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MerCruiser 5.0 oil filter change

Changing your engine oil is one of the single most important vehicle maintenance acts you can perform. Gasoline, coolant and water, transmission and brake fluid are all important fluids for your car, but no other fluid can have more negative implications on your vehicle's engine if you don't address it regularly. Engine oil lubricates the engine, absorbs heat and allows the moving parts of your engine to work properly with one another.Over time, heat breaks down the oil and reduces its lubricating properties. Oil also helps to neutralize acid in the engine, but this process breaks down over time. Oil works well to absorb trace amounts of water, dust and combustion byproducts in your engine. However, as heat breaks down the oil, it loses its effectiveness to absorb these materials and they begin to stick in your engine and can cause major car maintenance problems.Think of your engine's oil like the blood that runs through our bodies. Of course, we don't need to replace our own blood, our bodies do it automatically. But the body does pump blood to all areas so that our various body parts can work correctly. When an area of our body doesn't receive blood, it shuts down. Similarly, when an engine doesn't receive the right amount of oil, or when the oil is so old it doesn't lubricate well, the engine will stop running smoothly and some expensive automotive maintenance may be required.Checking your own engine oil is one of the easiest preventative auto maintenance actions you can take. On the next page, we'll take a look at how to check your oil's clarity. The next important step in changing your oil is replacing the oil filter. Remember, the oil filter holds all the excess sludge and grime that the oil catches while lubricating the engine. Changing the filter is vital to car maintenance because without a new oil filter in place, new engine oil will be passing through the old filter, making it dirty and less effective. You can check your car's manual to find out which size filter you'll need. They can be purchased at any auto maintenance shop for around \$5, or up to about \$20 for performance filters.When you're under the vehicle draining the oil, locate the oil filter. It will be cylindrical and may be blue, white, black or orange depending on the brand. Use the oil filter wrench, available at any automotive maintenance shop, and turn it counterclockwise to loosen the filter. The old filter will have hot oil inside it so be careful when taking it off. One turn with the wrench should loosen it up enough to twist it off the rest of the way by hand.Before installing the new oil filter, first take a little bit of clean oil and rub it around the rubber gasket of the new filter. This will help the new filter fit snugly onto the engine block. For good vehicle maintenance, it's also a good idea to use a rag to clean off any excess oil around the area where the filter screws onto the engine. Take the new filter and screw it on the engine block by hand. Once it's snug, tighten it with the oil filter wrench. It should take about a half to three-quarters of a turn to get it firmly in place. Remember, you want the filter on tight, but don't over-tighten it either; you could damage the filter and cause it to leak.On the next page, you'll learn how to fill your car's engine with the proper amount of oil. tools image by CraterValley Photo from Fotolia.com The oil filter on a Chevrolet S-10 pickup is located on the underside of the engine block and filters small particles out of the engine oil. Because of the tight tolerances in modern automotive engines, relatively small particles can cause serious damage to valve train and/or crankshaft bearings if allowed to circulate freely within the oil system. In years past it was advised to change the oil filter with every other oil change; but because oil filters are relatively inexpensive, they are normally replaced at every oil change. Raise the vehicle using an automotive jack, and support it with jack stands placed underneath the front frame. Locate the oil pan drain bolt on the oil pan on the underside of the engine. Place a waste oil collection pan underneath it. Unscrew the oil pan bolt using a wrench. (Be aware that oil will begin to drain from the pan as soon as the bolt is removed.) Allow the oil to drain completely. Locate the oil filter on the underside of the engine block. Place the waste oil collection pan underneath it. Unscrew the oil filter using a strap wrench. Allow all the oil to drain from the oil filter mount. Clean the oil filter mounting surface using a rag. Be sure the old gasket is removed completely. Completely coat the rubber gasket on the top of the new oil filter with fresh motor oil, using your finger. Fill the oil filter with fresh motor oil. Screw the oil filter onto the oil filter fitting. Hand tighten the filter only. Screw the oil pan bolt into the oil pan using a wrench. Lower the vehicle using an automotive jack. Locate the oil filler cap on the valve cover. Remove the oil filler cap by turning it counterclockwise with your hand. Use a funnel and fill the engine with the appropriate amount of fresh motor oil as specified by Chevrolet. Reinstall the oil filler cap. Run the engine and visually inspect for leaks.

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