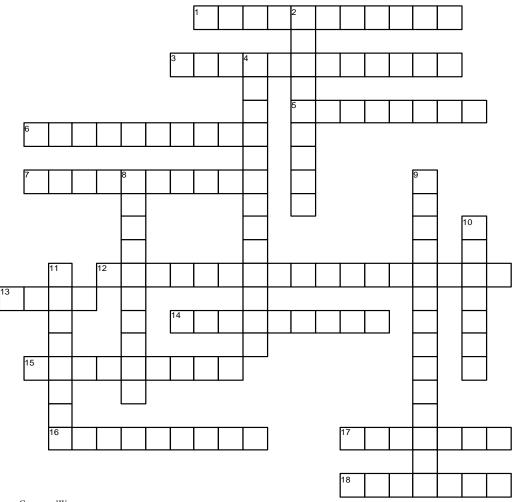
## Diesel Engine Cooling System Chapter 5



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## ACROSS

1	is a chemical reaction that takes place between
	coolant additives and the metal that
3	thespring operates a valve that allows the fan to
	freewheel when the radiator is cool.
5	activity is the flow of an electrical current as the
	result of two different metals in an acidic or alkaline liquid,
	which acts like a battery.
6	is a tester that measures the density of the coolant.
7	An thermostat uses a wax pellet to open and a
	spring to close it, but it also uses an electric heater controlled
	by the PCM to accurately control engine coolant temperature.
12	This coolant has a small amount of a substance that makes it
	taste bitter, and therefore, not appealing to people or animals
13	is a newer variation of OAT technology using organic
	acid salts (carboxylates) that are not abrasive to water pumps,
	yet provide the correct pH.
14	a Is a centrifugal pump that can move a large
	volume of coolant without increasing the pressure of the
	coolant.
15	are used to transfer the heat in the coolant to the
	outside air.

16	some vehicles use a, which is located at the	
	highest level of the cooling system and holds about 1 quart (1	
	liter) of coolant.	
17	is a brand of OAT coolant, which has been used in	
	General Motors vehicles since e 1996.	
18	is a mixture of water and antifreeze.	
DOWN		
2	additive technology is conventional coolant that	
	has been used for over 50 years. Most conventional green	
	antifreeze contains inorganic salts.	
4	a tester used to test the freezing point of coolant by	
	placing a few drops of coolant on a prism surface.	
8	Ais a device that controls coolant temperature.	
9	based coolant is a coolant that consists of	
	47% ethylene glycol, 50% water, and 3% additives.	
10	engine operating temperatures must be above a	
	temperature for proper engine operation.	
11	Coolant flows through the engine coolant, where it	
	picks up heat. it then flows to the radiator, where the heat is	
	given up to the outside air.	

