

# HEAVY DUTY FUEL FILTERS

Featuring  
**TotalTec™**  
Fuel Filters





## **The Driving Force in Heavy Duty Filtration**

Luber-finer, a division of Champion Laboratories, Inc. is a global manufacturer of heavy duty filtration products. Luber-finer provides premium filtration solutions for all fleets and on-highway, as well as all off-road applications such as heavy construction, mining, agriculture, the oil and gas industry and marine.

Luber-finer combines ground-breaking research and development with award-winning lean manufacturing, marketing and customer support for all your filtration needs. Luber-finer has been a trusted name in filters since 1936, providing high efficiency performance in the most demanding work environments. From heavy duty, off-highway construction to light truck and automotive, Luber-finer's entire product line of filters is designed to keep your vehicles and equipment running cleaner, longer.

Whether you choose our innovative new TotalTec Fuel Filters or any of our lube, air, fuel, hydraulic or coolant filters, you can always count on Luber-finer for high-quality, performance and reliability. We want to be your "Total" Filter Supplier!



# TotalTec™

## HEAVY DUTY FUEL FILTERS

### **"No Bowl" Design Fuel/Water Separator**



#### **The Smart Solution - One Filter Does It All**

Luber-finer's advanced OEM design eliminates the work and worry of fuel/water separation and fuel filter maintenance by offering a one-filter replacement solution to the plastic bowl add-on type filters. Luber-finer "TotalTec" fuel filters are universal in that they offer more water absorbing efficiency at a more affordable price.



#### **TotalTec Filters Offer Excellent Replacement Value**

**More Efficient Filtration** - Durable, leakproof construction reduces risk of failure due to cracks and breakage.

**Easier Installation** - Reduces downtime and the mess associated with changing plastic bowl fuel filters.

**Less Hassle To Stock** - Eliminates the need to order and stock separate filters and plastic bowl add-on components.

- **All-Metal Housing** to withstand higher pulse fatigue and provide higher burst strength
- **High Performance Media** for more dirt holding capacity and 99% filtering efficiency
- **"No bowl" Construction** provides a hassle-free alternative to standard fuel/water separators
- **Sensor Port for proper OEM sensor replacement**
- **Easy Turn, User-friendly low torque valve**



## Top 5 Fuel System Facts

**1. Fuel Characteristics Have Changed:** During the past several years, diesel fuel characteristics have undergone numerous changes that can have a severe impact on engine operation and performance. Further changes are being forced by emissions regulations. Diesel fuel composition and specifications are being required to change in order to comply with these regulations. These changes include restrictions on certain fuel components, such as sulfur. Also with the increases in fuel costs, alternative fuels such as bio-diesel are becoming more prominent.

**2. Particulate and Debris in Diesel Fuel:** When diesel fuel comes from the refinery, it is clean and free from any particulates. However, as it is transported and stored, dirt and sludge can form which causes problems for engine fuel management systems. In addition, with the advanced technology being used by today's engine manufacturers, fuel system injection pressures have increased and mechanical tolerances within fuel injection system components have been reduced. Additionally, diesel fuel is increasingly being used as a coolant for today's advanced diesel engines operating at dramatically higher temperatures. This can thermally stress the fuel. This thermal stress, along with an increase in recirculation fuel temperature, is often responsible for fuel degradation and the formation of particulate sediments which can cause expensive premature component wear.

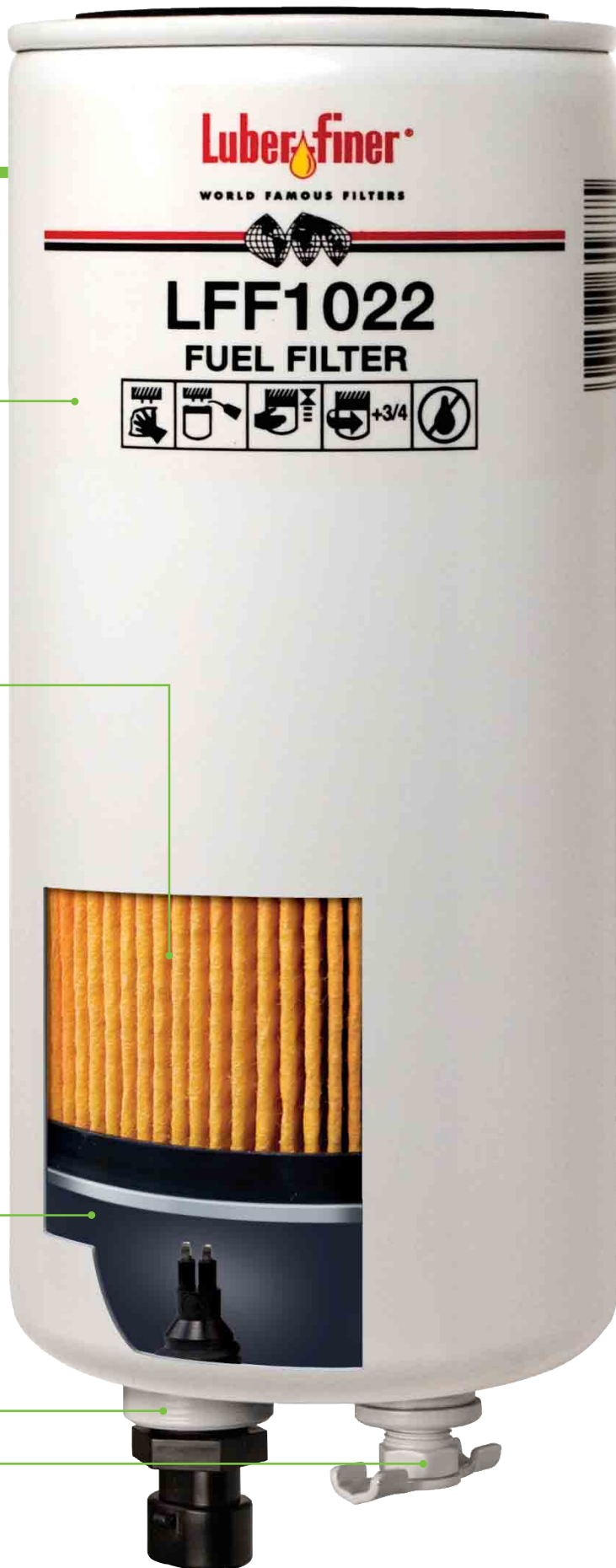
**3. Water in Diesel Fuel:** Poor housekeeping is probably the largest contribution to water in fuel problems. Water enters bulk fuel tanks via condensation, carry-over from fuel distribution systems, leakage through the fill cap, and spill contaminant valve or piping. This can allow significant quantities of water to be pumped into vehicle fuel tanks. As water enters the fuel management systems on diesel engines, many problems can occur such as low power output, engine shut down, and fuel pump and injector wear and damage.

### **4. Microbiological Growth in Diesel Fuel:**

Water in diesel fuel can allow certain microbes to grow in fuel. Their waste products contribute to the overall particulate contamination. Particulates become trapped in tank walls, fuel lines and system components. The result is dirty fuel tanks, clogged lines, and plugged piping.

### **5. Develop and Maintain a Luberfiner Fuel System Maintenance Program:**

The development of a viable scheduled maintenance program and the use of good quality fuel filters are vital to protecting your investment. Luberfiner offers a complete line of filtration products to maintain and protect your fuel system and equipment investment. If you have questions, please feel free to contact a Luberfiner representative.



# Order Luber-finer Fuel Filters in Different Options: Standard, Bowl Style or Simply Order TotalTec Filters!

## Fuel Filter Tech Tips

1. Utilize good, clean, quality fuel.
2. Eliminate possible sources of contamination at bulk fuel-storage facilities.
3. Monitor fuel-storage for water, bacteria or fungus. Treat appropriately with scheduled preventive maintenance.
4. Drain vehicle fuel tanks on a regular interval. Remember, this should be done at least 24 hours after the vehicle has been idle.
5. Never use gasoline or alcohol alone as a diesel-fuel additive.
6. Do not blend used oil with diesel fuel. It can cause increased wear of injectors and plug filters, and form carbon deposits on piston tops.
7. To help minimize the condensation and water accumulation in vehicle fuel tanks, top off with fuel at the end of the day.
8. Luber-finer fuel filters are designed to last beyond the recommended change interval. If a fuel filter does not last as long as the change interval, it can generally be attributed to excessive contaminants and/or water. Always remember to drain fuel/water separators periodically.

Primary Application	Thread Size	Absolute Micron Rating	Standard Filters		Bowl Style F/W Separators			TotalTec F/W Separators		Universal Fuel Filter Mounting Bases
			Standard Fuel Filter	F/W Separator With Drain	Filter With Bowl	Filter W/O Bowl	Replacement Bowls With Sensor Port	With Drain & Sensor Port (No Sensor)	With Drain & Sensor Included	
All	1"-14	30	LFF8012	LFF8011						LMB900
Caterpillar	1"-14	5	LFF5823B			LFF8707				LMB900
Caterpillar	1"-14	5	LFP440F	LFF8030	LFF9003	LFF903	L900B			LMB900
Caterpillar	1"-14	2	LFF2749							LMB900
Caterpillar	1"-14	2	LFF3347							LMB900
Caterpillar	7/8" X 14	2	LFF4783							
Cummins	1"-14	15	LFF5002	LFF8000	LFF90013	LFF9013	L900B			LMB900
Cummins	1"-14	22		LFF1001						LMB900
Cummins	1"-14	22							LFF1022	LMB900
Cummins	1"-14	22		LFF1000					LFF1003	LMB900
Cummins	M16 X 1.5	15						LFF6338		
Cummins	M16 X 1.5	22		LFF3417						
Cummins	M16 X 1.5-6H	15	LFF3521	LFF8062						
Cummins	M20 X 1.5-6H	10	LFF3581					LFF9519		
Cummins	M85 X 2.0-6H SPL	22							LFF1007	
Cummins	1"-14	15	LFF5	LFF8020	LFF90011	LFF9011	L900B			LMB900
Detroit	1" X 12	30	LFP815FN	LFF8010	LFF9002	LFF902	L900B			
Detroit	1" X 12	38	LFP936F		LFF90012	LFF9012	L900B			
Detroit	13/16" 12	4	LFP816FN							
Ford	1"-14	10				LFF5824B		LFF5824U		
Ford	13/16" X 18	15				LFF8061	L897B			
International	1"-14	15	FP251F	LFF8050	LFF9004	LFF904	L900B			LMB900
International	1"-14	30		LFF8064		LFF3579	L899BSP	LFF3579U		
International	7/8" X 14	5		LFF8349						
Mack	13/16" X 18	30	LFP219F	LFF8040	LFF9005	LFF905	L901B			
Mack	7/8" X 16	15	LFP218F							
Mack	M22 X 1.5-6H	30	LFF4470	LFF8472						
Mack	M30 x 1.5-6H	5	LFF4471							
Racor	1"-14	10				LFF5851		LFF5851U		
Racor	1"-14	30				LFF5849		LFF5849U		
Racor	1"-14	38				LFF5850				
Thermo-King	1"-14	10	LFF1224	LFF1223		LFF8063		LFF8063U		
Volvo	1"-14	30		LFF3290				LFF8038		
Volvo	M32 x 1.5-6H	10	LFF8059							

Quick reference to alternate filters. Includes standard filters, fuel water separators, filters with service parts, replacement glass bowls and mounting heads.



FOR INFORMATION CALL:

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