

Bypass Oil Filters

AMSOIL BYPASS OIL FILTER

Product Code: EABP



Product Description

Your engine's full-flow oil filter has a tough job. It needs to pass enough oil volume to keep the engine lubricated at all times, which means the filter media can only catch particles down to a certain size. Contaminants smaller than 20 microns pass right through most full-flow filters, and those are exactly the particles that cause the most abrasive wear on bearings, cylinder walls, and other precision-fit surfaces. In diesel engines, soot accumulation compounds the problem by thickening the oil and accelerating deposit formation.

FINE-PARTICLE FILTRATION DOWN TO 2 MICRONS

A full-flow filter is designed to handle high oil volume, not fine filtration. That tradeoff lets wear-causing particles circulate through the engine repeatedly. AMSOIL Bypass Oil Filters operate on a partial-flow basis, drawing less than 5% of the oil pump's capacity at any time and filtering it through a proprietary high-efficiency media that removes particles down to 2 microns. Over the course of normal operation, the bypass filter processes the entire oil volume several times per hour. The result is oil that stays remarkably clean throughout the drain interval.

EFFECTIVE SOOT REMOVAL FOR DIESEL ENGINES

Soot is a constant challenge in diesel engines, particularly in Ford 6.7L Powerstroke, Duramax 6.6L, and Cummins 6.7L applications where exhaust aftertreatment systems and EGR recirculation can drive soot levels up quickly. Soot particles agglomerate and thicken oil, reducing its ability to flow and protect. The AMSOIL Bypass Filter element removes soot particles two microns and larger, eliminating abrasive wear from soot agglomeration and keeping diesel oil within usable viscosity ranges far longer than a full-flow filter alone can manage.

INCREASED OIL CAPACITY AND COOLING

Installing a bypass filter system adds oil to your engine's total fluid capacity. The EABP120, designed for large trucks, construction equipment, farm equipment, and industrial applications, adds approximately 4 quarts (3.8 L) to the system. That extra volume provides improved oil cooling by increasing the thermal mass of the oil supply. More oil spread across the same heat load means lower average oil temperatures, which directly slows oxidation and extends oil life.

EXTENDED ENGINE LIFE AND DRAIN INTERVALS

Engines running on analytically clean oil last longer. It is that straightforward. By continuously stripping out the fine contaminants that full-flow filters cannot catch, AMSOIL Bypass Filters reduce abrasive wear on critical engine components. Oil analysis consistently reflects the difference. This level of filtration supports extended drain intervals when paired with AMSOIL synthetic motor oils and regular oil analysis, reducing maintenance costs for fleet operators, owner-operators, and anyone running high-hour equipment.

DURABLE, CORROSION-RESISTANT CONSTRUCTION

AMSOIL Bypass Filters feature a marine powder-coated exterior and an anti-corrosion coated base plate built to handle demanding environments. The filter assembly includes a nitrile HNBR gasket, a silicone anti-drain valve, and proprietary high-efficiency media. These are not disposable, lightweight housings. They are built for repeated service over years of hard use on diesel trucks, equipment, and commercial vehicles.

Application & Sizing

The AMSOIL Bypass Filter system is available in four configurations to match different engine sizes and applications:

EABP90: Single spin-on element for pleasure vehicles, half-ton to one-ton trucks, and smaller commercial applications. Adds approximately 1 qt. (946 ml) of oil capacity. Compatible with crankcase capacities up to 15 qt. (14.2 L). Used with single-remote or dual-remote systems.
EABP100: Single spin-on element. Adds approximately 1.5 qt. (1.4 L). Compatible with crankcase capacities up to 18 qt. (17 L). Used with single-remote or dual-remote systems.
EABP110: Single spin-on element. Adds approximately 2 qt. (1.9 L). Compatible with crankcase capacities up to 24 qt. (22.7 L). Used with single-remote or dual-remote systems.
EABP120: Spin-on element designed for use with the BMK30 Heavy-Duty Bypass System. Adds approximately 4 qt. (3.8 L). Compatible with crankcase capacities from 24 to 60 qt. (22.7 to 56.8 L). Built for large trucks, construction, farm, and industrial equipment.

Filters can be used on sumps of larger capacity but may require more frequent element replacement. Always verify oil level with the engine dipstick after installation to confirm proper fill.

Filter Service Intervals

Do not exceed the following limits for bypass filter element replacement:

Technical Specifications

Filter	Mileage	Hours	Time
EABP90	60,000 miles (96,500 km)	600	2 years
EABP100	70,000 miles (112,600 km)	800	2 years
EABP110	80,000 miles (128,700 km)	1,200	2 years
EABP120	120,000 miles (193,100 km)	1,800	1 year

Frequently Asked Questions

Q1: What vehicles and equipment is the AMSOIL Bypass Oil Filter designed for?

The AMSOIL Bypass Oil Filter is designed for a wide range of vehicles and equipment, including auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, agriculture, and powersports applications. It works in conjunction with the engine's existing full-flow oil filter to provide supplemental fine-particle filtration. Multiple part numbers (EABP90, EABP100, EABP110, EABP120) are available to fit different engine configurations.

Q2: How does the AMSOIL Bypass Oil Filter protect my engine and improve performance?

The AMSOIL Bypass Oil Filter provides high-efficiency removal of minute dirt particles and soot that the full-flow filter may miss, filtering particles down to 2 microns. This fine-particle filtration helps keep the oil cleaner for longer, which improves engine efficiency and oil cooling. By continuously removing harmful contaminants, it helps provide extended engine life and keeps internal engine components cleaner over time.

Q3: What filtration level does the AMSOIL Bypass Oil Filter achieve in microns?

The AMSOIL Bypass Oil Filter provides fine-particle filtration down to 2 microns. This level of filtration captures extremely small contaminants and soot particles that standard full-flow oil filters are not designed to remove. The filter also offers increased filtration capacity compared to running a full-flow filter alone, and it increases the fluid system capacity of the engine's oil system.

Q4: How does the AMSOIL Bypass Oil Filter compare to using only a standard full-flow oil filter?

A standard full-flow oil filter is designed to handle the engine's entire oil flow and typically captures larger particles to avoid restricting flow. The AMSOIL Bypass Oil Filter works alongside the full-flow filter by diverting a small portion of oil through a much finer 2-micron filtration media, removing minute dirt particles and soot that full-flow filters cannot catch. This dual-filtration approach provides increased filtration capacity, improved oil cooling, and increased fluid system capacity that a full-flow filter alone cannot deliver.

Q5: How often should I change the AMSOIL Bypass Oil Filter and does it extend oil drain intervals?

The AMSOIL Bypass Oil Filter is designed to offer long service life and help extend oil drain intervals by keeping the oil cleaner for a longer period. Verified customers have reported oil that still looks clean at 5,000 miles and engines running with exceptional internal cleanliness at 120,000 miles. For specific service interval recommendations tailored to your application, AMSOIL recommends consulting the Product Data Bulletin for full details.

Q6: Is the AMSOIL Bypass Oil Filter compatible with AMSOIL full-flow oil filters and AMSOIL synthetic oil?

Yes, the AMSOIL Bypass Oil Filter is designed to work in conjunction with the engine's full-flow oil filter, including AMSOIL full-flow filters. Verified customers report using it alongside their regular AMSOIL filters and AMSOIL synthetic oil for maximum filtration protection. The bypass filter also increases the fluid system capacity by adding oil volume to the system, which helps with engine oil cooling.

Available Product Codes

Product Code	Package Size	Unit of Measure
EABP90-EA	1 Filter	Each
EABP100-EA	1 Filter	Each
EABP110-EA	1 Filter	Each
EABP120-EA	1 Filter	Each

[ORDER ONLINE](#)