

## LUBRICATION

operation, the lubricating oil undergoes changes which produce sludge, acids, gums, varnish, and other harmful by-products.

The purpose of the oil filter is to separate and remove the dirt and other foreign substances from the oil to prevent these injurious materials from being circulated to the engine.

This filter is so efficient it will keep the circulating oil free of harmful materials for 120 hours of operation—at which time the oil should be changed and the inexpensive filter element replaced. Refer to "Lubrication Guide" for the recommended oil to use for the prevailing temperature. By following the simple, common-sense procedure for keeping dirt and oil impurities away from precision-made engine parts, you will safeguard your tractor engine against undue wear and the operating troubles and upkeep expense which are a natural result of that condition.

### To Change the Filter Element

1. Do not change the element while the engine is running.

2. Remove the oil filter drain pipe cap (Illustr. 15) and allow the oil filter to drain completely.

3. Clean off filter cover "A" (Illustr. 15A) to prevent dirt from dropping into the filter when the cover is removed.

4. Unscrew and remove stud "B" and gasket "C" (Illustr. 15A).

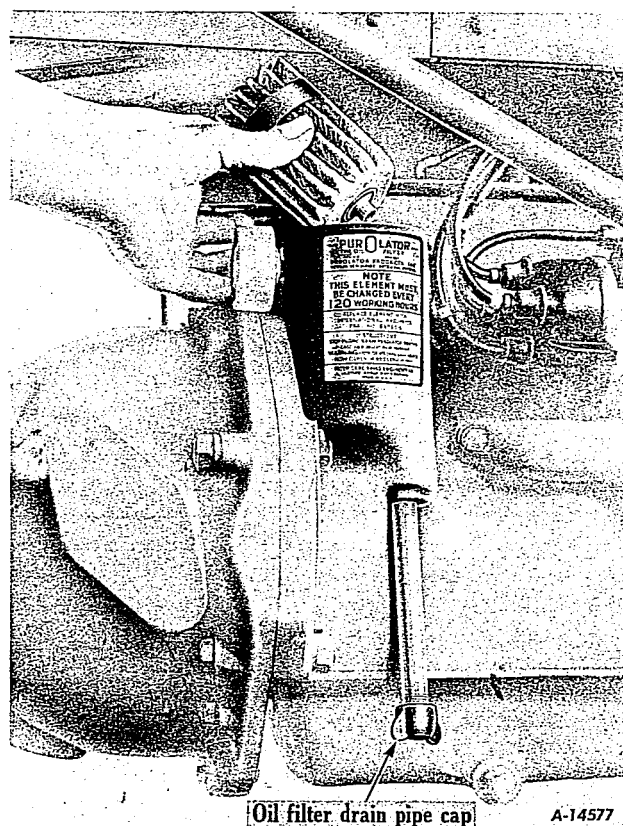
5. Lift up and remove filter cover "A" and gasket "D" (Illustr. 15A).

6. Remove the old element.

7. If the oil appears very dirty or sludgy when draining, flush out the filter with kerosene. Before flushing, however, replace the stud without the filter cover in order to prevent sludge from being flushed into the crankcase. When completely flushed and drained, replace the drain pipe cap.

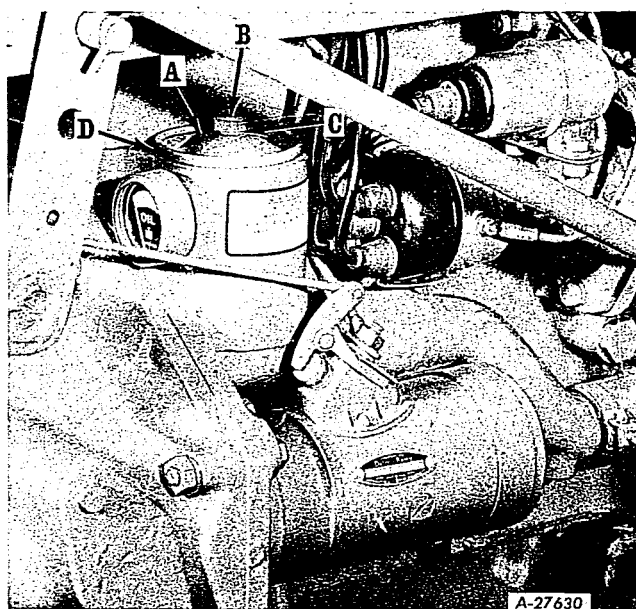
8. To install the new filter element, move gasket "C" up to the top of stud "B" and place cover "A," gasket "D" and the new element on the stud in their proper order. See Illustr. 15A. (Leave the retaining band on the element.) Then install the entire assembly and be sure that filter cover gasket "D" seats properly. Screw the stud into the filter base and tighten securely.

9. Check the oil level in the crankcase to see that the new oil is up to the proper level (see "Lubrication Guide"). Now start up the engine, check the oil pressure indicator to see whether sufficient oil is circulating through the engine, and inspect the filter for oil leaks.



Illustr. 15  
Installing the new oil filter element.

Note: To avoid delays, we recommend that you carry extra elements on hand so replacement can be made at the proper time.



Illustr. 15A  
Oil filter assembled.