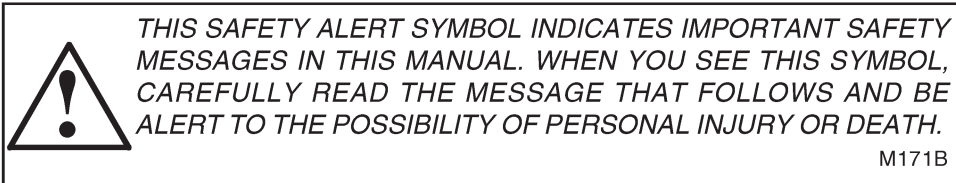


ST450 / ST470
Operators Manual

37-062R1

Reprinted




CASE III



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.

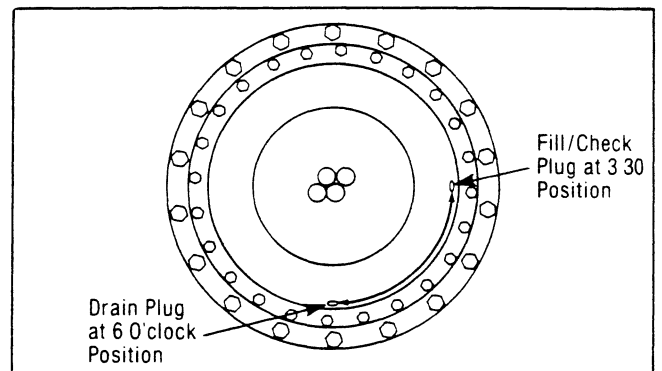
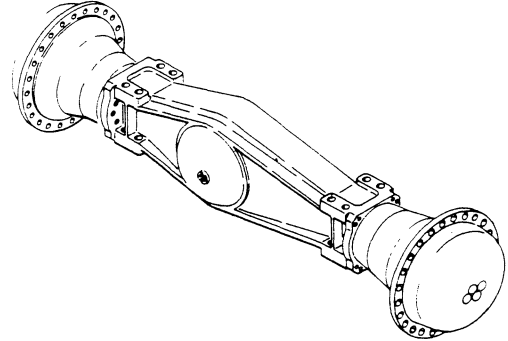
IMPORTANT **SUPPLEMENT TO** **ST 450 & ST 470 Tiger III** **Operation & Maintenance Manual**

A new model K594 20/30 axle is installed as a running production change effective with the following serial numbers:

ST 450 Tiger III - 129-01502 & up
ST 470 Tiger III - 130-01517 & up

The new K594 20/30 axle has a compound reduction 3 x 5 planet gear arrangement at the wheel end. The power flow is as follows:

- A. The outer planetary (3 gears) is the intermediate drive and receives the power flow from the axle shaft sun gear.
- B. The power flow is then transferred to the inner wheel end planetary (5 gears) which is the final drive that transmits the torque directly to the wheel hub.
- C. The outboard planetary design teams with a new differential carrier to provide a 31.702:1 total axle ratio. This ratio will **not** change the current tractor speeds shown within this manual any significant amount.



Planetary Check/Fill & Drain Plug Positions

Axle:

General Specifications

Model: K594 20/30

Overall Ratio: 31.702:1

Type: Dual planetary outboard hubs. Spiral bevel ring and pinion

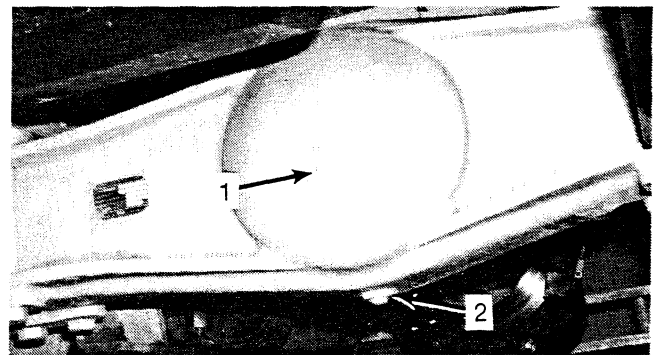
Oil Type: SAE 80W-90 Gear Lube only. Axle lubricant must meet MIL-L-2105B and/or API GL-5 specifications

Oil Capacity: Center Differential - 38 US qts (35.9L) wheel hubs - 10 US qts (9.4L) each

Total Capacity: 58 US qts (54.8L)

NOTE: Axle assemblies are flow-through design; oil is allowed to flow between compartments. Always park the tractor on a level surface when checking fluid levels.

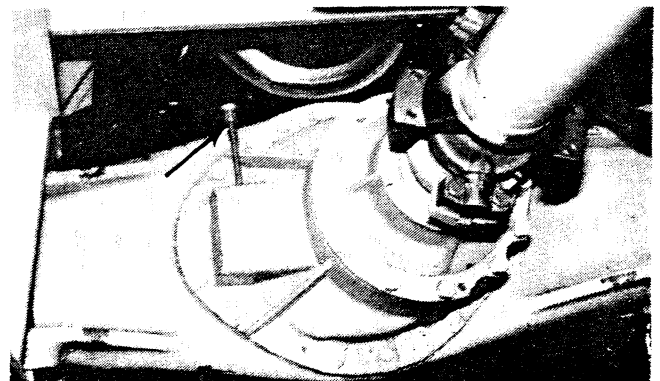
IMPORTANT: Change axle lube oil after the first 100 hours of operation. Change oil after operation while the oil is warm.



Differential

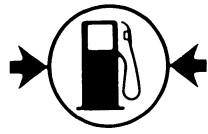
1-Check/Fill Port

2-Drain Plug



Differential Breather Plug

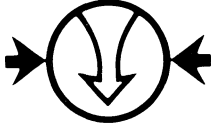
INTERNATIONAL SYMBOLS



FUEL PRESSURE



FUEL SHUTOFF



AIR PRESSURE



AIR FILTER



OUTSIDE AIR CIRCULATION



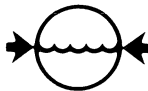
ON



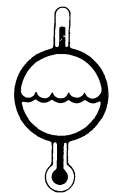
OFF



COOLANT LEVEL



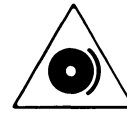
COOLANT PRESSURE



COOLANT TEMPERATURE



BRAKE



BRAKE – EMERGENCY



AMMETER OR ALTERNATOR



OIL PRESSURE



LEVER – MOVEMENT



STEERING



TURN – LEFT



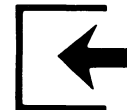
TURN – RIGHT



TRACTOR – FORWARD



TRACTOR – REVERSE

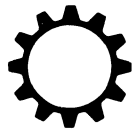


ENGAGE



DISENGAGE

INTERNATIONAL SYMBOLS



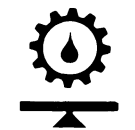
TRANSMISSION OR
CONVERTER



TRANSMISSION OR
CONVERTER OIL



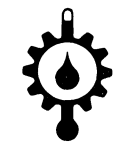
TRANSMISSION OR
CONVERTER OIL FILTER



TRANSMISSION OR
CONVERTER OIL LEVEL



TRANSMISSION OR
CONVERTER OIL
PRESSURE



TRANSMISSION OR
CONVERTER OIL
TEMPERATURE



TRANSMISSION DRIVE
OIL LEVEL



TRANSMISSION DRIVE
OIL TEMPERATURE



TRANSMISSION
CONTROL OIL PRESSURE



HYDRAULIC OIL
FILTER



HYDRAULIC OIL
LEVEL



HYDRAULIC OIL
TEMPERATURE



ENGINE OIL



ENGINE OIL
FILTER



ENGINE OIL
LEVEL



ENGINE OIL
PRESSURE



ENGINE – HEAT



ENGINE – START OR
RUNNING



ENGINE – STOP OR
NOT RUNNING



FUEL TANK



FUEL FILTER



FUEL LEVEL

INTERNATIONAL SYMBOLS



HOURS



WINDSHIELD
WIPER CONTROL



WINDSHIELD
WASHER CONTROL



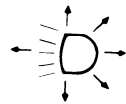
HORN CONTROL



COOLER CONTROL



HEATER CONTROL



LIGHT – ALL



LIGHT – BRIGHT



LIGHT – DIM



LIGHT – PARK



LIGHT – INSTRUMENT



FAST



SLOW

Contents

Foreword 1,2
Safety 3-6
Specifications 7-16
Operating Information 17-52
Service & Maintenance 53-86
Troubleshooting 87-92
Index 93,94

Buy Now



Our support email:

ebooklibonline@outlook.com