

Caterpillar 1R-0739

Caterpillar 1R-0739 Engine Oil Filter Instruction Manual

Model: 1R-0739

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1. INTRODUCTION

This manual provides essential information for the proper installation and maintenance of the Caterpillar 1R-0739 Full Flow Engine Oil Filter. This filter is designed to maximize engine oil cleanliness, ensure expected oil interval changes, and contribute to optimal machine performance and component protection in Caterpillar engines.

2. SAFETY INFORMATION

Always observe safety precautions when working with engine components and fluids. Failure to do so may result in personal injury or damage to equipment.

- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the engine is turned off and cooled down before beginning any work.
- Relieve any system pressure before disconnecting lines or removing components.
- Dispose of used oil and filters according to local environmental regulations.
- Refer to your engine's specific service manual for additional safety guidelines and procedures.

3. PRODUCT OVERVIEW

The Caterpillar 1R-0739 is a full-flow spin-on engine oil filter engineered for high performance and durability. It features advanced filtration media to effectively remove contaminants from engine oil.

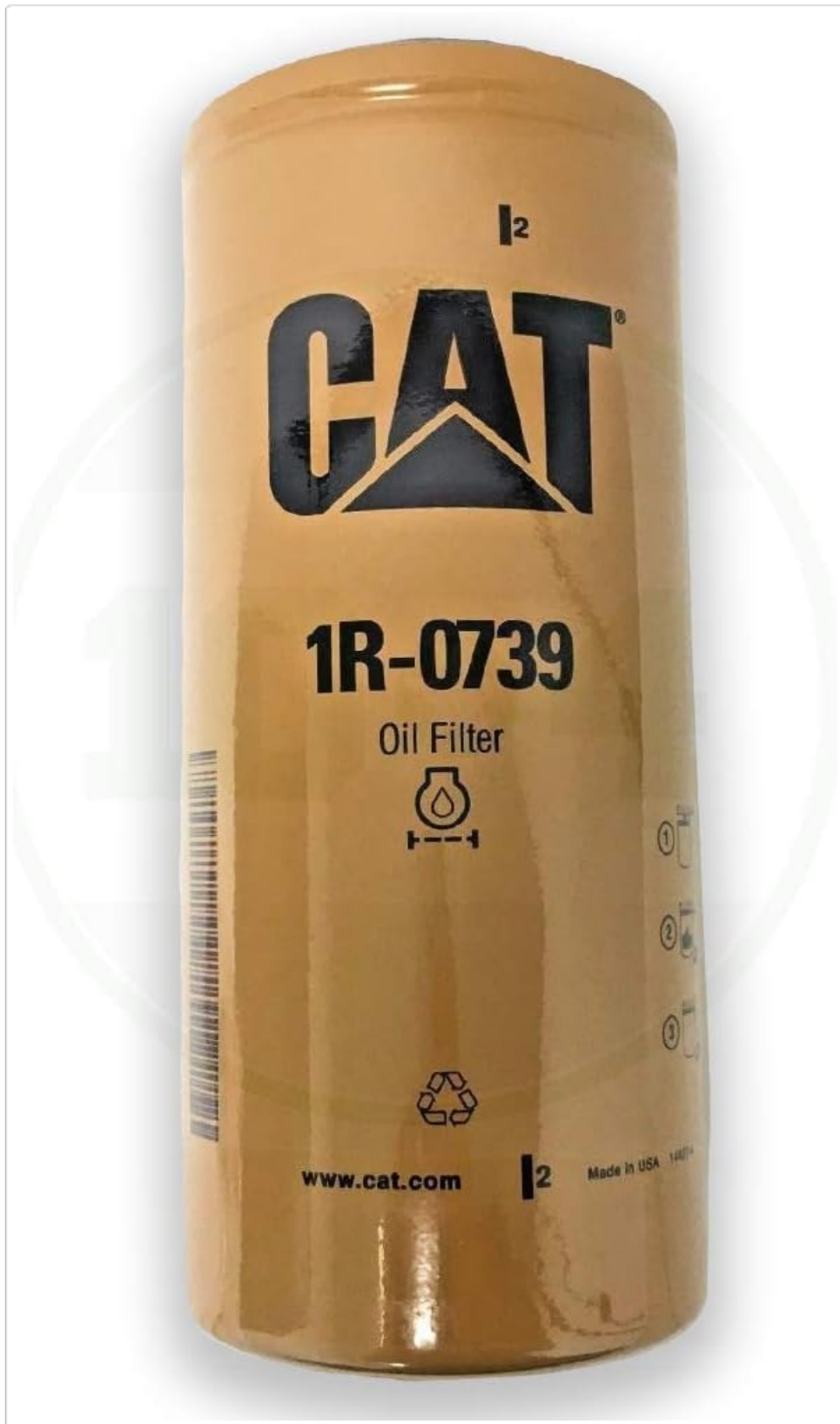


Figure 1: Front view of the Caterpillar 1R-0739 Engine Oil Filter, showing the CAT logo and model number.

Key Features:

- **Model:** 1R-0739, Full Flow
- **Cross References:** Fleetguard LF667, LF3379, LF9667
- **Dimensions:** Approximately 4.25 inches (107.9 mm) diameter, 10 inches (254.6 mm) height
- **Efficiency Rating:** Standard Efficiency
- **Media Type:** Cellulose, Synthetic, Fire Resistant
- **Installation Type:** Spin-on

- **Thread Size:** 1 1/8 - 16 - 2B

4. INSTALLATION INSTRUCTIONS

Proper installation is critical for the effective operation of the oil filter and the longevity of your engine. Always consult your engine's service manual for specific torque specifications and procedures.

Required Tools and Materials:

- Oil filter wrench
- Drain pan
- Clean rags
- New engine oil (recommended type for your engine)
- New Caterpillar 1R-0739 oil filter

Procedure:

1. **Prepare the Engine:** Ensure the engine is off and has cooled sufficiently to prevent burns. Position the drain pan beneath the oil filter housing.
2. **Remove Old Filter:** Use an oil filter wrench to loosen and remove the old oil filter. Be prepared for oil to drain out.
3. **Clean Mounting Surface:** Thoroughly clean the engine's oil filter mounting surface, ensuring no old gasket material remains.
4. **Prepare New Filter:** Apply a thin film of clean engine oil to the new filter's gasket. This ensures a proper seal and prevents damage during installation.



Figure 2: Bottom view of the Caterpillar 1R-0739 oil filter, highlighting the gasket and central thread for proper lubrication before installation.

5. **Install New Filter:** Hand-tighten the new filter onto the engine until the gasket makes contact with the mounting surface. Then, tighten an additional 3/4 to 1 full turn, or as specified in your engine's service manual. **Do not overtighten.**
6. **Add Engine Oil:** Refill the engine with the recommended amount and type of new engine oil.
7. **Check for Leaks:** Start the engine and let it run for a few minutes. Check for any oil leaks around the new filter. If leaks are present, turn off the engine and re-check the filter's tightness.
8. **Verify Oil Level:** Turn off the engine, wait a few minutes for the oil to settle, and then check the oil level. Add more oil if necessary.

5. MAINTENANCE

The Caterpillar 1R-0739 oil filter is a maintenance item that requires periodic replacement. The frequency of replacement depends on your engine type, operating conditions, and the manufacturer's recommendations.

- Always follow the oil change intervals specified in your engine's owner's manual or service manual.
- It is generally recommended to replace the oil filter every time the engine oil is changed.
- Using genuine Caterpillar filters helps maintain engine warranty and performance.

6. TROUBLESHOOTING

Oil Leak After Filter Replacement:

- **Cause:** Old gasket material remaining on the engine block.
- **Solution:** Ensure the mounting surface is completely clean before installing the new filter.
- **Cause:** Gasket not properly lubricated or damaged during installation.
- **Solution:** Apply a thin film of clean oil to the new filter's gasket before installation. Inspect the gasket for any tears or damage.
- **Cause:** Filter not tightened sufficiently or overtightened.
- **Solution:** Hand-tighten until the gasket contacts the surface, then turn an additional 3/4 to 1 full turn. Avoid excessive force.

If issues persist, consult a qualified service technician or refer to your engine's specific service manual.

7. SPECIFICATIONS

Attribute	Value
Brand	Caterpillar
Model Number	1R-0739
Product Grade	Performance Part
Vehicle Service Type	Caterpillar Heavy Machinery and Construction Vehicles
Item Dimensions (L x W x H)	4 x 4 x 10 inches
Outside Diameter	4.25 Inches
Thread Size	1 1/8 - 16
Item Weight	1.5 Pounds
OEM Part Number	1R0739
Installation Type	Spin-on
Media Type	Cellulose, Synthetic, Fire Resistant
Efficiency Rating	Standard Efficiency

8. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official Caterpillar warranty documentation provided with your engine or contact an authorized Caterpillar dealer. For technical support, please contact your local Caterpillar service center or visit the official Caterpillar website.

Caterpillar Official Website: www.cat.com

