Coolant filters are an essential part of the engine coolant system in a heavy-duty diesel engine. Improper coolant flow is the cause of nearly half of all early engine failures. Quality filtration will remove harmful contaminants from the cooling fluid and provide protection that can reduce downtime.
Luber-finer Coolant Filters are constructed using only the highest quality components for increased filter integrity, extended filter life and reduced downtime costs. To help prolong the life of heavy-duty equipment, use Luber-finer Coolant Filters for vehicles used for On-Highway, Off-Road, Agricultural or Construction purposes.

Improper coolant flow is the reason almost 50% of early engine failures occur. Reliable coolant products are necessary for preventing dirt, rust, scale and other contaminants from creating hot spots and damaging an engine. Years of research has created Luber-finer epoxy-coated coolant filters, supplemental coolant additives and testing products. Field tests prove that Luber-finer coolant filters and products are compatible with all applications.
Luber-finer Conventional Supplemental Coolant Additive (SCA) Coolant Filters were developed to maintain and protect cooling systems during recommended service intervals of:

- 1 year
- 20,000 miles
- Or 1,000 hours

Designed for use with conventional SCA coolant, standard coolant filters are pre-charged with (SCA) to protect an engine against harmful corrosion.

Luber-finer Controlled Release Technology SCA Coolant Filters were developed to maintain and protect cooling systems:

- Up to 1 year
- 150,000 miles
- Or 4,000 hours

Designed for use with conventional coolant, Controlled Release SCA coolant filters have a specially formulated synthetic filter media. Controlled Release SCA coolant filters are pre-charged with Controlled Release Technology (CRT™) SCA to protect your engine against corrosion, cavitation and scale.
Luber-finer Extended Life Non-SCA Coolant Filters are constructed for use with Extended Life Coolant (ELC) products and may also be used with conventional coolant when longer service intervals are desired. Luber-finer Extended Life coolant filters contain no SCA, but are constructed with specially formulated synthetic media.

When using Luber-finer Extended Life Non-SCA coolant filters with conventional coolant, first test and then treat with Luber-finer Lubercool II SCA to protect your engine from harmful corrosion, cavitation and scale. When using Luber-finer Extended Life coolant filters with today’s ELC coolant, be sure to service your cooling system according to the coolant manufacturer’s recommendations for testing and treatment.
Oxidation releases rust and metallic particles into the system causing pitting and accelerated wear from erosion. As oxidation creates rust, it will coat iron surfaces and reduce heat transfer efficiency.

Scale, which is present in all tap water, circulates and collects in parts of the engine, creating hot spots. The accumulation of scale can clog coolant passages, reducing efficiency and causing the engine to run hot. Engine hot spots can have a negative impact on several parts of a heavy-duty engine, including the uneven expansion of metals, which can lead to accelerated ring wear, cracked heads and blocks.

The presence of acidity can attack and corrode metals used in the engine, especially aluminum. Silicate Dropout/Gelling can slow down the flow of the coolant, which could cause the engine to overheat. Gelling is caused by an over-dosage of Supplemental Coolant Additives (SCA).
Effects Of Poorly Maintained Cooling Systems

- Corrosion and rust of steel and cast iron surfaces
- Improper conductivity of heater core
- Pitting of coolant pump impellers
- Scale forms on thermostat and sensors
- Improper radiator efficiency
- Piston liner cavitations
- Short-circuits in block heater
- Water pump cavitations due to foaming
- Softening of hoses
- Solder corrosion and consequent solder bloom
- Water pump cavitations due to foaming
Heavy-Duty Cooling System Filter Construction

Epoxy-Coated Shell: Resists rust and corrosion during extended service.

Protective Holding Chamber: Keeps coolant additives separate from filter media to prevent degradation and provide even release.

High-Efficiency Synthetic Media: Designed for extended service levels capable of handling high heat and longer coolant flow.

Reinforced Media Construction: Offers higher capacity and filtering efficiency. All-Steel Baseplate: Provides durability and strength for stability over extended service levels.

Double-Rolled Seam: Ensures a tight fit to prevent leakage.
Luber-finer’s use of patented Controlled Release Technology (CRT™) coolant additives releases controlled levels of supplemental coolant additives into the coolant to protect against rust, scale and other build-up.

Luber-finer provides coolant filters, SCA, and coolant test strips for conventional coolant. Luber-finer also provides non-SCA filters for use with long-life coolant.

**Treatment Components**

- **Filters**
  - Standard and Extended Service

- **Test Strips**

- **Supplemental Coolant Additive**

*Balanced Formula-Different additives wear out at different rates so it is chemically balanced to allow for those variances. Luber-finer SCA maintains all at the proportionate level.*
Perform a visual examination of the engine cooling system to ensure that it is in good working order and that coolant is the proper color and free from debris, rust and lubricating oil. If visual inspection indicates any contamination, drain, flush and refill the coolant supply.

The engine cooling system is a critical part of efficient and healthy, heavy-duty diesel engine operation. Essential components such as radiator intakes, hoses, clamps and caps much be checked periodically to ensure secure and safe operation.

**Radiator Air Intake:** Be certain air flow is unobstructed and intake is free of debris.

**Hoses:** Inspect pliability and secure a safe distance from hot engine components.

**Hose Clamps:** Check clamps for coolant leakage and proper tension.

**Radiator Cap:** A loose cap can lead to coolant breakdown and boilover.
The development of a viable scheduled maintenance program and the use of quality coolant products are vital to protecting a heavy-duty diesel engine. When maintaining systems filled with conventional coolant, it is vital to check for proper SCA levels, pH and freeze point protection. Be sure to test engine coolant at each scheduled service interval (20,000 miles) to maintain proper cooling system protection.

Testing can be accomplished with the use of the all-in-one Luber-finer Coolant Test Strips. Once coolant has been visually inspected and tested with Luber-finer test strips, the proper treatment of the coolant is required.
SCA contains inhibitors designed to prevent generalized corrosion. They contain:

**Nitrite** for protection against cavitation erosion

**Scale Inhibitors** that keep hard water scale from depositing on engine surfaces

**Buffering Agents** to reduce the acidity of the coolant
Luber-finer Controlled Release Technology (CRT) SCA Coolant Filters were developed to maintain and protect cooling systems:

- Up to 1 year
- 150,000 miles
- Or 4,000 hours

The CRT filter is designed for use with conventional coolant. It is pre-charged with SCA to protect the engine against corrosion and cavitation, while extending the change intervals for the antifreeze/coolant.

Luber-finer coolant filters are lined with epoxy coating for added protection.
• Call the filter hotline at 1-800-882-0890

• Online filter look-up capabilities on our website www.luber-finer.com
  - Includes installation instructions
  - Distributor locator
  - Product images
  - Service minutes and change interval recommendations

• Android App and Mobile site parts look-up capabilities