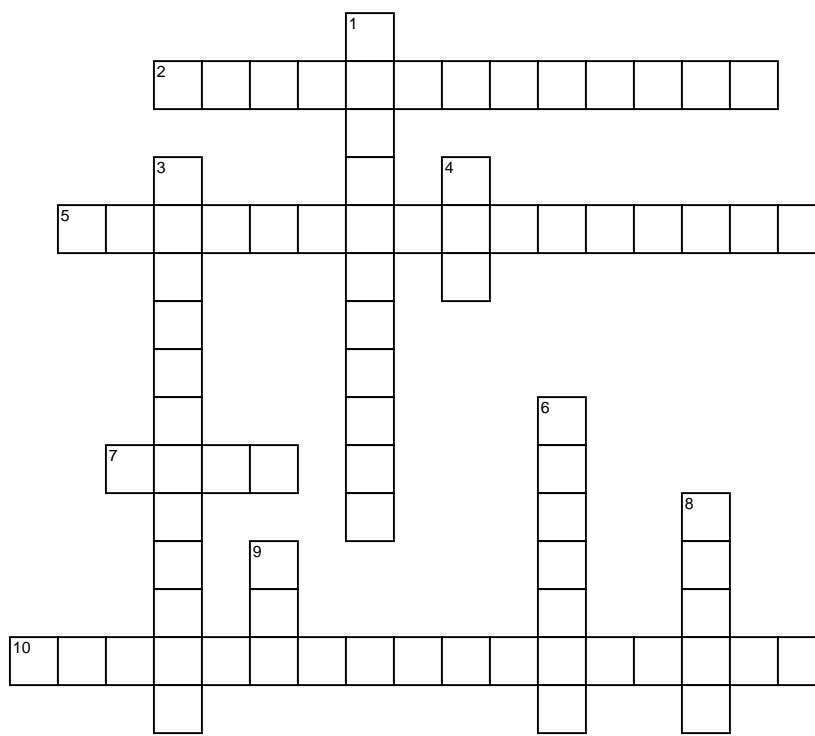


Chapter 7

Engine Coolant



ACROSS

- 2** A _____ is a tester used to test the freezing point of coolant by placing a few drops of coolant on the prism surface.
- 5** _____ is the flow of an electrical current as a result of two different metals in a liquid, which acts like a battery.
- 7** A newer variation of this technology is called _____. It is similar to the OAT-type antifreeze as it uses organic acid salts (carboxylates) that are not abrasive to water pumps, yet provide the correct pH.
- 10** _____. This coolant has a small amount of a substance that makes it taste bitter and therefore not appealing to animals.

DOWN

- 1** _____ is a chemical reaction that takes place between coolant additives and the metal that it protects.
- 3** _____ requires the use of an outside voltage source. The source is usually due to a poor electrical ground connection.
- 4** _____ coolant contains ethylene glycol, but does not contain silicates or phosphates.
- 6** _____, developed by Havoline, is just one brand of OAT coolant, which has been used in General Motors vehicles since 1996.
- 8** _____ is used in Mazda-based Fords (2008+), same as Mazda FL-22, and is ethylene glycol based.
- 9** _____ is conventional coolant that has been used for over 50 years.