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Caterpillar

Operator's Manual

966 Traxcavator

S/N 33A1

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CT-O-966TX33A1

Operator's Manual

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MANUAL PREVIEW



966 TRAXCAVATOR - RIGHT FRONT VIEW

1-Tool compartment. 2-Parking brake. 3-Bucket control levers. 4-Bucket lift arms.
5-Bucket control linkage. 6-Bucket cutting edge. 7-Bucket. 8-Bucket positioner.
9-Bucket tilt cylinder. 10-Hydraulic tank filler.

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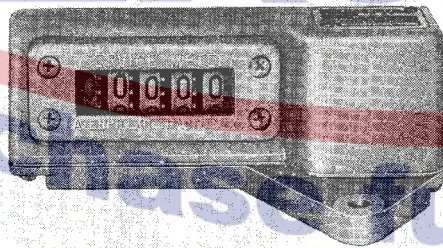
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Lubrication Instructions

SERVICE METER

The Service Meter is located on the fuel transfer pump on later machines and on earlier machines at the front of the engine on the timing gear housing. It is geared to the engine, and when the crankshaft turns as many revolutions as are made in an hour at average operating speeds on an average job application, the dial advances one number. There are some applications that will result in either a lower or higher than normal average engine speed. Under this condition, the advance in the Service Meter reading will differ from the number of clock hours of operation.

The purpose of the Service Meter is to indicate when to perform the recommended maintenance and lubrication operations. The established intervals in the lubrication chart and maintenance instructions are given in service hours, so daily readings will tell when to service the Traxcavator. Rely on the Service Meter and not on the clock to measure service intervals.



SERVICE METER

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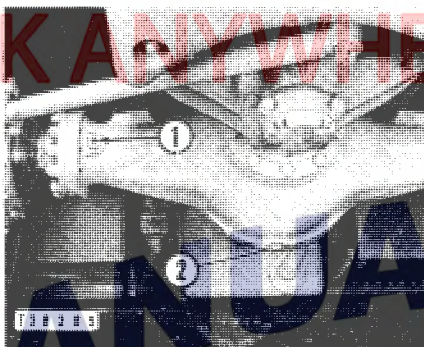
GENERAL LUBRICATING INFORMATION

Naturally, any precaution taken during cold weather to house the Traxcavator, cover it with a tarpaulin, or warm it before starting, will cause more rapid oil distribution.

Lubricate all miscellaneous points, not equipped with fittings, with crankcase lubricating oil every 50 service hours.

Careful attention was given to the design of the hydraulic system to guard against oil leaks. Connections were eliminated where possible and metal to metal joints, with rubber ring seals, are used instead of the usual pipe thread joints. Oil leaks should not be neglected as the loss of oil is an unnecessary expense as well as a possible cause of damage to the hydraulic system.

CO Crankcase Lubricating Oil

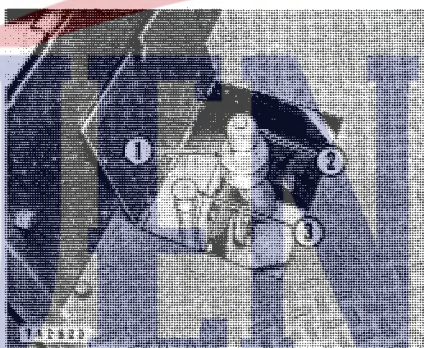


1 REAR DIFFERENTIAL

Use Superior Lubricants (Series 3) Only

Check oil level in the differential housing every 250 service hours by removing the filler plug (1). Oil should be to the level of the plug opening.

Every 1000 service hours, drain and wash the differential compartment. To drain, remove the drain plug (2) and the filler plug (1). Clean the drain plug before installing, then refill the compartment to the level of plug (1).

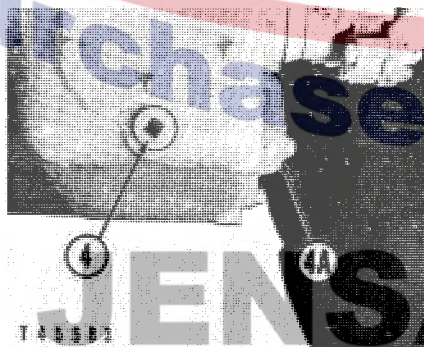


5 TRANSMISSION

Use Superior Lubricants (Series 3) Only

Check oil level every 10 service hours with the engine running at low idle speed, transmission in neutral, parking brake on and Traxcavator level. Keep oil level up to full mark on gauge (3). Refill or replenish with oil at (1).

Remove, wash and oil breather (2) every 250 service hours.

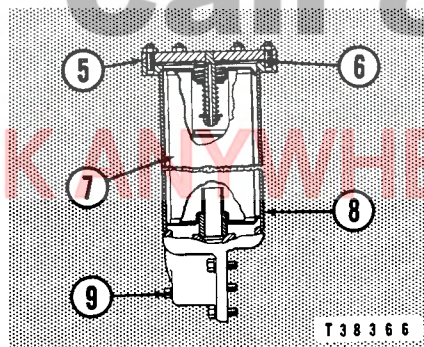


5 TRANSMISSION

Use Superior Lubricants (Series 3) Only

Every 1000 service hours, remove the plug (4) to drain the transmission. Remove the cover (4A) and the screen. Clean the screen and install the screen and cover, using a new gasket if necessary. Install the drain plug and fill the transmission to the correct level.

When extreme loads and high temperatures are encountered it may be necessary to change oil every 500 service hours. This can be determined by examining the oil on the oil level gauge and if it appears to be extremely thick and black the oil should be changed.



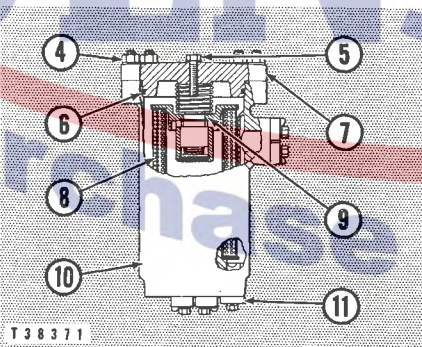
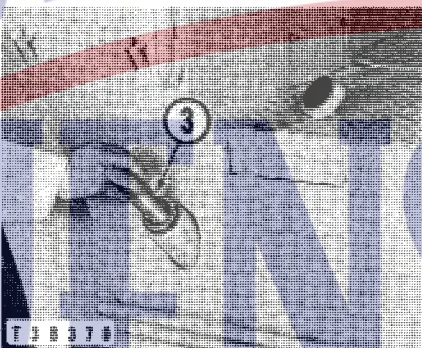
5 TRANSMISSION

Use Superior Lubricants (Series 3) Only

Every 250 service hours change the element in the transmission full flow oil filter. Remove the plug (9) and the cover (5) to drain the unfiltered oil from the housing (8). Discard the element (7) and install a new Caterpillar element. Inspect the seal (6) and install a new seal if necessary. Operate the engine a few minutes to refill the filter housing, then check the level and add oil if necessary.

Change the filter element after the first 50 service hours of a new Traxcavator or of a reconditioned transmission.

CO Crankcase Lubricating Oil



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HYDRAULIC SYSTEM

Use Superior Lubricants (Series 3) or
MIL-L-2104A Oil

Drain the hydraulic system every 2000 service hours when oil is warm. Drive the front wheels on 4 inch blocks, raise the bucket to the upper limit and completely dump the bucket. Place a 20 inch wooden block on the ground so the bucket cutting edge will contact the block and tilt back the bucket when draining the system.

Return the control levers to hold position. Stop the engine.

Remove the filler cap to relieve pressure within the tank. Remove the drain plug (2). After oil has drained from the tank, move the bucket lift control lever to the lowering position until the bucket rests on the wooden block, then into float position. Move the bucket tilt control lever to the tilt back position and hold until the bucket is completely lowered. This will satisfactorily drain the system. Clean the magnetic drain plug, make sure the ring seal is in place and reinstall in the hydraulic control tank.

Remove and clean oil filler strainer (3) during each oil change.

Replace the filter element after the first 125 service hours of operation and every 500 service hours thereafter.

To replace the filter, remove the drain plate (11) from the filter base to drain the unfiltered oil. To remove the cover (7), remove the stud nuts (4) and the bolt (5). Position the puller bar supplied in the tool equipment across the filter so it rests on two opposite studs, and insert the bolt (5) through the hole in the bar and into the cover (7). Tighten the bolt (5) to pull the cover from the filter housing (10).

Remove the by-pass valve housing (9) and replace the filter element (8) with a new Caterpillar filter element. Reinstall the by-pass valve and replace the ring seal (6) if it is damaged.

Loosen the bolt (5) and fill the hydraulic tank. Install the filler cap (1) loosely so entrapped air can escape. Start the engine and run at half engine speed. When oil appears without air bubbles at bolt (5), tighten the bolt. Using the lift and tilt control levers, first raise the bucket approximately 4 feet, then place it in the dumped position. Fill the hydraulic tank and loosen the bolt (5) to bleed any remaining air from the filter. When oil flows without air bubbles, tighten the bolt. Return the bucket to the tilt back position. Raise the bucket completely, then lower it to the ground.

To prevent air circulating in the system, do not operate over relief valve pressure or allow the bucket lift control lever to go into "float" position.

With the bucket resting on the ground remove the filler cap and fill the hydraulic control tank. Install the filler cap and tighten.

With the engine running at high idle speed, raise, dump and lower the bucket 10 times. This will force any small amounts of air which might be in the system into the hydraulic control tank. Back the machine off the block and again check the oil level and fill if necessary.

Check the oil level and bleed the system several times during the first day of operation after filling.