



NEED-RELEASE® Filters

Penray Fill-For-Life® Coolant Program

Q. WHAT IS A Fill-For-Life® PROGRAM?

A. Fill-For-Life® is an extended service interval (ESI) coolant program for medium and heavy-duty trucks. The coolant's life is extended to correspond with the life of the engine by:

1. Filling the cooling system with engine coolant consisting of 50% phosphate-free, low-silicate antifreeze, meeting coolant specification TMC* RP-329 Type A for ethylene glycol, or RP-330 for propylene glycol and 50% water meeting the specification of ASTM D-4985, and
2. Installing a Penray NEED-RELEASE® filter. *TMC is an abbreviation for "Technology and Maintenance Council" of the American Trucking Associations, Alexandria, VA.

Q. WHO MAKES PHOSPHATE-FREE, LOW SILICATE, TMC RP-329 Type A SPECIFICATION ANTIFREEZE?

A. Many heavy-duty parts suppliers carry this antifreeze. Below are some of the name brands.

- Caterpillar® Heavy-Duty Antifreeze/Coolant • Detroit Diesel PowerCool® • MacGuard® Antifreeze/Coolant • Old World Industries Fleetcharge™
- Prestone® Heavy-Duty Antifreeze/Coolant • Sierra® Fleet (TMC RP-330 specification, this is a propylene glycol based product.)

Several high quality recycling services who use reverse osmosis, distillation or ion exchange to strip the old coolant of contaminants, and then add advanced Penray inhibitor chemistry provide a recycled coolant that meets TMC RP-329 Type A.

Q. WHERE CAN I BUY A PENRAY NEED-RELEASE® FILTER?

A. From any of 80 independent Penray Power Fleet Warehouse Distributors or from these national OEM distribution sources:

- Detroit Diesel distributors and dealers • Freightliner dealers • Kenworth dealers • Navistar dealers • Peterbilt dealers

Q. WHAT BENEFITS DOES THE Fill-For-Life® PROGRAM PROVIDE?

A. There are several important benefits:

1. Most of the standard factory-fill antifreezes in today's trucks meet the TMC RP-329 Type A specifications, so you don't have to change your new coolant or pay extra for a factory option.
2. Your program will be compatible with all TMC RP-329 Type A, RP-330, and organic acid type antifreezes, so you can use the new antifreeze in your older trucks, or buy antifreeze on the road in a pinch, without creating a cooling system catastrophe or voiding the Fill-For-Life® coolant warranty.
3. If your system becomes diluted or contaminated, you can fix it with your RP-329 Type A antifreeze and/or Pencoool®3000. You don't have to throw the contaminated coolant away, and you don't lose the extended service benefit.
4. You can test your system easily with Penray 2-Way Test Strips or an inexpensive laboratory analysis to be sure it is in good shape.

Q. HOW DO I GET STARTED?

A. Follow these steps: Note: If you have a new truck from Peterbilt, Kenworth, Freightliner, Volvo, Mack, Western Star or Sterling, skip to Part "B."

A. Drain and flush your system.

1. Open the stopcock and drain the coolant from the engine. Catch the old coolant and recycle* or dispose of it properly.
2. Flush the system with tap water until it runs clear, making sure to comply with local, state, and federal waste water regulations.
3. Allow the flush water to drain completely from the engine.
4. Close the stopcock.
5. Fill your system with a Fill-For-Life® approved coolant consisting of 50% phosphate-free, low-silicate TMC RP-329 Type A or RP-330 specification antifreeze and 50% water meeting the specification of ASTM D-4985.
6. Run the engine for 15 minutes to open the thermostat and circulate the coolant.
7. Proceed to Part "B". *Reverse osmosis, distillation or ion exchange are the only acceptable recycling methods for this program.

B. For new truck application use a Penray 2-way coolant test strip, verify that the system contains 1200 - 1400 parts per million of nitrite and has a freeze point of -34 degrees F (-37 degrees C). Then:

1. Install a Penray NF2088NEED-RELEASE® filter if your cooling system capacity is 8 to 20 gallons, or an NF2091 if your cooling system is 8 gallons or less.
2. Check your system at least every six months to determine if the cooling system has been invaded. Correct the coolant chemistry as recommended.
3. Replace the NEED-RELEASE® filter every 150,000 miles, 3,000 hours, or 15 months, whichever comes first.

NF2088: Fits standard filter bracket for Detroit Diesel, Caterpillar, Cummins, Ford, etc. engines. Compatible with an 8-20 gallon cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

NF20891: Fits Mack, Mid-Liner, Mack V-8, 65, and Econo-Dyne series engines. Compatible with an 8-20 gallon cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

NFC2090: Fits Mack, ESI, E-9, and Maxi-Dyne engines. Compatible with an 8-20 gallon cooling system capacity that has been precharged with 1200-1400 PPM nitrite.

NF2091: Fits standard filter bracket for Detroit Diesel, Caterpillar, Cummins, Ford, etc. engines. Compatible with an 8 gallon or less cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

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