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Caterpillar

Operator's Manual

D2

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CT-O-D2 4U1+

**OPERATION AND
MAINTENANCE
INSTRUCTIONS**

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MANUAL PREVIEW



D2 TRACTOR
(RIGHT FRONT VIEW)

1. Diesel fuel tank filler cap.
2. Gear selector lever.
3. Steering clutch control levers.
4. Governor control lever.
5. Diesel engine air cleaner.
6. Starting engine fuel tank filler cap.
7. Starting engine air cleaner.
8. Crankcase lubricating oil filter housing.
9. Sprocket.
10. Track carrier roller.
11. Track rollers.
12. Track roller frame.
13. Idler.

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CO Crankcase Lubricating Oil



10

DIESEL ENGINE CRANKCASE LUBRICATING OIL FILTER

On tractors effective with 4U4061 and 5U7377 or those equipped with full-flow crankcase lubricating oil filter change-over groups, remove the plug from the filter base to drain the unfiltered oil from the base and replace the filter element (5) with a new Caterpillar element at every 250 service hour interval. See the topic, "Crankcase Lubricating Oil System".



10

DIESEL ENGINE CRANKCASE

After draining crankcase refill at (6) and start the diesel engine. Run engine for two minutes then add oil to bring level to full mark on gauge.



10

DIESEL ENGINE CRANKCASE BREATHER

Wash breather element (7) each time crankcase oil is drained.

12

STARTING ENGINE AIR CLEANER

Inspect the oil in the air cleaner cup every 50 service hours. Wash and refill cup to oil level bead when oil will not flow freely or if the sediment in the cup is $\frac{1}{4}$ inch deep. See the topic, "Air Cleaners".



Refill the cup with the same S.A.E. grade of oil as is used in the diesel engine crankcase and the same type of oil may also be used. However, it is permissible to use clean, undiluted reclaimed oil or the most inexpensive straight mineral oil. See the topic, "Crankcase Lubricating Oil".

Ether capsules are of a definite size to limit the quantity of ether to be injected.

A discharger is used to inject ether into the inlet manifold. When the discharger lever is moved the metal capsule is pierced. Ether is forced out of the capsule by a small quantity of gas, under high pressure, into the inlet manifold to be taken into the cylinders for quick starting.

The engine must be kept in the best mechanical condition possible, the batteries kept fully charged and all terminals kept clean and tight for satisfactory performance of the starting system.



DISCONNECT SWITCH
IN ON POSITION

CONTROLS IN START POSITION
1-Flywheel clutch lever. 2-Governor
control lever. 3-Gear selector
lever.

Position Controls For Starting: Before attempting to start the diesel engine the controls should be correctly positioned as follows:

1. Disengage the flywheel clutch by pushing the lever (1) forward.
2. Shift the gear selector lever (3) to the neutral position.
3. Push down the right steering clutch brake pedal and lock it with the brake lock.
4. Move the governor control lever (2) to approximately half engine speed position.
5. Pull out and turn the disconnect switch handle to the horizontal position as shown and release it. A spring will then hold the switch on, in the horizontal position. The disconnect switch should be left in the horizontal position when the engine is running to charge the batteries.

CAUTION

Never open disconnect switch when engine is running, or damage to the voltage regulator may result.

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