Caterpillar

Operator's Manual

977 Traxcavator

S/n 53A1 & up

Operator's Manual

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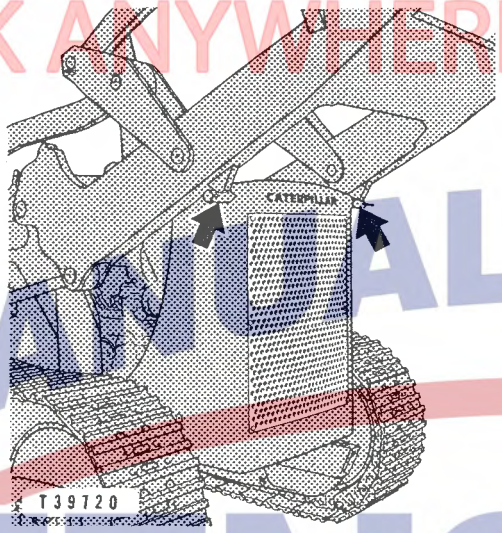

WARNING

When it is necessary to perform any work on the machine with the bucket raised, extend the lift arm support pins to prevent the bucket from accidentally dropping.

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977 TRAXCAVATOR — RIGHT FRONT VIEW

1–Diesel fuel tank filler cap. 2–Bucket tilt control lever. 3–Bucket lift control lever. 4–Bucket lift kickout lever. 5–Lift arm support pin. 6–Bucket. 7–Hydraulic control tank. 8–Bucket positioner. 9–Bucket tilt hydraulic cylinder. 10–Bucket lift hydraulic cylinder. 11–Bucket lift arm. 12–Bucket tilt control linkage.

Identification of Points Of Lubrication, Lubricant To Apply And Interval Of Service

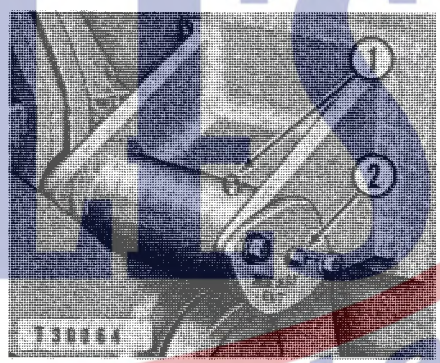
	Point and Identification	Lubricant	SERVICE HOURS 10	50	2000
A	SIDE DUMP BUCKET PIVOT POINTS	BR	X		
B	SIDE DUMP BUCKET LATCH ASSEMBLY	CO		X	
C	AUXILIARY HYDRAULIC CONTROL LEVER	BR			X
D	MULTI-PURPOSE BUCKET HYDRAULIC CYLINDER AND PISTON ROD BEARINGS	BR	X		
E	MULTI-PURPOSE BUCKET BOWL BEARINGS	BR	X		

CO Crankcase Lubricating Oil

B

SIDE DUMP BUCKET LATCH ASSEMBLY

Every 50 service hours check and refill if necessary. Fill through the opening of plug (1) until oil appears at opening of plug (2).



BR Ball and Roller Bearing Lubricant

A

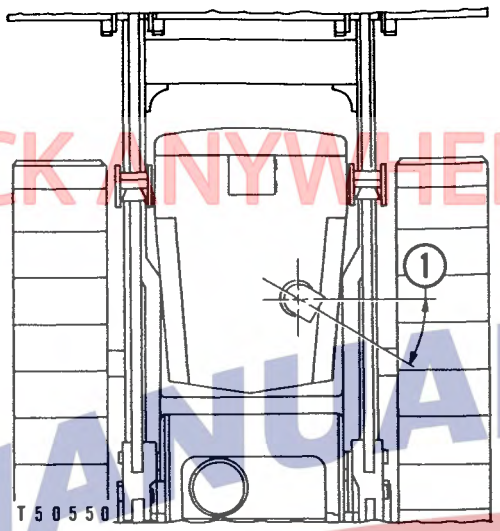
SIDE DUMP BUCKET PIVOT POINTS

Lubricate the pivot points every 10 service hours.

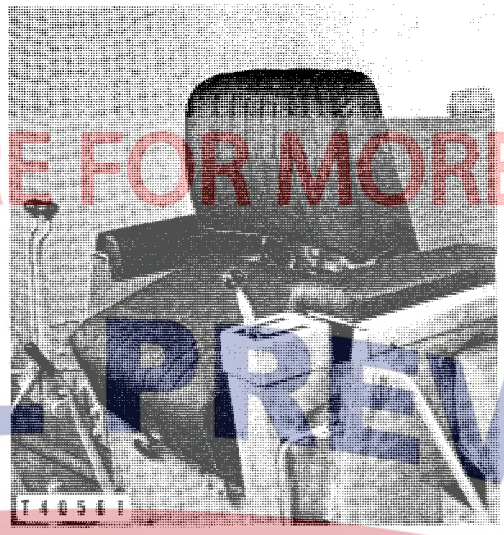
C

AUXILIARY HYDRAULIC CONTROL LEVER

Lubricate every 2000 service hours. One fitting.



POSITIONING EXHAUST PIPE
1–Approximately 30°.



SEAT CUSHION TIPPED
TO PROTECT PADDING

moisture entering the padding under the covering. If the cushion is turned bottom side up in rainy weather the padding under the water proof covering may become damp. This moisture with accumulated dirt and heat will shorten the life of the cushion.

STARTING IN COLD WEATHER

If the starting engine and the diesel engine are both in good mechanical condition, and the precautions necessary for cold weather operation are taken, ordinary cold weather will not cause difficulty in starting or loss of efficiency.

Lubricants: As the atmospheric temperatures become lower, where warm housing facilities are not available, lubricants of lower viscosity should be used. See the topic, TYPE OF LUBRICANTS AND SAE GRADES TO USE.

Coolant: When the temperature is below freezing, sufficient anti-freeze solution should be used in the cooling system to prevent freezing. See the topic, COOLING SYSTEM.

The liquid in the cooling system may be warmed to make starting easier and quicker. When warming anti-freeze solutions, keep away from flames, as some of these solutions may be inflammable. Avoid getting the solution hot, and even a warm solution should be poured very slowly into a cold system to prevent damage by sudden expansion.

Hydraulic System: In temperatures below freezing, extra precaution should be taken to insure adequate pump lubrication. Before starting the engine, remove the filler cap on the hydraulic tank to relieve any vacuum which might be in the tank. Replace the filler cap. Do not allow the engine to run over half engine speed until after five minutes when the oil in the

Steering Clutch Brake Adjustment: After the first 10 service hours and every 250 service hours thereafter, check and adjust the steering clutch brakes as follows:

1. Remove the brake adjusting screw cover, taking care not to damage the gasket.
2. Turn the adjusting screw **(1)** in (clockwise) until the brake band is tight on the brake drum.
3. Turn the adjusting screw out (counterclockwise) 1½ turns to provide proper clearance between the brake lining and the brake drum.

When properly adjusted, the brake pedals should have approximately 3 to 4 inches (7.6 to 10.2 cm.) free movement between the released and applied positions when checked by hand.

STEERING CLUTCH BRAKE ADJUSTMENT

1–Adjusting screw.

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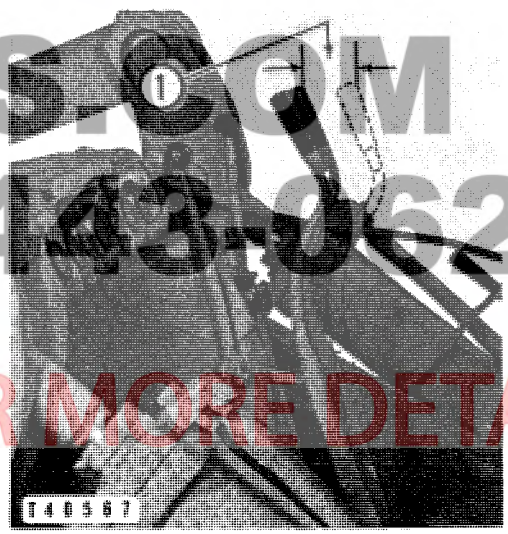
Machines Before 53A1907

The steering clutches should be kept in proper adjustment to insure full engagement of the clutches when the levers are in the tree forward



STEERING CLUTCH CONTROL LEVER FREE MOVEMENT

1–There should be 2⅜ to 2⅝ inches (6.04 to 6.67 cm.) free movement at this point.

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