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MAHLE OX556DECO

MAHLE OX 556D ECO Oil Filter Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, function, and maintenance of the MAHLE OX 556D ECO Oil Filter. The MAHLE OX 556D ECO Oil Filter is engineered to effectively remove contaminants from engine oil, ensuring optimal engine performance and longevity.

Key features of this oil filter include:

- Superior embossed and pleated filter media for high dirt holding capacity and low pressure drop.
- Designed to meet vehicle manufacturers' (OEM) specifications and high safety standards.
- Superior structural integrity through high quality sheetmetal, endplates, and seaming.
- Pressure relief valve ensures lubrication at all times.
- Anti-drain check valve, where applicable, to prevent oil drain-back during engine shutdown.



Image 1.1: The MAHLE OX 556D ECO Oil Filter, showcasing its pleated media and robust construction.

2. Setup and Installation

Proper installation is crucial for the effective operation of the oil filter and the longevity of your engine. It is recommended that oil filter replacement be performed by a qualified technician. Always refer to your vehicle's service manual for specific instructions and torque specifications.

2.1 Required Tools and Materials

- New MAHLE OX 556D ECO Oil Filter.
- New engine oil (refer to vehicle manufacturer specifications).
- Oil filter wrench (specific to your vehicle).
- Drain pan.
- Socket wrench set.
- Funnel.
- Clean rags or shop towels.
- Safety glasses and gloves.

2.2 Installation Steps

1. **Prepare the Vehicle:** Ensure the engine is cool. Park the vehicle on a level surface and engage the parking brake. For safety, use jack stands if lifting the vehicle.
2. **Drain Engine Oil:** Place the drain pan under the oil drain plug. Remove the drain plug and allow all old oil to drain completely. Reinstall the drain plug with a new washer (if required) and tighten to the manufacturer's

specified torque.

3. **Remove Old Oil Filter:** Locate the old oil filter. Place the drain pan underneath it to catch any residual oil. Use an oil filter wrench to loosen and remove the old filter. Be prepared for oil spillage.
4. **Prepare New Oil Filter:** Inspect the new MAHLE OX 556D ECO Oil Filter and the included O-ring. Lightly lubricate the new O-ring with a small amount of fresh engine oil. This ensures a proper seal and prevents damage during installation.
5. **Install New Oil Filter:** Thread the new filter onto the engine by hand. Once the O-ring makes contact with the engine block, tighten the filter according to the vehicle manufacturer's specifications (usually a certain number of turns past hand-tight, or a specific torque value). **Do not overtighten.**
6. **Refill Engine Oil:** Using a funnel, add the recommended type and quantity of new engine oil to the engine.
7. **Check for Leaks:** Start the engine and let it run for a few minutes. Turn off the engine and check for any oil leaks around the new filter and drain plug. Allow the oil to settle, then check the oil level and add more if necessary.



Image 2.1: The MAHLE OX 556D ECO Oil Filter shown with its accompanying O-ring, essential for a proper seal.



Image 2.2: A detailed view of the O-ring, which must be correctly seated and lubricated during installation.

3. Operating Principles

The MAHLE OX 556D ECO Oil Filter functions by continuously filtering engine oil as it circulates through the lubrication system. Its primary role is to capture harmful contaminants such as dirt, metal particles, sludge, and

unburnt fuel residues, preventing them from causing wear and damage to critical engine components.

The filter's design incorporates:

- **High-Quality Filter Media:** The pleated media provides a large surface area for efficient filtration, trapping particles while allowing oil to flow freely.
- **Pressure Relief Valve:** In cold conditions or if the filter becomes excessively clogged, this valve opens to ensure a continuous supply of oil to the engine, preventing oil starvation.
- **Anti-Drain Back Valve (if applicable):** This valve prevents oil from draining out of the filter when the engine is shut off, ensuring immediate oil pressure upon startup.



Image 3.1: A close-up view of the filter's pleated media, designed for efficient contaminant capture.

4. Maintenance

The MAHLE OX 556D ECO Oil Filter is a maintenance component designed for periodic replacement. It is not intended for cleaning or reuse.

4.1 Replacement Intervals

Regular replacement of the oil filter is crucial for maintaining engine health and performance. Always adhere to your vehicle manufacturer's recommended service intervals for oil and filter changes. These intervals are typically specified in your vehicle's owner's manual and may vary based on driving conditions and oil type.

Failure to replace the oil filter at recommended intervals can lead to:

- Reduced oil flow due to a clogged filter.
- Increased engine wear from unfiltered contaminants.
- Decreased engine efficiency.

5. Troubleshooting

Most issues related to an oil filter arise during or immediately after installation. If you encounter problems, consider the following:

5.1 Oil Leaks After Installation

- **Incorrect Seating:** Ensure the oil filter is threaded correctly and tightened to the manufacturer's specifications. An improperly seated filter can cause leaks.
- **Damaged O-ring:** Verify that the O-ring was not pinched, torn, or improperly seated during installation. Always use the new O-ring supplied with the filter.
- **Old O-ring Present:** Confirm that the old O-ring was removed from the engine block before installing the new filter. Leaving two O-rings can prevent a proper seal.
- **Cracked Filter Housing:** In rare cases, the filter housing itself might be damaged. Inspect for any visible cracks or defects.

5.2 Low Oil Pressure Warning

- **Incorrect Oil Level:** Check the engine oil level. Low oil can cause low pressure.
- **Clogged Filter:** While unlikely with a newly installed filter, an extremely defective filter could restrict oil flow.
- **Other Engine Issues:** Low oil pressure can indicate more serious engine problems unrelated to the filter. If the warning persists after checking the filter and oil level, consult a professional mechanic immediately.

6. Specifications

Attribute	Value
Brand	MAHLE
Model	OX556DECO
Material	Paper
Product Grade	Performance Part
Vehicle Service Type	Car
Item Dimensions (L x W x H)	9.96 x 7.02 x 5.31 inches
Outside Diameter	91 Millimeters
Item Weight	167 Grams (5.9 ounces)
OEM Part Number	07Z115466A
Manufacturer Part Number	70385082



Image 6.1: Top view of the oil filter, displaying the MAHLE brand and OX 556 model designation.

7. Warranty and Support

For information regarding product warranty, please refer to the official MAHLE website or contact MAHLE customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or further inquiries, please visit the official MAHLE website or contact their customer service department. Contact information can typically be found on the product packaging or the MAHLE corporate website.

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