

Converting Extended Life Coolant to Conventional Coolant

Category: Coolants
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Introduction:

This bulletin will provide specific information about converting power units filled with Extended Life Coolant (NOAT - Nitrited Organic Acid Technology) to Conventional Coolant. It should be noted that many customers have expressed concerns about "contamination" of the Extended Life Coolant, how to avoid maintaining stock of different types of coolants and SCAs, and how to simplify the coolant maintenance procedures for a fleet. The steps in this bulletin, if followed, will render the Extended Life Coolant inactive and, instead, commit the system to Conventional Coolant. Further, it will resolve all questions about contamination, maintaining additional stock, and maintenance procedures.

Penray's Recommendation:

1. Test the freeze point

- A. Using a refractometer, test the freeze point of the coolant. If the freeze point is between -25F and -50F, proceed to step 2. If the freeze point is outside of this range, adjust it using a coolant adjustment chart. (If you do not have a coolant adjustment chart, you may locate one on our website at www.penray.com/coolantchart)

2. Drain 30% of the coolant

- A. Follow the chart below to determine the correct amount of coolant to drain.

Cooling System Capacity (in gallons)

	8	9	10	11	12	13	14	15	16	17	18	19	20
Amount to Drain (in gallons)	2.5	3.0	3.0	3.5	3.5	4.0	4.5	4.5	5.0	5.0	5.5	6.0	6.0

3. Replace the drained coolant

- A. Replace the drained coolant with a 50/50 mix of Fully Formulated Coolant, like Fleetcharge®, and water.

4. Add two pints of Pencool® 3000 with Stabil-Aid® Engine Cooling System Treatment

- A. Top off your system with two pints of Pencool 3000.

5. Remove any Extended Life Coolant indicators

- A. Many power units have stickers denoting the use of Extended Life Coolant. Remove or replace these stickers to avoid any confusion in the future. (Penray stocks a sticker. That can be ordered by calling Penray at 800.322.2143)

5. This system is now a conventional system.

- A. Service the cooling system on this power unit as you would any other Conventional Coolant system. Penray Heavy Duty Test Strips can and should be used to regularly check the freeze point and nitrite levels. Finally, there is no longer any concern about contaminating your system with non-Extended Life Coolants.

For more information about maintaining the cooling system in your power unit, resource the Penray Technical Bulletins on our website at www.penray.com/bulletins, or call your local Penray representative.