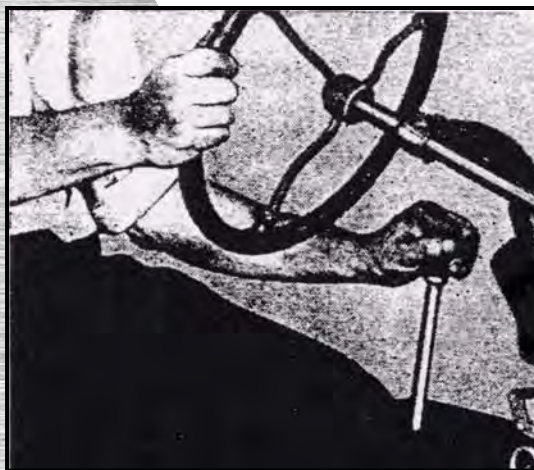




Caterpillar

Operator's Manual

D336 Engine

S/n 55B1 & Up



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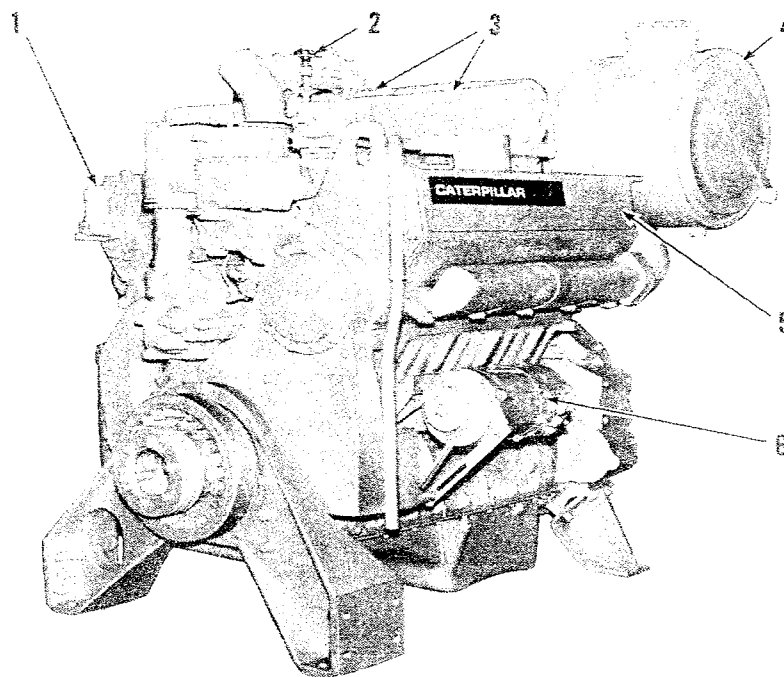
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Operator's Manual

CT-O-ENG D336

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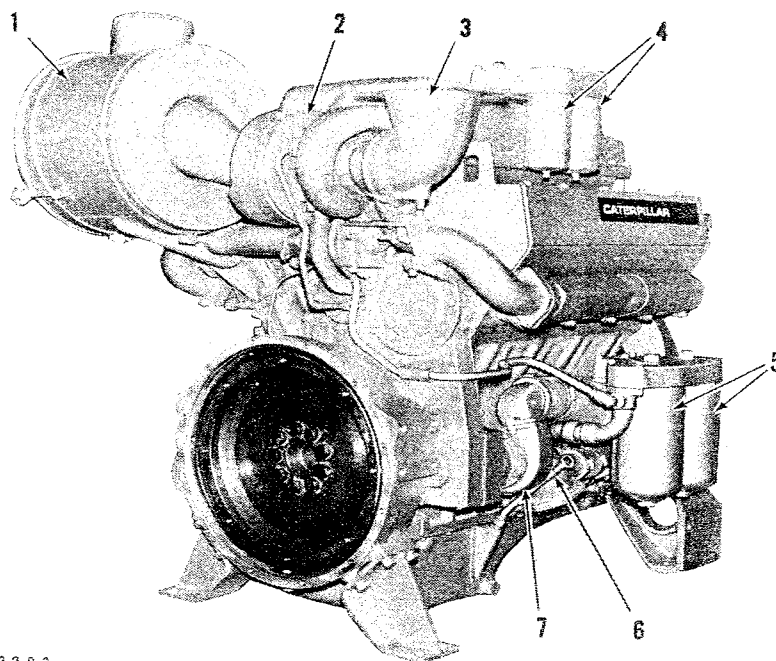
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T83201

D336 ENGINE — LEFT FRONT VIEW

1-Service meter. 2-Fuel priming pump. 3-Aftercoolers. 4-Dry type air cleaner. 5-Overhead camshaft and valve cover. 6-Charging alternator (attachment).



T83202

D336 ENGINE — RIGHT REAR VIEW

1-Dry type air cleaner. 2-Turbocharger. 3-Turbocharger exhaust elbow. 4-Diesel fuel filters (screw-on type). 5-Crankcase lubricating oil filters. 6-Crankcase oil level gauge. 7-Cooling system water pump.

pipled to the atmosphere is recommended. Greater lengths will cause excessive crankcase back pressure. Also in order to keep crankcase pressure low, the number of bends should be kept to a minimum. Loops and low spots in the tube should be avoided or improper crankcase breathing will result from trapped condensate in the loops and low spots.

EXHAUST LINES

Flexible connections should be used to prevent transmission of engine vibrations to exhaust piping. Flexible metal tubing is generally recommended for the exhaust connections at the engine. The exhaust outlet should be protected from the weather so that rain and snow cannot enter the line and get into the engine. The exhaust lines should be as short as possible. Long exhaust lines or lines with several bends should be of increased diameter so as not to create excessive back pressure. The back pressure should never exceed 15 inches of water on a new installation when measured with a manometer at the exhaust connection of the engine. Exhaust from the starting engine should be carried in a separate line and not connected into the diesel exhaust line. If the engine must stand without shelter, cover the exhaust pipe to exclude rain or snow.

BASE

A chart is available that gives the necessary dimensions for making an engine installation. A concrete base may be constructed which will be satisfactory for all average conditions. Where the soil is sandy or extremely wet, the concrete base should be proportionately increased in size both in length and width, to secure a firm and solid foundation. Reinforcing bars should be used to strengthen the walls especially at the corners.

Provisions should be made for draining the crankcase, either by providing a small pit for a container near the drain plug, or by extending the pipe and installing a shut-off valve close to the engine.

ELECTRICAL EQUIPMENT

Battery Installation: Storage batteries should not be placed on the deck. A rack high enough to place them in a comfortable position for maintenance should be built of wood or metal and heavily painted with an acid-resistant paint. The batteries should be located where heat from the engine or other source will not reach them and cause their temperature to become excessive. Storage battery ratings are based on a battery temperature of 77°F. If the area where the batteries are installed can be kept near this temperature, it will help in obtaining good engine cranking and good service life. Batteries should not be stored in a discharged state.

Point and Identification		Lubri- cant	Approximate Quantity (U.S. Measure)	No. of Service Points	SERVICE HOURS							
					10	50	125	200	250	1000	2000	*
1	DIESEL ENGINE CRANKCASE	CO	30 QTS.	1	X			†C				
	OIL FILTER ELEMENTS			2				†C				
	BREATHER UPPER AND LOWER ELEMENT			2				†W				

Attachments

A	ELECTRIC STARTING MOTORS	CO	SATURATE WICKS	3								L
	DRIVE END BEARING	CO	SATURATE WICK	1						L		L
B	AIR STARTING MOTOR DRIVE END BEARING	CO	SEE TOPIC A	1						L		L
	MOTOR OILER	CO	KEEP FILLED	1	X							
	GEAR DRIVE AND PLAIN END	BR		2								L
C	CHARGING ALTERNATOR	††		2								L
D	FAN BEARING	BR	NOTE A	1				L				
E	TACHOMETER DRIVE	BR	NOTE A	1					L			
F	ENCLOSED CLUTCH SHIFT COLLAR	BR	NOTE A	1	L							
	SHAFT BEARING	BR	NOTE A	1		L						
	SHIFT COLLAR SHAFT	BR		2		L						
	PILOT BEARING	BR	NOTE A	1			L					

Key to Lubricants:

CO CRANKCASE OIL

BR BALL AND ROLLER BEARING LUBRICANT

Key to Symbols:

C — CHANGE

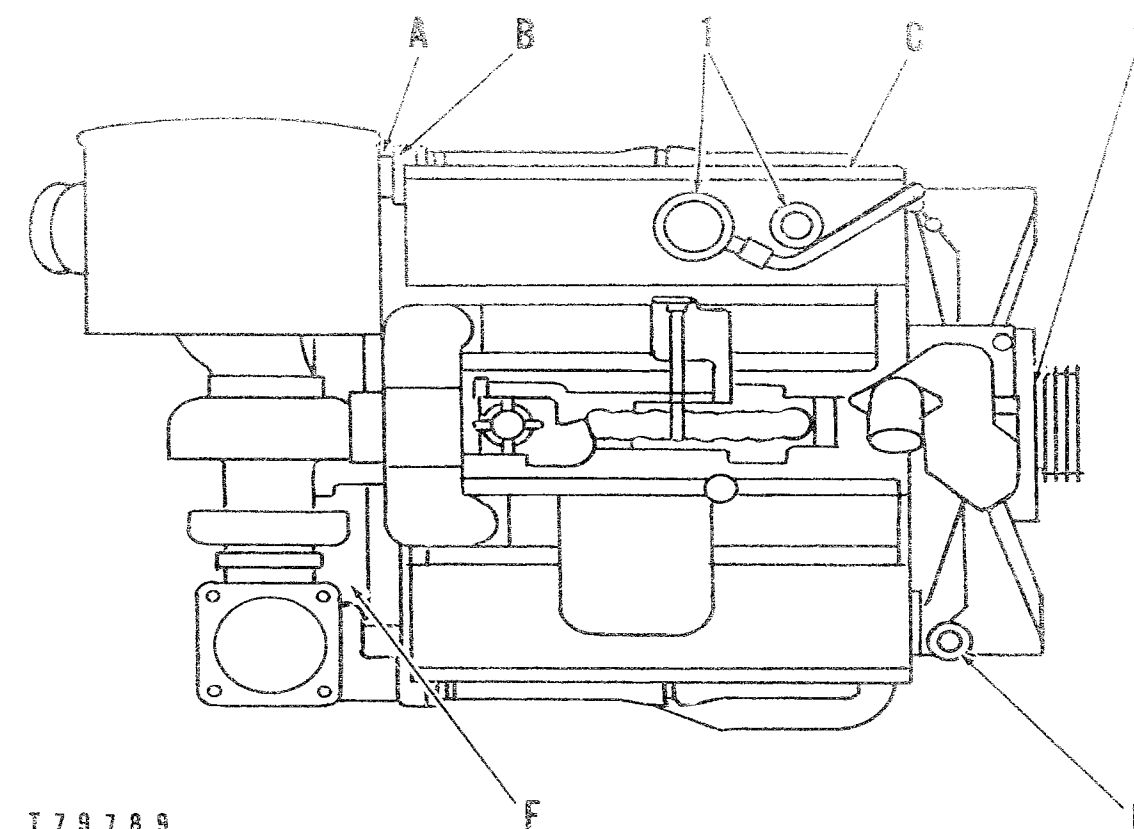
W — WASH

L — LUBRICATE

X — CHECK, ADD OIL WHEN NEEDED

D336 ENGINE LUBRICATION

SEE DETAILED INSTRUCTIONS ON FOLLOWING PAGES



T79789

STROKES SHOWN IN THE QUANTITY COLUMN OF CHART ARE TO BE INTERPRETED AS THE AMOUNT OF GREASE REQUIRED FROM THE LEVER TYPE GREASE GUN IN THE ATTACHMENT TOOL GROUP.

* WHENEVER DISASSEMBLED FOR CLEANING OR RECONDITIONING

† SEE CRANKCASE LUBRICATING OIL CHANGE PERIOD CHART.

†† SEE YOUR CATERPILLAR DEALER FOR SPECIAL LUBRICANT

NOTE A: LUBRICATE SPARINGLY.