



TECHNICAL NOTE

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Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

CLEANING ANTIFREEZE FROM THE CRANKCASE OF A GASOLINE OR DIESEL ENGINE

Antifreeze leaking into the engine crankcase and mixing with cylinder oil creates a critical condition which can result in failure and costly repairs.

First - the cause of the leakage must be identified and repaired.

Then - drain the engine and purge it as follows:

1. After draining the crankcase, remove the filter cartridge. Reassemble the filter without a cartridge.
2. Fill the crankcase with a mixture of:
 - a. One part Butyl Cellosolve or equivalent.
 - b. Two parts SAE 10 engine oil.

Start the engine and let idle for 30 to 60 minutes.

3. Drain the crankcase thoroughly.
 - a. Refill with SAE 10 straight mineral engine oil.
 - b. Start the engine and let idle 10 to 15 minutes.
4. Drain the crankcase thoroughly.
 - a. Refill with 9000 series oil in the weight specified by the manufacturer.
5. Install a new oil filter cartridge.

NOTE: Butyl Cellosolve can be purchased from Great Western Chemical Company, 3720 N. Yeon Avenue, Portland, Oregon.