



Caterpillar Operator's Manual D8 Crawler

**S/n 22A1 to 22A1425,
36A1 to 36A5021,
35A1 & 52A1 & up**

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Operator's Manual

CT-O-D8 35A1+

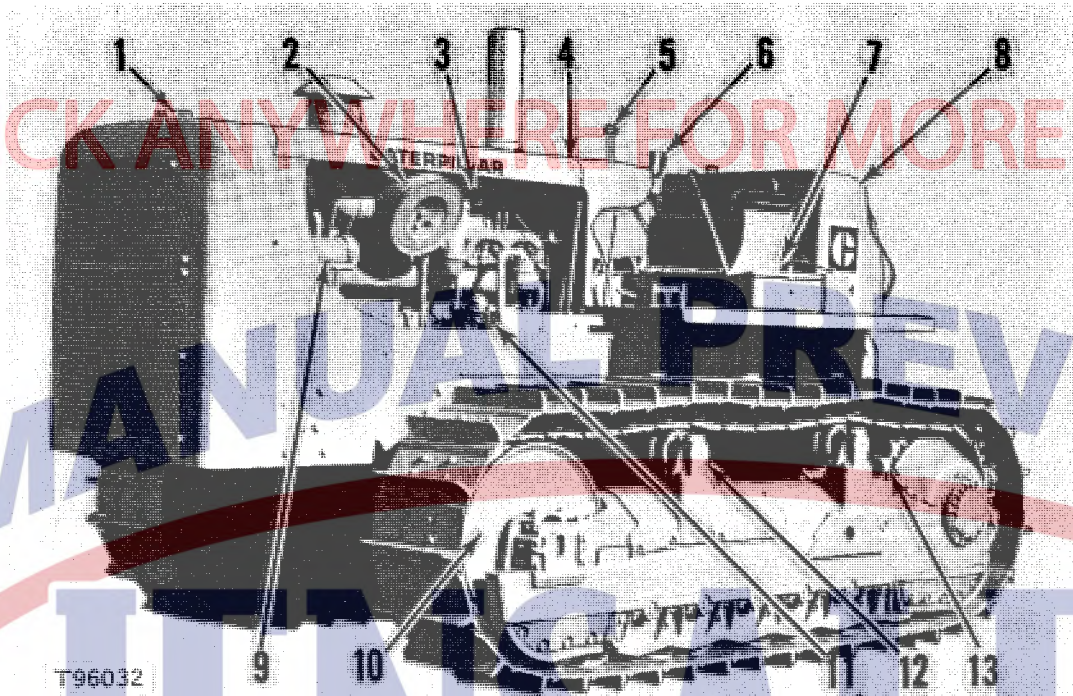
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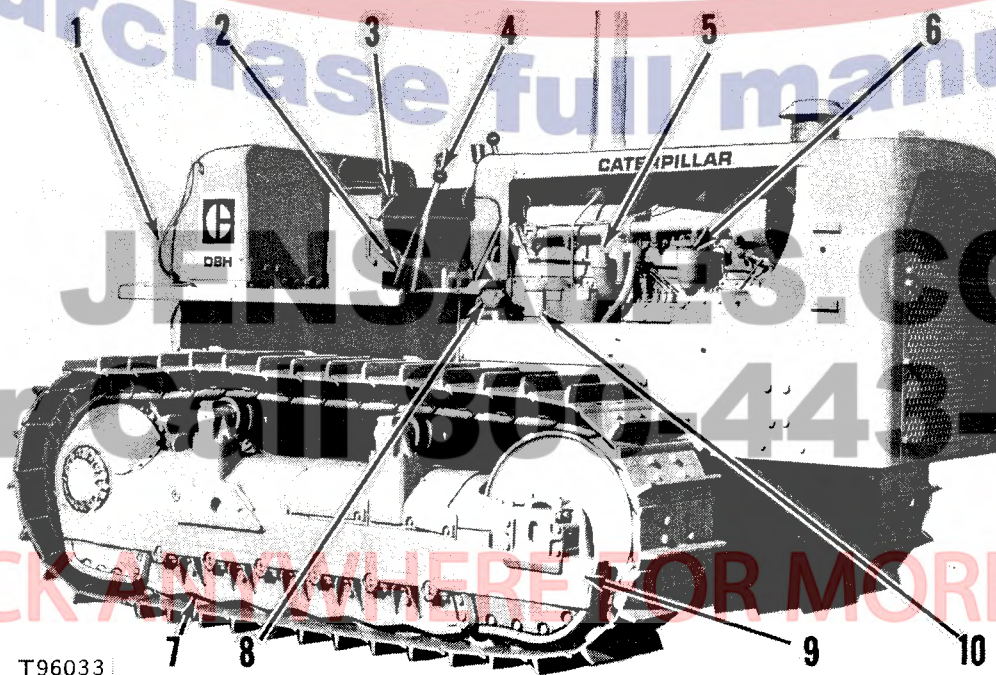
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D8 TRACTOR — LEFT VIEW

1-Radiator filler cap. 2-Diesel engine air cleaner. 3-Turbocharger. 4-Starting engine fuel tank filler cap. 5-Governor control lever. 6-Steering clutch control lever. 7-Battery box. 8-Fuel tank. 9-Generator. 10-Front idler. 11-Starting engine. 12-Track carrier roller. 13-Sprocket.



D8 TRACTOR — RIGHT VIEW

1-Handle. 2-Gear selector lever. 3-Steering clutch brake lock control. 4-Forward and reverse control lever. 5-Diesel engine crankcase filler cap. 6-Fuel filter. 7-Track roller. 8-Transmission oil pump. 9-Track roller frame. 10-Diesel engine crankcase lubricating oil filter.

DESCRIPTION OF LUBRICANTS

Crankcase Lubricating Oils

Superior Lubricants (Series 3): These are additive-type oils that have been certified for use in all Caterpillar Diesel Engines and other compartments as specified.

MIL-L-2104A or MIL-L-2104B Specifications Oils: These additive-type oils are milder than Superior Lubricants (Series 3) Oils and supplement Oils.

Straight Mineral Crankcase Lubricating Oil: Most of these oils will contain a very small concentration of oil additives.

Lubricating Grease

Multipurpose-Type Grease: This lubricant is a mixture of mineral oil and metallic or non-metallic thickeners.

Use NLGI No. 2 Grade for most temperatures. For extremely low temperatures, use NLGI No. 0 or No. 1 Grade.

This grease can be applied to all points, such as chassis, wheel bearing, universal joint and other miscellaneous applications.

Diesel Engine Crankcase Lubricating Oil Change Periods

The crankcase lubricating oil change periods have been established to provide maximum service life.

Change the oil and filter elements after the first 10 service hours of operation of a reconditioned engine.

DIESEL ENGINE CRANKCASE LUBRICATING OIL CHANGE PERIOD CHART

Use Only Superior Lubricants (Series 3)

FUEL SULPHUR CONTENT	OIL CHANGE PERIOD*	FILTER ELEMENT CHANGE PERIOD*
0.4% or less	250 Service Hrs.	250 Service Hrs.
0.4% to 1.0%	125 Service Hrs.**	250 Service Hrs.

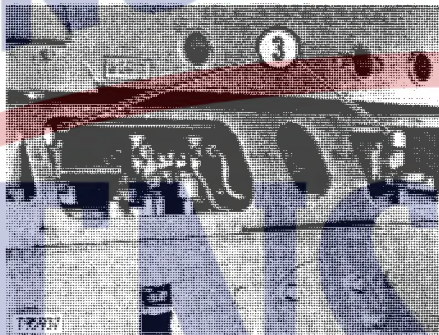
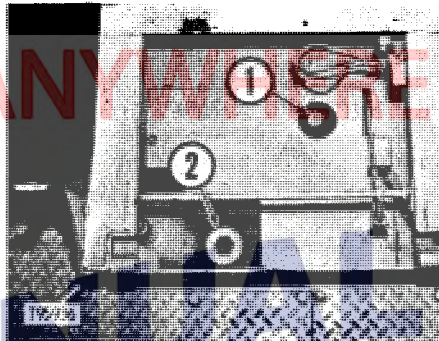
*Regardless of time operated, the crankcase oil and filter elements should be changed at least every six months.

**Reduce crankcase oil change periods one half when sulphur content is greater than 1.0%.

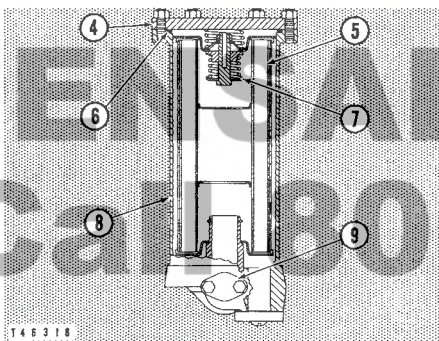
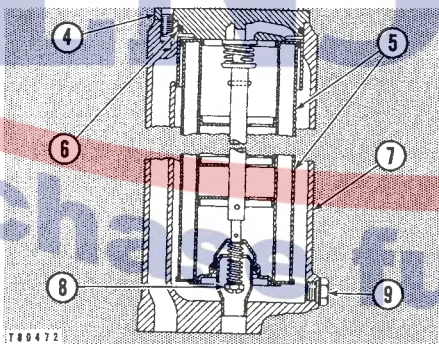
Type of Lubricants and SAE Grades to Use

The grade of oil is classified in terms of viscosity (fluidity or flow ability) and is identified with numbers called SAE numbers. Oils with lower SAE numbers are more fluid and flow more readily than do those with the higher numbers. Crankcase lubricating oils are recommended for use in gear compartments because of their superior oxidation and corrosion inhibitors. See the following chart for these recommendations.

CO Crankcase Lubricating Oil



Machines effective with
22A1426 and 36A4469



Machines before 22A1146 and
36A4469

To change filter elements on machines before 22A1146 and 36A4469: Remove drain cover (9), filter cover (4) and bypass valve (7). Remove element (5) from housing (8) and install a new Caterpillar element. Replace seal (6) if necessary and install the bypass filter cover. Clean and install the drain cover. Start and run the diesel engine for two minutes with the transmission in neutral, the flywheel clutch engaged, and the tractor level to fill the filter with oil. Check the oil level and add oil at (2) if necessary.

NOTE A: When operating under extreme conditions of tilt, a higher oil level may be required. See the "Capacities" and the topic, "Driving the Tractor."

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TRANSMISSION, BEVEL GEAR, FLYWHEEL CLUTCH AND STEERING CLUTCH COMPARTMENTS

NOTE: On machines before 22A1426 and 36A5022 the flywheel clutch is serviced as a separate compartment, and this topic applies to the "Transmission, Bevel Gear and Steering Clutch Compartment" only. See the topic, "Flywheel Clutch Compartment" following this topic.

Raise the seat and check the transmission oil level every 10 service hours with the diesel engine running at low idle speed, the transmission in neutral, the flywheel clutch engaged, and the tractor level. Oil should be up to the full mark on the gauge (1). Add oil at (2) if needed. See Note A.

Tractors equipped with 181 Hydraulic Control using transmission oil supply: Raise the bulldozer blade and extend the tilt cylinder rod fully before checking the oil level. Hydraulic controls having an oil supply tank are not connected to the transmission oil system.

Wash and oil the breathers (3) every 250 service hours. If equipped with plastic breather, discard old and replace with new breather every 1000 service hours. Wash and oil the breather on the flywheel clutch housing.

Every 250 service hours replace the filter element and clean the magnetic strainer if so equipped.

After the first 50 service hours operation of a new tractor or of a reconditioned transmission or steering clutch, and every 250 service hours thereafter, change the filter elements and clean the magnetic strainer if so equipped.

To change filter elements on machines effective with 22A1146 and 36A4469, remove drain plug (9), cover (4), and element (5) from housing (7). Inspect retainer seal (6) and install a new one if it is damaged. Install new Caterpillar elements and the cover, using a new seal (6) if necessary. Clean and inspect the drain plug, washer and seal and replace if necessary. Install the drain plug. Start and run the diesel engine for two minutes with the transmission in neutral, the flywheel clutch engaged and the tractor level to fill the filter with oil. Check the oil level and add oil if necessary.