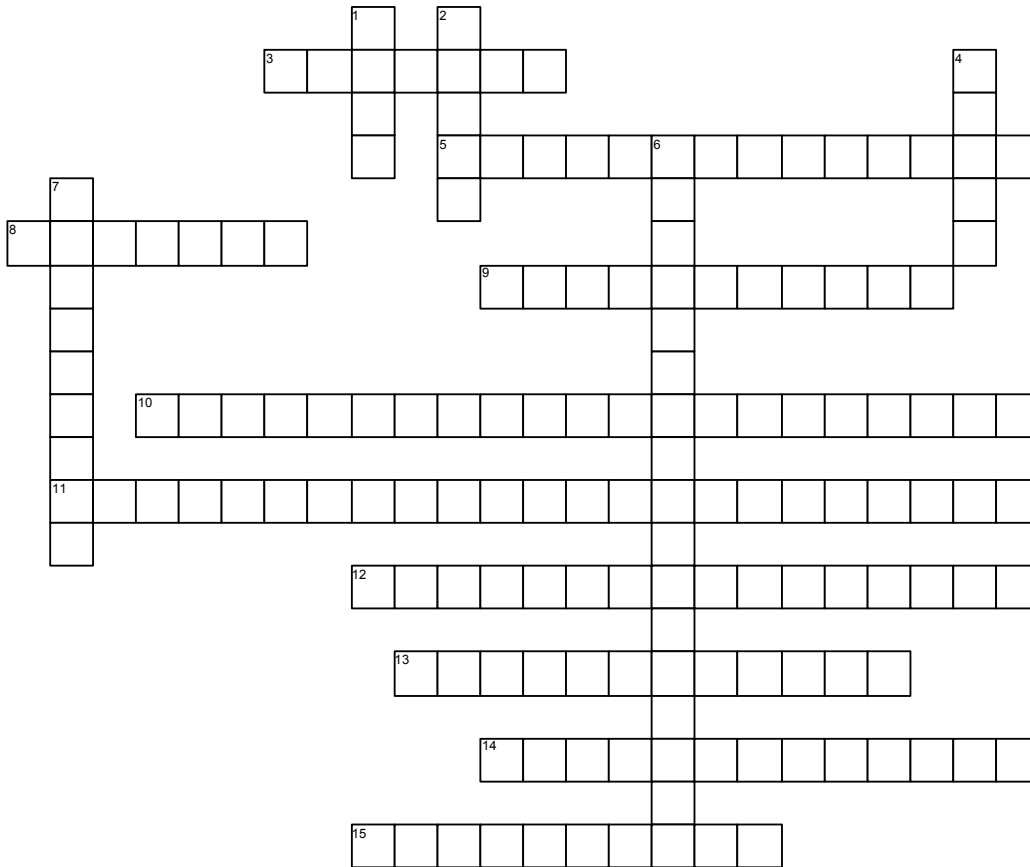


Coolant

Chapter 20



<http://jameshaldeman.com>

ACROSS

- 3 _____ is used in the cooling system because it transfers heat from the engine to the radiator.
- 5 All manufacturers recommend the use of _____ based coolant.
- 8 _____, developed by Havoline, is just one brand of OAT coolant, which has been used in GM vehicles since 1996.
- 9 _____ is a chemical reaction that takes place between coolant additives and the metal that it protects.
- 10 _____ coolant contains ethylene glycol, but does not contain silicates or phosphates.
- 11 _____ is conventional coolant that has been used for over 50 years.
- 12 _____ is the flow of an electrical current as a result of two different metals in a liquid, which acts like a battery.
- 13 _____ requires the use of an outside voltage source.
- 14 A _____ is a tester used to test the freezing point of coolant by placing a few drops of coolant on the prism surface.
- 15 The _____ measures the density of the coolant.

DOWN

- 1 _____ is similar to the OAT-type antifreeze as it uses organic acid salts that are not abrasive to water pumps, yet provide the correct pH.
- 2 _____ is half of the coolant and can have an effect on the corrosion protection of coolant due to variations in its quality, which is often unknown.
- 4 _____ is used in Mazda-based Fords, same as Mazda FL-22, and is ethylene glycol based.
- 6 _____ has a small amount of a substance that makes it taste bitter and therefore not appealing to animals.
- 7 When testing for pH, use either a _____ or a pH meter.