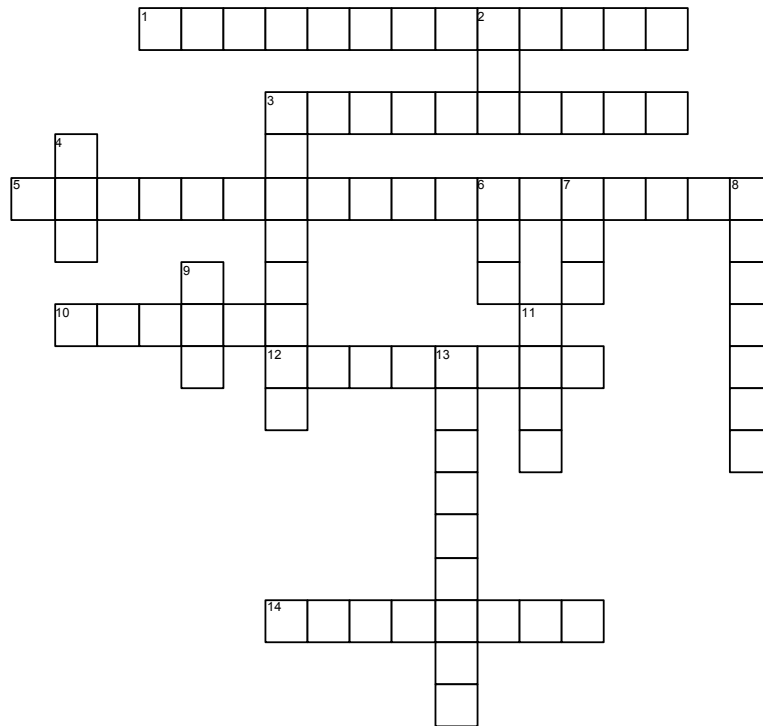


# Emission Control Devices

## Chapter 42



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### ACROSS

- 1 The \_\_\_\_\_ solenoid is normally closed and is pulsed open by the PCM during purging.
- 3 A \_\_\_\_\_ contains a spring-type metallic disc or reed that closes under exhaust backpressure.
- 5 A \_\_\_\_\_ is an after treatment device used to reduce exhaust emissions outside of the engine.
- 10 \_\_\_\_\_ is the term used to describe when combustion gases are forced past the piston rings and into the crankcase.
- 12 Another name for the SAI pump is a \_\_\_\_\_.
- 14 One of the elements found in a catalytic convert is \_\_\_\_\_.

### DOWN

- 2 \_\_\_\_\_ systems were developed to ventilate the crankcase and recirculate the vapors to the engine's induction system so they can be burned in the cylinders.
- 3 The catalytic converter uses a \_\_\_\_\_, which is a chemical that helps start a chemical reaction but does not enter into the chemical reaction.
- 4 The \_\_\_\_\_ system provides the air necessary for the oxidizing process either at the exhaust manifold or inside the catalytic converter.
- 6 Excessive \_\_\_\_\_ emissions are controlled by the EGR system and the catalytic converter.
- 7 \_\_\_\_\_ is an emission control system that lowers the amount of NOx formed during combustion.
- 8 One of the elements found in a catalytic convert is \_\_\_\_\_.
- 9 NOx reduction converters are also called \_\_\_\_\_.
- 11 The common term used to describe air pollution is \_\_\_\_\_, a word that combines two words: smoke and fog.
- 13 One of the elements found in a catalytic convert is \_\_\_\_\_.