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Caterpillar

Operator's Manual

Seventy-Five

Diesel

Operator's Manual

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Lubrication

The following tables recommend the viscosity or body of oils to be used where the lubrication chart specifies "crankcase lubricating oil" or "transmission lubricant."

CRANKCASE LUBRICATING OIL

Atmospheric Temperatures	S.A.E. Number
Above 32°F. (0°C.)	40 or 50
Below 32°F. (0°C.)	20 or 30

For continuous maximum loads when temperature is above 32°F. (0°C.) use S.A.E. 50 crankcase lubricating oil.

For the same load conditions, but when temperature is near or below 32°F. (0°C.) use the heaviest oil which will permit satisfactory starting and immediate oil circulation. To facilitate starting in cold weather the engine should be kept warm when not in operation, or it should be warmed before starting. Heating the liquid in the cooling system and also removing and heating the crankcase lubricating oil will likewise facilitate starting and insure immediate oil distribution. If possible the machine should be stored in a warm building, otherwise it should be covered with a tarpaulin under which a heater is kept burning to keep the temperature at a reasonably high point. When starting during cold weather the engine should be allowed to operate at a moderate speed (approximately 75% of rated r.p.m.) for at least fifteen minutes to insure adequate lubrication.

A major factor in determining the suitability of oils for use in cold weather is their ability to flow freely at low temperatures. For any atmospheric temperature below freezing, use a crankcase lubricating oil that has a low pour point. The pour point for any oil can be given by the Company that markets it.

TRANSMISSION LUBRICANT

Atmospheric Temperatures	S.A.E. Number
Above 32°F. (0°C.)	160
Below 32°F. (0°C.)	110 or 90

At all temperatures a transmission lubricant should be used that will flow freely and will not channel. In extremely cold weather, one of a lower viscosity than S.A.E. 90 may be needed. If this cannot be obtained, thin the lubricant by mixing in unused crankcase lubricating oil which has a low S.A.E. number and also a low pour point.

The draining of any compartment in preparation for refilling with fresh oil should be done when the oil is warm, as after a day's run. Any foreign substances will be in suspension and will drain out with the old oil.

DO NOT LUBRICATE TRACK

Under no circumstances should lubricant be used on the tracks. The initial stiffness between the links is not caused by lack of clearance between the track pins and bushings. This stiffness will disappear during normal operation of the tractor.

Chart Ref. No.	Name	Points of Lubrication	Kind of Lubricant	Attention Required
1	AIR CLEANER	1	Crankcase Oil	At intervals varying from every 5 hours to every 60 hours, depending on the amount of dust in the air, wash cup and refill to circular mark. Use same oil as used in crankcase of starting engine. Wash filter section every 300 hours. See topic, CARE OF AIR CLEANER.
2	STARTING ENGINE GOVERNOR HOUSING	1	Crankcase Oil	Lubricate every 10 hours through oil cup in top of housing.
3	STARTING ENGINE CRANK SPROCKET SHAFT BEARING	1	Semi-fluid Lubricant	Fill bearing every 10 hours.
4	FRONT IDLER	2	Transmission Lubricant	Fill bearings every 10 hours.
5	BENDIX SHAFT BEARING	2	Semi-fluid Lubricant	Fill bearings every 60 hours.
6	TRACK ROLLER	12	Transmission Lubricant	Fill bearings every 10 hours.
7	TRACK CARRIER ROLLER	4	Transmission Lubricant	Fill bearings every 10 hours.
8	TRACK ROLLER FRAME OUTER BEARING	2	Semi-fluid Lubricant	Fill bearings every 10 hours.
9	STEERING CLUTCH CONTROL LEVER SLEEVE AND SHAFT	1	Semi-fluid Lubricant	Fill bearings every 60 hours.
9	BRAKE PEDAL SHAFTS, FLY-WHEEL CLUTCH CONTROL LEVER SHAFT, AND STEERING CLUTCH CONTROL LEVER SHAFT INNER BEARING			Bushings are graphited and do not require lubrication.
10	TRACK			Do not lubricate.
11	FINAL DRIVE CASE	2	Transmission Lubricant	Check oil level every 10 hours. Fill until oil level is even with top of filler elbow. Drain, wash and refill with fresh oil every 900 hours. See topic, WASHING FINAL DRIVE CASES.
12	TRACK ROLLER FRAME INNER BEARING	2	Semi-fluid Lubricant	Fill bearings every 10 hours.
13	STEERING CLUTCH RELEASE BEARING	2	Crankcase Oil	Oil every 10 hours.
14	TRANSMISSION CASE	1	Transmission Lubricant	Check oil level every 10 hours. Fill until oil is even with oil level plug hole in right hand side of transmission case. Oil in bevel gear compartment adjusts itself to level in speed change gear compartment. Drain, wash and refill with fresh oil every 900 hours. See the topic, WASHING TRANSMISSION.

Chart Ref. No.	Name	Points of Lubrication	Kind of Lubricant	Attention Required
15	FLYWHEEL CLUTCH SHIFT COLLAR	1	Transmission Lubricant	Fill oil cup every 10 hours.
16	FLYWHEEL CLUTCH DRIVING PLATE BEARING	1	Semi-fluid Lubricant	Fill bearing every 60 hours. Turn flywheel with crank until fitting in driving plate can be seen through hole in floor plate. Grease passage is designed to receive a definite amount of lubricant. A plunger in the passage automatically limits the amount of grease that can be put in. When resistance is encountered during pumping operation of grease gun, it indicates bearing is full.
17	STARTING ENGINE TRANSMISSION SHAFT BEARING	1	Semi-fluid Lubricant	Fill bearing every 60 hours.
18	OIL PRESSURE GAUGE			If pressure fails to show, stop engine immediately and determine cause. Operating pressure when engine is warm is approximately 30 pounds.
19	STARTING ENGINE CRANKCASE AND BREATHER	1	Crankcase Oil	Keep oil level to "Full" mark on oil level gauge, check every 10 hours. Use S.A.E. 30 crankcase lubricating oil in summer and S.A.E. 20 in winter. Drain while hot and refill from every 120 hours to every 300 hours of tractor operation, depending on the amount of dust in the air and the length of time the starting engine has been run. Wash breather when changing oil.
20	FUEL PUMP HOUSING	1	Crankcase Oil	Fill until oil level is even with top of filler elbow. Drain and refill with fresh oil every 300 hours. Wash as outlined under the topic, WASHING FUEL PUMP HOUSING.
21	CRANKCASE	1	Crankcase Oil	Keep oil level to "Full" mark on oil level gauge. Check every 10 hours. Drain while hot and refill every 30 hours, when working under dusty conditions; otherwise every 60 hours. See topic, WASHING CRANKCASE. While crankcase is draining, wash crankcase oil filters. See topic, WASHING CRANKCASE OIL FILTERS. After crankcase is filled start engine and run it for about two minutes to allow oil to be pumped into filters. Then stop engine, check oil level, and if necessary refill to "Full" mark on gauge.
22	BREATHER	1	Crankcase Oil	In cold or damp weather remove drain plug in base of breather each time the oil in the crankcase is changed. Wash filter element every 300 hours. To wash, remove from base and shake in gasoline or kerosene. After washing pour about 1/4 pint* of oil through filter element.
23	FRONT ENGINE SUPPORT	1	Semi-fluid Lubricant	Fill bearing every 60 hours.
	MISCELLANEOUS		Crankcase Oil	Oil every 60 hours. Flywheel clutch hub, metal links and pins and all joints in control system not equipped with fittings, except the places where graphited bronze bushings are used.

* Equivalent to .12 Liter.