

REAL

February 2024

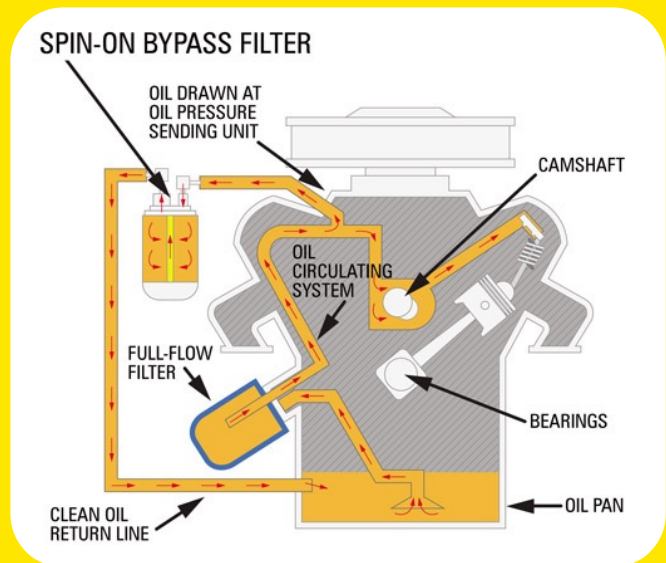
Torque

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Engine Oil Bypass Filters

At TR we have a selection of trucks in our fleet fitted with engine oil bypass filters.

- ▶ An engine oil bypass filter works alongside the engine's own oil filtration system to improve the cleanliness of the engine oil, extending the usable life of the engine oil, and helping to maximise the engine oil drain interval within the manufacturer's recommendations.
- ▶ Extending the oil drain intervals positively impacts the environment by reducing waste and helping lower the amount of CO2 emissions.
- ▶ When deciding what trucks are suitable for bypass filters we consider several criteria, including application, age, mileage profile and engine type.



What do they look like?

The image below shows the bypass filter that is replaced with each B-service. These types of filters can filter down to 3 microns. Some standard full-flow engine oil filters can only filter down to about 30 microns.

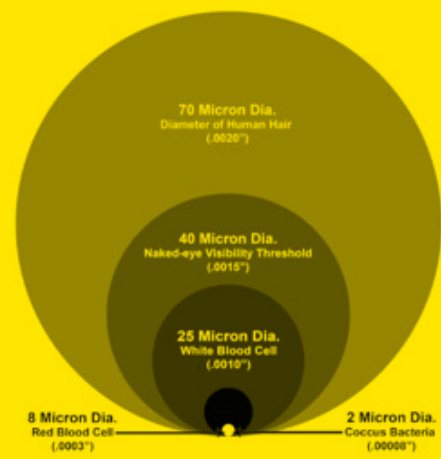


This is what a bypass filter looks like installed on to a truck, mounted to the side of the engine bay.



What is a Micron?

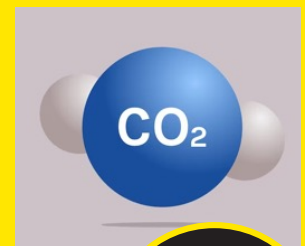
- ▶ When we talk about engine oil filters, the term “**micron**” describes the size of particles that the filter can capture.
- ▶ The micron rating for an engine filter indicates the smallest size particle that the filter is designed to trap and prevent from circulating around the engine. For example, a filter with a 35-micron rating can capture particles as small as 35 microns in diameter.
- ▶ To give this some context, a human hair is about 70 microns and a grain of sand is about 50 microns. When we say a bypass filter can capture particles as small as 3 microns, it's extremely good!



Environmental Impact

Did you know that 1L of engine oil contributes 1.5kg of CO₂ into our atmosphere? This includes the drilling, refining, transporting, usage and disposal of that 1L of oil. Since we have been using engine oil bypass filters to extend some oil drains, we have helped contribute to a reduction of CO₂ by just over 10,000kgs.

- ▶ Are you aware that a typical oil drum contains around 205 litres of oil, contributing a total of 307 kilograms of CO₂ to the environment?



Tips and Tricks



- ▶ In certain instances, engine bypass filters, when used within the manufacturer's specifications, have the potential to extend the engine oil drain interval, sometimes even doubling it
- ▶ 1L of engine oil contributes 1.5kg of CO₂ into our atmosphere over its working life.
- ▶ A typical oil filter traps particles down to 35 microns but a bypass filter can trap particles as small as 3 microns.
- ▶ Even though a bypass filter can extend oil drain intervals, a truck still requires regular servicing, so the A-service interval remains the same to keep on top of checks and greasing.
- ▶ As of today, we have nearly 100 trucks fitted with bypass filters.
- ▶ Only trucks that meet strict criteria are fitted with bypass filters. A range of factors must be considered first to ensure maximum benefit is achieved.

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Making heavy vehicle fleet management easy for you