

GREASES

SAE multipurpose type grease is recommended for all grease fittings and hand packing points on your tractor and its optional equipment.

SAE multipurpose type grease, made from lithium soap for extreme resistance to both heat and water washing, has a broad range of uses.

Single applications of these greases provide lubrication for a relatively long period and serve the important function of helping to keep contamination out of bearings.

STORING LUBRICANTS

Use clean containers to store and handle all lubricants. The tractor can operate at top efficiency only if clean lubricants are used.

The tractor is equipped with safeguards, such as the air cleaner and oil filter, which are designed to keep dust, dirt, and other abrasives from reaching operating parts. Clean lubricants will help these safeguards do their jobs properly.

LUBRICATION AND SERVICE INTERVALS

The lubrication and service periods for the tractor are daily or every 10 hours, every 100 hours, every 200 hours, every 600 hours, every 1200 hours, and every spring and fall season. These intervals are based on operation under normal conditions. When the tractor is operated under unusual conditions, such as excessive heat, cold or dust, the tractor should be checked and serviced at more frequent intervals.

The chart on the following pages is a condensed list of the tractor components to be serviced at each interval and the service to be performed.

LUBRICATION TIMETABLE

| Component | Description of Service | Capacity or Measurement | Description of Lubricant |
|-----------|------------------------|-------------------------|--------------------------|
|-----------|------------------------|-------------------------|--------------------------|

EVERY 10 HOURS

| | | | |
|------------------------------------------------|----------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crankcase | Check oil level with dipstick | To "Full" mark | Oil types: DM or DS (diesel); MS (gasoline) Above 90°F: SAE 30 or 20W-40 32°F. to 90°F: SAE 20W or 10W-30 -10°F. to 32°F: SAE 10W or 10W-30 Below -10°F: SAE 5W or 5W-20 |
| Air Cleaner | Check dirt and oil level in cup | To "Oil Level" line | Same as Crankcase (above) |
| Pre-cleaner | Clean out foreign material | ..... | ..... |
| Fuel Filter Sedi-ment Bowl (Diesel) (42001-up) | Drain out water or dirt deposits | ..... | ..... |
| Roll-O-Matic Front Wheels (Row-Crop) | Lubricate two fittings | Several strokes of grease gun | SAE multipurpose grease |
| Radiator | Check coolant level | Maintain midway between core and filler neck | See Section 80 |

EVERY 100 HOURS

| | | | |
|--------------------|------------------------------|---------------------------|------------------------------------------|
| Equalizer Lever | Lubricate one fitting | Two strokes of grease gun | SAE multipurpose grease |
| Hydraulic System | Check oil level at test cock | To level of test cock | John Deere Type 303 Special Purpose Oil* |
| *Or its equivalent | | | |

EVERY 100 HOURS—Continued

| Component | Description of Service | Capacity or Measurement | Description of Lubricant |
|------------------------------------|---------------------------|---------------------------|--------------------------|
| 3-Point Hitch | Lubricate grease fittings | Two strokes of grease gun | SAE multipurpose grease |
| Engine Clutch Throw-Out Bearing | Lubricate grease fitting | Two strokes of grease gun | SAE multipurpose grease |
| PTO Lever (-42000) | Lubricate grease fitting | Two strokes of grease gun | SAE multipurpose grease |

EVERY 200 HOURS

| | | | |
|---------------------------------------------------------------|------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| Air Cleaner Cap and Tube | Clean and rinse cap in solvent. Swab out tube. | ..... | ..... |
| Battery | Check level of electrolyte in each cell | Fill each cell to level above plates | Distilled water |
| Belt Pulley | Check oil level at filler hole | To level of filler hole | SAE 80 multipurpose lubricant |
| Crankcase | Drain and refill | 5 U.S. Quarts (including filter) | Same as crankcase (Every 10 hrs.) |
| Crankcase Oil Filter | Change element | ..... | ..... |
| 540 Rpm Power-shaft (All tractors -42000); (O and U 42001-Up) | Check oil level at filler hole | To level of filler hole | SAE 80 multipurpose lubricant |
| Wide Front Axle | Lubricate grease fittings | Two strokes of grease gun | SAE multipurpose grease |
| Single Front Wheel (Row-Crop) | Lubricate grease fitting | Several strokes of grease gun | SAE multipurpose grease |
| Final Drives | Check oil level at filler holes | To level of filler holes | SAE 80 multipurpose lubricant or John Deere Type 303 Special Purpose Oil* |
| Generator | Fill oil cups | ..... | SAE 10W or 5W-20 oil |
| Transmission-Differential | Check oil level at filler hole | To top of filler hole | SAE 80 multipurpose lubricant or John Deere Type 303 Special Purpose Oil* |
| Steering Housing | Check oil level at filler hole | 1/8-inch below top of hole | John Deere Type 395 Steering Gear Lubricant |
| Power Steering Cylinder Housing | Check oil level at filler hole | To bottom of filler hole | SAE 80 multipurpose lubricant |
| Upper Steering Spindle (Row-Crop) | Check oil level at filler hole | To level of filler hole | SAE 80 multipurpose lubricant |
| Front End Support (Row-Crop with power steering) | Lubricate grease fitting | Several strokes of grease gun | SAE multipurpose grease |
| Distributor Cam Shaft (-42000) (Delco-Remy only) | Lubricate cam | Trace | High-temperature grease |
| Wick (-42000) (Delco-Remy only) | Fill reservoir | To filler hole | Engine oil |
| | Apply oil to wick | 4 - 5 drops | Engine oil |

*Or its equivalent.

EVERY 600 HOURS

| Component | Description of Service | Capacity or Measurement | Description of Lubricant |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Crankcase Vent Tube | Swab out tube | ..... | ..... |
| Diesel Fuel Filter | Change element (1st stage only -42000) | ..... | ..... |
| Fuel Sediment Bowl (All gasoline) (Diesel -42000) | Clean bowl and strainer | ..... | ..... |
| Transmission-Differential | Drain, flush, and refill to level of filler hole | DUAL PTO: (O, RS, and U): 9 U.S. Qts. (-42000) 13 U.S. Qts. (42001-Up) (R and RU): 12 U.S. Qts. (-42000) 16 U.S. Qts. (42001-Up) 540 RPM PTO: (O, RS, U): 10 U.S. Qts. (-42000) 14 U.S. Qts. (42001-Up) (R, RU, and RUS): 13 U.S. Qts. (-42000) 17 U.S. Qts. (42001-Up) | SAE 80 multipurpose lubricant or John Deere Type 303 Special Purpose Oil* |
| Air Cleaner | Drain cup and rinse in solvent. Refill cup | To "Oil Level" line | Same as crankcase (Every 10 hrs.) |
| Belt Pulley | Drain, flush, and refill to level of filler hole | 3/4 U.S. Quart | SAE 80 multipurpose lubricant |
| Final Drives | Drain, flush, and refill to level of filler hole | 2-1/2 U.S. Pts. (U & O) 3-1/2 U.S. Pts. (RS) 3 U.S. Quarts (R, RU, RUS) | SAE 80 multipurpose lubricant or John Deere Type 303 Special Purpose Oil* |
| Power Steering Cylinder Housing Hydraulic System | Drain, flush, and refill to level of filler hole Drain, flush, and refill | Single: 4-1/2 U.S. Qts. Dual: 4-1/4 U.S. Qts. (R and RU) 5-1/2 U.S. Qts. (RS) | SAE 80 multipurpose lubricant John Deere Type 303 Special Purpose Oil* |
| 540 Rpm Power-shaft (All Tractors, -42000); (O and U, 42001-Up) | Drain, flush, and refill | 3/32 U.S. Pint | SAE 80 multipurpose lubricant |

EVERY 1200 HOURS

| | | | |
|------------------------------------|-----------------|----------------|-------------------------|
| Starter (Diesel) (Delco-Remy only) | Oil both wicks | Saturate wicks | SAE 10W or 5W-20 oil |
| Front Wheel Bearings | Repack bearings | ..... | SAE multipurpose grease |

EVERY SPRING AND FALL SEASON

| | | | |
|---------------------------------|---------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|
| Cooling System Engine crankcase | Drain, flush, and refill Drain, and refill. Replace filter | 2-3/4 U.S. gallons 5 U.S. Quarts including filter | See Section 80 Same as crankcase (10 hrs.) |
|---------------------------------|---------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|

*Or its equivalent

Group 10

DETAILED PERIODIC SERVICES

This group contains detailed instructions on items listed in the chart in Group 5.

10-HOUR SERVICE

1. CHECKING ENGINE CRANKCASE OIL LEVEL

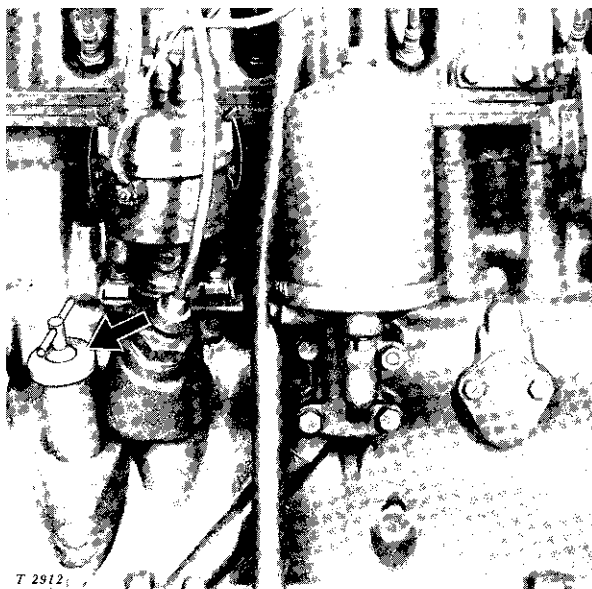


Fig. 30-10-1—Oil Filler Gauge

It is not necessary to add oil until crankcase oil level is down to "Add One Qt." mark on oil filler gauge, but do not operate tractor with oil level below "Add One Qt." mark on this gauge.

2. AIR CLEANER

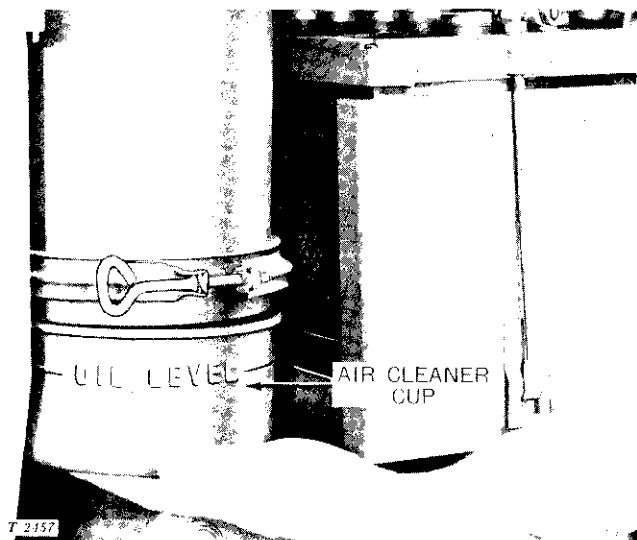


Fig. 30-10-2—Air Cleaner

The air cleaner requires inspection every 10 hours of tractor operation. Under extremely dusty conditions inspect cleaner twice a day, or more often if necessary.

To inspect, remove cowl support panel. Remove oil sediment cup from lower part of air cleaner. If the dirt in the bottom of the cup reaches 3/8-inch, or if the oil is too thick with suspended dirt to flow freely, clean out the cup. Wash sediment cup in cleaning solvent or kerosene. Refill cup with new oil to oil level mark. Use oil of same viscosity as used in the crankcase.

If the oil appears clean but the oil level is below the level line, merely add oil of the proper viscosity and quality to bring the oil to the proper level.

CAUTION : If oil level is above level mark on cup, oil will be drawn from air cleaner into engine.

When inspecting air cleaner, check connecting hose. Connections should be tight at all times. Tight connections will permit engine to breathe washed air through air cleaner instead of dirty air through leaks in hose connections.

NOTE: Do not service air cleaner with engine running.

3. PRECLEANER ATTACHMENT

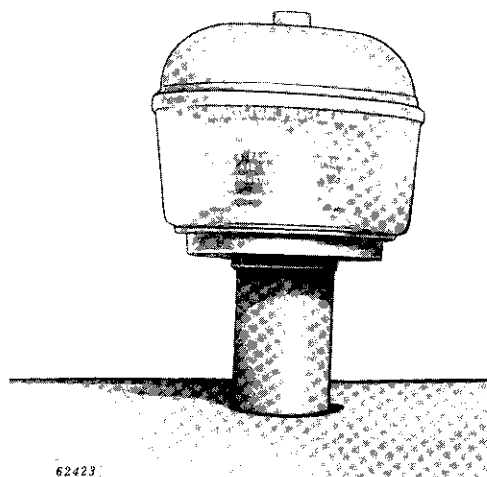


Fig. 30-10-3—Pre-Cleaner

The precleaner attachment removes the larger particles of foreign material from air drawn into the air cleaner. Every 10 hours, the precleaner should be checked and emptied if accumulation of foreign material is up to mark on plastic bowl. Under extreme conditions, it will be necessary to remove and clean unit more

100-HOUR SERVICE

4. EQUALIZER LEVER

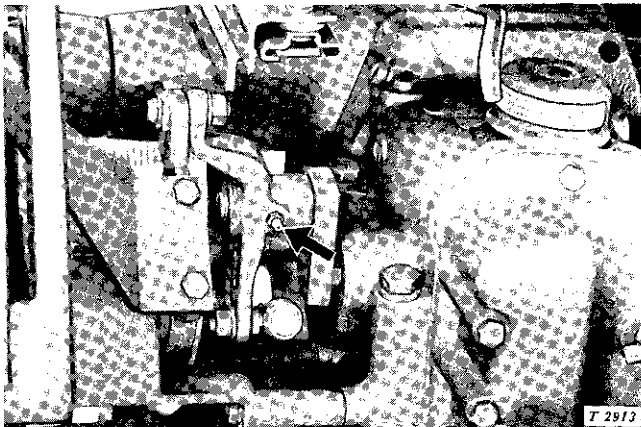


Fig. 30-10-4—Equalizer Lever Grease Fitting

At the end of 100 hours of operation lubricate the fitting on the equalizer lever near the hydraulic system controls.

5. HYDRAULIC SYSTEM

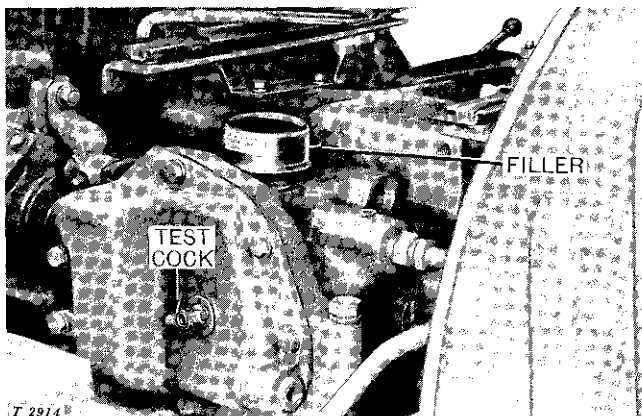


Fig. 30-10-5—Filler Cap and Test Cock (Utility Illustrated)

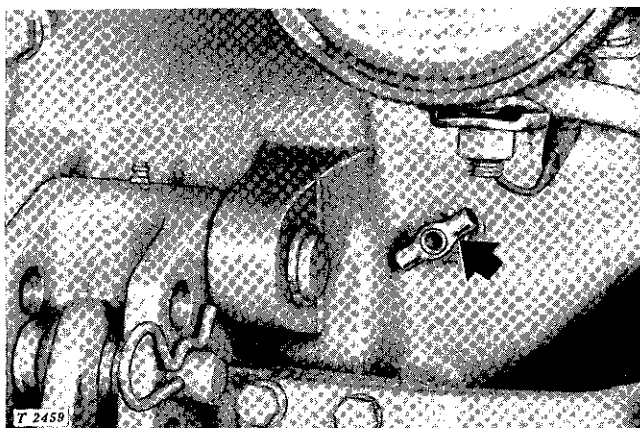


Fig. 30-10-6—Test Cock (Dual)

At the end of each 100 hours of operation, the oil level should be checked. To check the oil level, open test cock on front of housing on the single hydraulic system (rear on RU), or the test cock located on the rockshaft housing for tractors equipped with a dual hydraulic system. If no oil runs out of the test cock, add SAE 5W-20 oil at filler plug located at the top of the housing.

Cleanliness is the most important factor in adding or changing oil in the hydraulic system. One small particle of dirt beneath any of the valves may cause the entire system to be inoperative. It is recommended that only canned oil be used to assure that no dust or dirt will enter the hydraulic system with the oil.

Be sure oil used in hydraulic system is free from water. This will assure satisfactory operation and prevent water from freezing in system.

6. 3-POINT HITCH

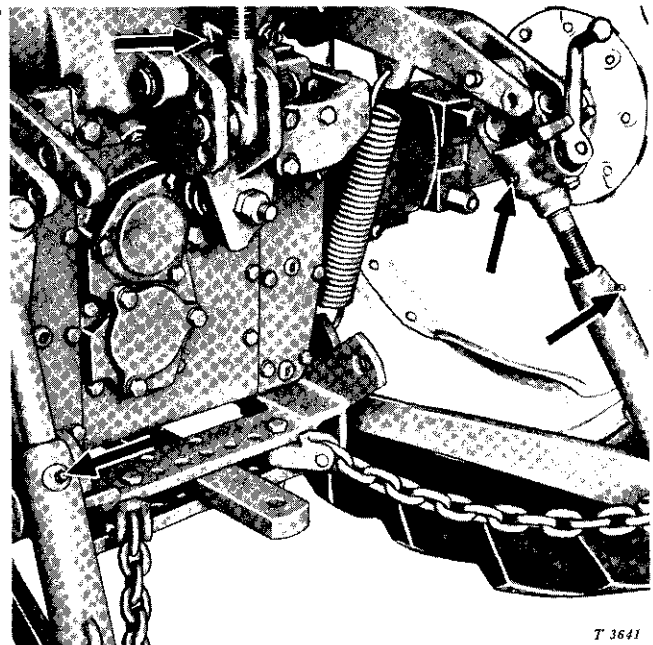


Fig. 30-10-7—3-Point Hitch Grease Fittings

At the end of 100 hours of operation, lubricate the fitting on the rear of the load control yoke. Also lubricate the three fittings on the right and left lift links. Use two shots of SAE multipurpose grease at each of these fittings.



Suggest:

If the above button click is invalid.

**Please download this document
first, and then click the above link
to download the complete manual.**

Thank you so much for reading