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Coolant Sampling Instruction Sheet

Coolant analysis allows you to maximize the useful life of your engine coolant and eliminate problems associated with worn out or contaminated coolant. It is important to store Coolant Analysis Kits and sampling equipment (*tubing and vacuum pumps*) in a clean environment, free from contamination from water, moisture, dirt, or other debris.

HOW TO VIDEO

A video showing you how to sample a typical engine cooling system is available on our website at <https://www.youtube.com/watch?v=oMZKaUvdI20>.

Sampling Procedure

- Prior to sampling the engine coolant, it is important that the coolant be well circulated in order to get a good “representative” sample and the best analysis possible.
- Run the engine (*or drive the vehicle*) for at least a half hour to heat the engine coolant and allow it to circulate.
- Shut down the engine and allow it to cool (*overnight if possible*).
- Remove radiator cap (*if accessible*). Otherwise, remove cap from the overflow tank.
- Remove sampling bottle from Coolant Analysis Kit and remove cap from sampling bottle.
- Thread sampling bottle onto Coolant Vacuum Pump (*blue pump*) and hand tighten.
- Insert plastic tubing into brass fitting on Coolant (blue) Vacuum Pump until tubing extends approximately 1/2” into pump cavity. Tighten fitting to secure tubing.
- Remove radiator (or overflow tank) cap and insert tubing end into radiator or overflow tank until tubing stops. Then, draw tubing back slightly so that coolant is not sampled from the bottom of the radiator or tank.
- Actuate pump to draw the coolant sample until the sample jar is approximately 2/3 full. *Do not overfill sampling jar.*
- Loosen brass fitting on pump housing and remove tubing from pump. Allow any coolant in the tubing to flow back into the radiator or overflow tank.
- Remove sample jar from pump and install sample jar cap.
- Remove used sample tubing and throw tubing away. ***Note: Never reuse tubing.***
- Complete the COMPONENT REGISTRATION FORM and attach Tracking Code to outside of sample jar.
 - ***NOTE:*** You may not know what kind of coolant is currently in the cooling system. That’s OK. Your report will still reveal valuable information about the condition of the coolant, including whether or not there are any signs of contamination or water pump wear.

Source Water Sampling

- When sampling source water, run water for one minute before filling sample bottle.
- Fill sample bottle to the top so that air is not introduced while filling or during shipment.

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