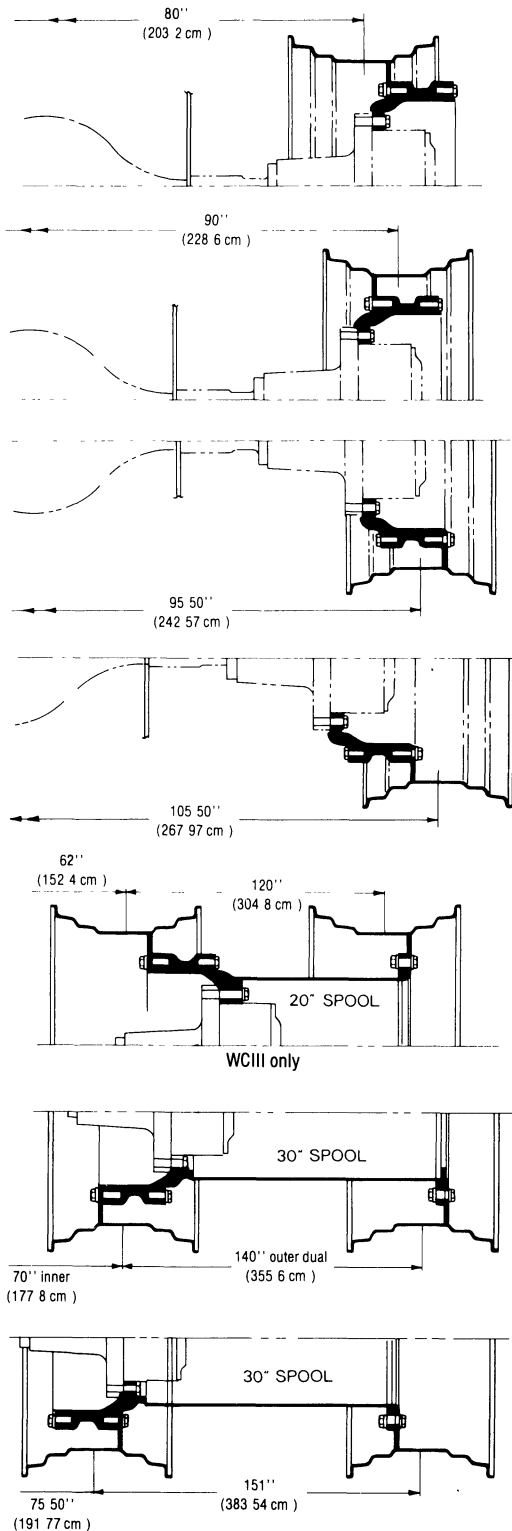
**OIL TYPE—**SAE 80W90 Gear oil [Steiger P/N 01-4642, 5 gal. (19 liters) container, or P/N 01-4643, 30 gal. (113.5 liters) container] for temperatures below 32°F (0°C) or above 32°F (0°C) when operating at mild load conditions.

E.P. SAE 85W-140 [Steiger P/N 01-4640, 5 gal. (19 liters) container or P/N 01-4641, 30 gal. (113.5 liters) container] or E.P. SAE 140 may be used in temperatures above 32°F (0°C) when operating at severe load conditions. All axle lubricants must meet the MIL-L-2105B and/or API GL-5 specifications for gear lube.

**Oil Capacity—**Center Section 6.5 qts. (6.1 liters), wheel hubs 7.5 qts. (7 liters) each.

## Adjustable Wheels (Optional):

The following illustrations will show the positions of the optional manually adjustable wheel rim and spacer lengths needed to arrive at a desired wheel tread center.



**NOTE:** Not all of these spacing combinations can be obtained on all model tractors because of various frame dimensions and/or tire sizes.

## Axle Assembly—598

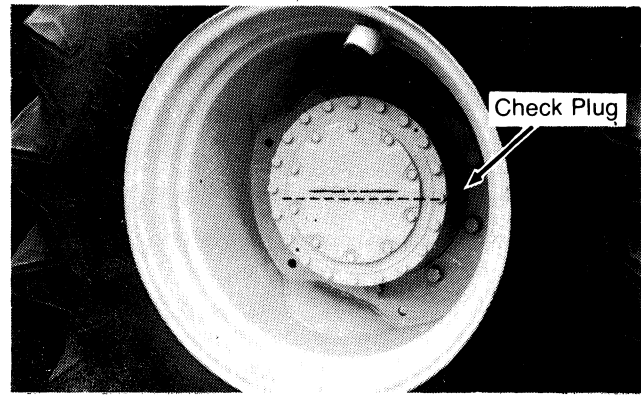


Figure 1

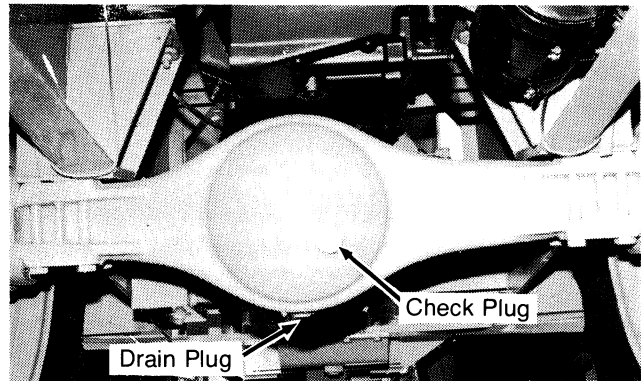


Figure 2

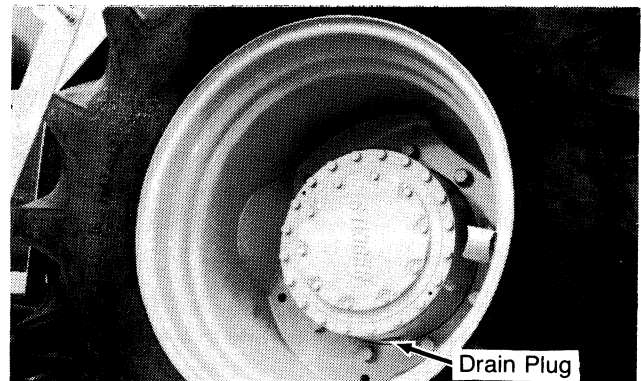


Figure 3

## Oil Level Check And Fill

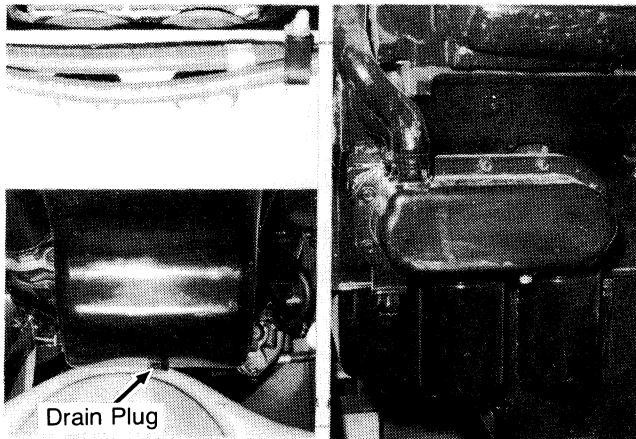
Check oil level every 100 hours. Park tractor on level ground with wheel in position as shown in Figure 1. Check center section (Fig. 2) and wheel hub (Fig. 1). Oil can be added at this time if required. Check vents.

## Oil Drain

Park tractor on level ground with wheel in position as shown in Figure 3. Drain center section (Fig. 2) and wheel hub (Fig. 3).

**NOTE:** Axles should be drained when lubricant is warm.

## Changing Crankcase Oil and Filters

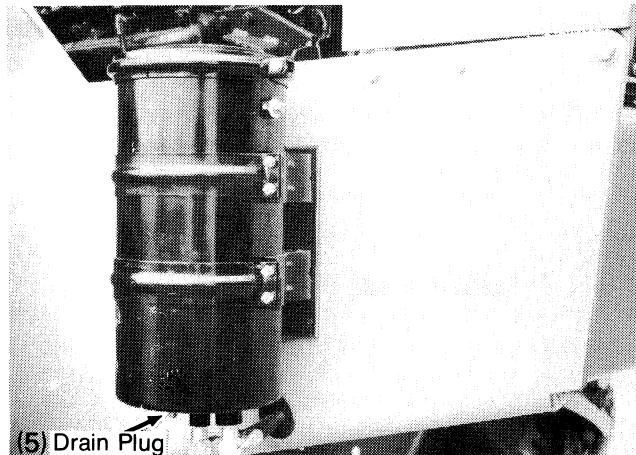


Drain the crankcase with the engine stopped and oil warm.

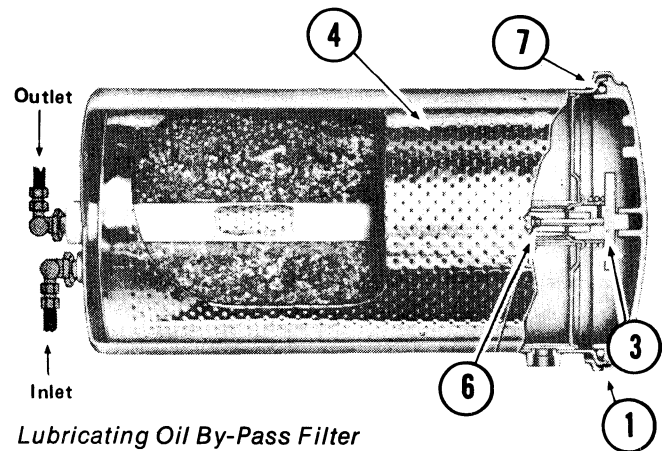
1. Remove the crankcase drain plug.
2. Unscrew and remove the two (2) engine oil filters.

**IMPORTANT:** Be sure the old filter gasket(s) do not remain attached to the filter base. Leakage between the old and new gasket will result.

3. Wipe the filter base clean.
4. Apply a thin coat of clean oil to the gasket of each new filter and install the filters. Hand tighten the filter 1/2 additional turn after the filter gasket contacts the filter base.
5. Install the crankcase drain plug.



6. Drain the frame mounted bypass filter assembly. Remove the drain plug (5).
7. Remove the clamping ring capscrew (1) and lift off the cover.



Lubricating Oil By-Pass Filter

8. Unscrew upper support hold down assembly (3); lift out element (4) and hold down assembly. Discard the element.
  9. Clean housing and hold down assembly in solvent. Inspect hold down assembly spring and seal. Replace if damaged.
  10. Check orifice plug (6) inside oil outlet connection or standpipe. Blow out with air jet to be sure orifice is open and clean.
  11. Check filter cover O-ring (7). Replace if damaged or deteriorated.
  12. Install new element in housing. Replace upper support hold down assembly in filter and hand tighten down to stop.
  13. Install housing drain plug and fill the housing with clean new oil of the same type used in the engine crankcase.
  14. Position O-ring seal on housing flange.
  15. Install cover and clamping ring. Tighten capscrews until clamping ring lugs come together.
  16. Fill the crankcase to the full level on the dipstick. Start the engine and run at low idle while checking for oil leaks.
- NOTE:** It is very important to visually check for oil leaks after each oil and/or filter change. Check while running engine at low idle.
17. After checking for oil leaks, shut the engine down and allow a minimum of 15 minutes for oil to return to crankcase. Recheck oil level and add oil as required to bring oil to the full mark on the dipstick. **Do not overfill.**

## Tractor Weighting

Shipping Weight Approximately 20,464 lbs. ( 9,291 kg) with 18.4 x 34 R1-6 Ply Duals. Less three-point and fuel.

**NOTE:** *Weights may vary with options and/or equipment.*

**IMPORTANT: DO NOT EXCEED THE PUBLISHED MAXIMUM WARRANTED WEIGHT.**

Recommended Maximum Vehicle Weight:  
23,000 lbs. (10,422 Kg)

\*Warranted Vehicle Weight (Maximum Ballasted)  
25,000 lbs. (11,350 Kg)

## Speed Charts

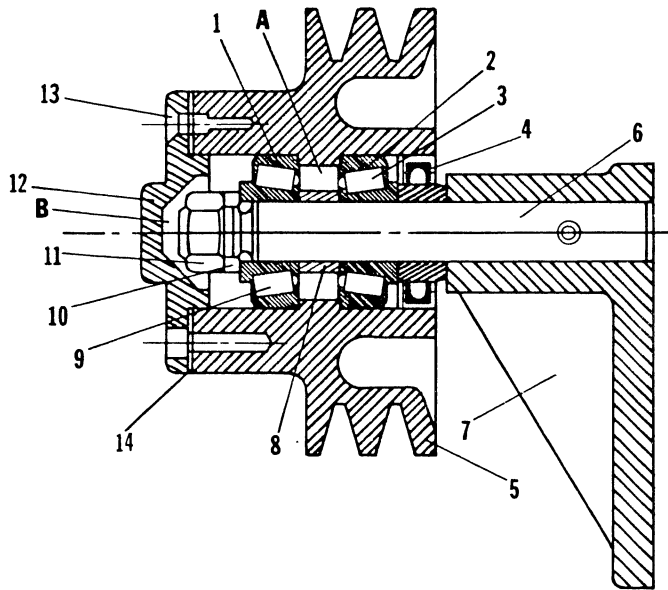
### Model 598 Axle, and 24.5 x 32R1-10 ply tires.

Gear:	1	2	3	4	5	6	7	8	9	10
MPH	2.41	3.80	3.96	5.03	6.30	8.13	10.96	13.44	16.82	21.37
KM/hr	3.88	6.12	6.38	8.10	10.14	13.09	17.64	21.64	27.08	34.41

### Based on 18.4 x 34R1-6 ply tires.

Gear	1	2	3	4	5	6	7	8	9	10
MPH	2.24	3.54	3.69	4.68	5.87	7.57	10.20	12.51	15.66	19.90
KM/hr	3.61	5.70	5.94	7.53	9.45	12.18	16.42	20.13	25.21	32.04

## Assembling and Repacking Caterpillar P/N 6N7690 Fan Mounting Pulley Assembly



1. Install bearing cups (1) and (2) in pulley (5). Put Caterpillar P/N 2S3230 Bearing Lubricant in bearing cone (3). Install bearing cone (3) in bearing cup (2). Install seal (4) in pulley (5), so the sealing lip is toward bearing cone (3). Put a small amount of Caterpillar P/N 2S3230 Bearing Lubricant on the lip of seal (4).

NOTE: Caterpillar lubricant P/N 2S3230 is a high temperature grease. This hub should not be lubricated with a multi-purpose grease. Lubricate with Caterpillar grease P/N 2S3230 or equivalent high temperature silicone base, grease with a minimum drop point of +350 F.

2. Install pulley (5) shaft (6). Be careful to not damage the sealing lip of seal (4). Install Caterpillar P/N 4N7950 Spacer (8) (.440"). Put Caterpillar P/N 2S3230 Bearing Lubricant around spacer (8) until area (A) is one-third to one-half full of lubricant. Put Caterpillar P/N 2S3230 Bearing lubricant in bearing cone (9) and install the bearing in bearing cup (1). Install washer (10), and nut (11). Use a Caterpillar P/N 5P3518 Spanner Wrench and tighten nut (11) to 110 + 15 lb. ft. (15.1 + 2 mkg).

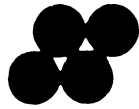
3. Check the axle play of pulley (5). Pulley (5) must have .001" - .010" axle play after assembly.

NOTE: Spacers are available in 3 widths in Caterpillar spacer kit P/N 4N8607. .430 Cat P/N 4N7949, white code; .440 Cat P/N 4N7950, yellow code; .450 Cat P/N 4N7951 green code.

IMPORTANT: If end clearance for pulley (5) is less than .001", remove Caterpillar P/N 4N7950 (.440") Spacer (8) and install Caterpillar P/N 4N7951 (.450") Spacer. Assemble pulley and again check end clearance for pulley (5). If after installing .440 Spacer, end clearance is more than .010", remove the Caterpillar P/N 4N7950 (.440") Spacer and install a Caterpillar P/N 4N7949 (.430") Spacer. Be sure to put Caterpillar P/N 2S3230 Bearing Lubricant around the new spacer so area (A) is one-third to one-half full of lubricant. Always put more lubricant in bearing cone (9) before installing in bearing cup (1). Install the remainder of the parts and tighten nut (11) to 110 + 15 lb. ft. (15.1 + 2 mkg.) Check axle play again to be sure it is correct.

4. Put Caterpillar P/N 2S3230 Bearing Lubricant in area (B). Area (B) must be a minimum of one-third to one-half full of lubricant. Install gasket (14). For the Caterpillar P/N 6N7690 Pulley Assembly, install cover (12) and screws (13). Tighten screws (13) to 40 + 5 lb. in. The head of each screw (13) must be below outer surface of cover (13).

NOTE: It is of the utmost importance to properly identify the correct type of fan hub when performing service to assure proper shaft nut torque.



# DELIVERY CHECK WILDCAT III

Customer Name \_\_\_\_\_

Address \_\_\_\_\_

Dealer Name \_\_\_\_\_

Address \_\_\_\_\_ Date \_\_\_\_\_

Engine Serial No. \_\_\_\_\_ Tractor Serial No. \_\_\_\_\_

### ENGINE:

- Engine Rated RPM (2800)
- Engine Idle (Approx. 850 RPM)
- Engine Hi-Idle, no load  
(Approx. 3000 RPM)
- Belts
- Oil Pressure Gauge  
(Min. Idle Reading 15 PSI)
- Engine Mounts
- Engine Temp. Gauge
- AMP Gauge
- Fuel Gauge
- Alternator
- Battery Performance
- Battery Cables
- Radiator Level
- Fuel Line Leaks
- Fuel Filter
- Oil Filter
- Fuel Tank
- Fuel Tank Cover
- Electric Wire System
- Engine Air Cleaner Elements
- Engine Air Cleaner Inlet  
Tube Clamps
- Engine Shut Down System  
Operation

### DROP BOX:

- Oil Level (Check sump)
- Flange Bolts
- U-Joints
- Mount Bolts
- Swing Box Mounts

### CAB:

- Cab Appearance
- Vinyl Covering
- Window Glass
- Door Latches
- Weather Stripping
- Window Wipers
- Seat & Arm Rests
- Floorboard Mat
- Interior Lights
- Tach & Hour Meter
- Radio
- Throttle Linkage
- Throttle Lever

### DIFFERENTIAL:

- Oil Level
- Oil Level Planet
- Axle Bolts
- Lug Bolts & Nuts (torque)
- Dual Bolts & Nuts (torque)
- Drive Line Joints
- Tire Pressure & Size

### FRAME:

- Hinge Pins
- 3-Pt. Hitch (optional)
- Steering Cylinder Bolts  
(per Operator's Manual)

### LUBRICATION:

- Grease all Zerks  
(per Manual)

### HYDRAULICS:

- Tank Level
- Oil Line Leaks
- Filters
- Control Valve
- Pump
- Steering Cylinders
- Quick Couplers
- Hose Connectors
- Priority Valve
- Flow Control
- Pressure & Desired  
Flow

### TRANSMISSION:

- Check Sump
- Leaks
- Oil Level
- Filter
- Flange Bolts
- Drive Shafts
- U-Joints
- Mounts
- Clutch Adjustment
- Neutral Start Switch

### BRAKES:

- Parking Brake Adj.
- Brake Fluid
- Brake Operation

THIS TRACTOR HAS BEEN DELIVERED TO ME IN GOOD CONDITION WITH AN OPERATOR'S MANUAL AND I HAVE BEEN INSTRUCTED IN THE FUNCTION, SAFE OPERATION AND ADJUSTMENTS OF THE ITEMS LISTED ABOVE.

TRACTOR APPLICATION \_\_\_\_\_

OWNER'S SIGNATURE \_\_\_\_\_



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