

Maintenance Procedure
No. MP520

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TASK DESCRIPTION CHANGE LUBE OIL FILTER ELEMENTS (10)
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS MPI LOCOMOTIVE MAINTENANCE MANUAL, SECTION 5
SPECIAL TOOLS REQUIRED:
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS: CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:

PROCEDURE

1. Operate the diesel engine until oil is warm and circulating freely, then stop the engine and remove the starting fuse.

Note: Depending upon the temperature of the oil and system, adequate drainage of the lube oil filters can take from 1/2 hour for hot oil and a hot system to several hours for a cool system.

2. Remove the square cap from the engine-mounted lube oil strainer housing.
3. Raise and latch the gate valve handle in the engine strainer housing to drain oil from the filter housing into the engine sump. It is not necessary to move the valve handle that drains the oil strainer housing.
4. After enough time has elapsed to allow adequate drainage and easy handling of the filters, slightly loosen the nuts on the filter housing cover. Oil remaining at the bottom of the housing will leak into the drain pan. From there it is piped to the engine compartment drainage sump.
5. Place a container for used filter elements at a convenient location.
6. After oil has stopped draining from under the flat filter housing cover, loosen the retaining nuts and swing the hinge bolts clear of the cover. Swing the cover open. Remove and dispose of used filter elements.

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7. Clean out the interior of the filter housing using bound edge shop towels. Clean the drain pan and surrounding area.
8. Insert a set of 10 new filter elements. Make certain that the elements are fully seated over the standpipes.
9. When the filter elements are properly inserted, place a new gasket into the circular groove in the housing cover. Discard the used gasket.
10. Ensure the guide hole in the filter cover must mate with a dowel on the filter housing body. Close the cover.
11. Swing the hinge bolts into place and tighten the hold-down nuts.
12. Close the filter drain gate valve at the oil strainer.
13. Add oil to the engine through the strainer housing.
14. Oil level should be above the full mark on the dipstick with the engine shut down.
15. Start the engine and allow it to run at idle speed.
16. Check the oil level at the dipstick. Add oil if necessary.
17. Inspect for oil leaks at the filter housing. Tighten the hold-down nuts as necessary to stop any leaks.

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