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Cummins WF2074

Fleetguard WF2074 Coolant Filter User Manual

Model: WF2074

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Fleetguard WF2074 Coolant Filter. The WF2074 is designed to effectively filter chemical additive DCA4+ and is a direct replacement for WF2065, cross-referencing with various other filter models including CUMMINS 3100307, AC FILTERS WF115, BALDWIN FLTR BW5074, CUMMINS 3310752, CUMMINS 3316053, CUMMINS 3831133, FRAM FILTERS PR3911, DONALDSON FI P554074, and Volvo 129686630. Adhering to these instructions will ensure optimal performance and longevity of your coolant system.



Figure 1: The Fleetguard WF2074 Coolant Filter. This image shows the cylindrical filter with the Fleetguard logo and model number WF2074 visible on its side. The base of the filter, which contains the thread and sealing gasket, is also partially visible.

2. SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of the coolant filter. Always refer to your vehicle or equipment manufacturer's service manual for specific instructions related to your system.

2.1 Safety Precautions

- Ensure the engine is cool before attempting any work on the cooling system.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection, when handling coolant.
- Dispose of used coolant and filters according to local environmental regulations.

2.2 Installation Steps

1. **Drain Coolant:** Partially drain the cooling system to a level below the filter housing.
2. **Remove Old Filter:** Unscrew the old coolant filter counter-clockwise. Be prepared for some coolant spillage.

3. **Clean Mounting Surface:** Thoroughly clean the filter mounting base to ensure a proper seal. Remove any old gasket material.
4. **Lubricate Gasket:** Apply a thin film of clean engine oil or coolant to the new filter's gasket.
5. **Install New Filter:** Screw the new WF2074 filter clockwise onto the mounting base until the gasket contacts the base.
6. **Tighten Filter:** Tighten the filter an additional 3/4 to 1 full turn after gasket contact, or as specified by the equipment manufacturer. Do not overtighten.
7. **Refill Coolant:** Refill the cooling system with the appropriate coolant to the recommended level.
8. **Check for Leaks:** Start the engine and check for any leaks around the filter. Allow the engine to reach operating temperature and recheck coolant level.

3. OPERATING PRINCIPLES

The Fleetguard WF2074 is a spin-on coolant filter designed to protect your engine's cooling system. It contains a chemical additive, DCA4+, which is slowly released into the coolant. This additive helps to:

- Prevent corrosion and cavitation.
- Control scale and deposit formation.
- Maintain proper pH levels in the coolant.

The filter also removes solid contaminants from the coolant, ensuring clean circulation and protecting vital engine components.

4. MAINTENANCE

Regular maintenance of your coolant filter is essential for the health of your engine's cooling system.

4.1 Filter Replacement Interval

The replacement interval for the WF2074 filter depends on the engine type, operating conditions, and coolant type. Always follow the engine manufacturer's recommendations. As a general guideline, coolant filters are often replaced at the same interval as engine oil filters or during major service intervals. Consult your engine's service manual for precise recommendations.

4.2 Coolant System Checks

- Regularly check coolant levels and top up as needed with the correct type of coolant.
- Inspect hoses and connections for leaks or damage.
- Monitor engine temperature gauges during operation.

5. TROUBLESHOOTING

This section addresses common issues related to coolant filters.

Problem	Possible Cause	Solution
Coolant Leak at Filter Base	Improperly tightened filter, damaged gasket, dirty mounting surface.	Ensure filter is tightened correctly. Replace filter if gasket is damaged. Clean mounting surface thoroughly.

Problem	Possible Cause	Solution
Engine Overheating	Low coolant level, clogged radiator, faulty thermostat, air in system.	Check coolant level and top up. Inspect radiator for blockages. Bleed air from the system. Consult a mechanic if issues persist.
Coolant Discoloration	Contamination, old coolant, internal engine issue.	Flush and refill cooling system. Replace coolant filter. Investigate potential engine issues.

If you encounter issues not listed here, or if solutions do not resolve the problem, consult a qualified mechanic or the equipment manufacturer's service department.

6. SPECIFICATIONS

Attribute	Value
Model Number	WF2074
Brand	Cummins (Fleetguard Filtration)
Product Dimensions (D x W x H)	3.72"D x 3.72"W x 5.4"H
Overall Height	137.24 mm (5.403 in)
Largest OD	94.49 mm (3.72 in)
Thread Size	11/16-16 UN-2B
Chemical Additive	DCA4+ (12 units)
Item Weight	1.45 Pounds
UPC	758149759364
National Stock Number	4330-01-358-8651

7. WARRANTY AND SUPPORT

Specific warranty information for the Fleetguard WF2074 Coolant Filter is typically provided with the product packaging or can be obtained directly from Cummins Filtration or an authorized dealer. For technical support, service inquiries, or to locate an authorized dealer, please refer to the official Cummins Filtration website or contact their customer service department. Always provide the model number (WF2074) when seeking support.

Note: This manual is for informational purposes only and does not supersede any official documentation or safety guidelines provided by the manufacturer or equipment supplier.

