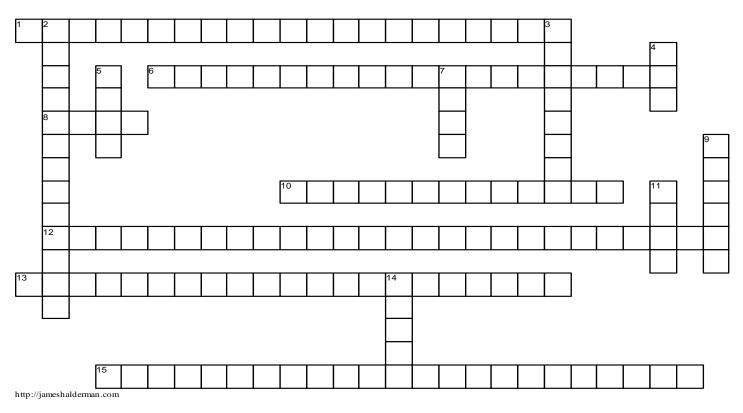
## Vehicle Emission Standards and Testing

Chapter 26



## ACROSS

- 1 Federal emission standards are set by the \_\_\_\_\_ \_\_\_ \_\_\_ of 1990 grouped by tier.
- 6 The \_\_\_\_\_ is the test used to certify all new vehicles before they can be sold.
- 8 \_\_\_\_\_ is a vehicle certified to meet the transitional low-emission vehicle standards established by the CARB.
- **10** The higher the CO reading, the richer the air-fuel mixture, therefore CO is the \_\_\_\_\_.
- **12** The \_\_\_\_\_\_ type of test uses a dynamometer that applies a heavy load on the vehicle at a steady-state speed.
- 13 \_\_\_\_\_ is the standard by which exhaust emission testing for hy drocarbons is evaluated.
- **15** The states must submit to the EPA a \_\_\_\_\_ for their programs.

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- **2** The higher the O2 level, the leaner the exhaust, therefore oxy gen is the \_\_\_\_\_.
- 3 Evaporative emissions are determined using the \_\_\_\_\_, which measures the evaporative emissions from the vehicle after a heat-up period representing a vehicle sitting in the sun.
- **4** The <u>category</u> is largely restricted to electric vehicles and hydrogen-fueled vehicles.
- **5** All vehicles nationwide must meet the \_\_\_\_\_\_ standard, which started in 2001.
- 7 A \_\_\_\_\_ is compliant with the SULEV standard; additionally has near-zero evaporative emissions and a 15-year/150,000 mile warranty on its emission control equipment.
- **9** If a vehicle meets the PZEV standards and is using high-technology features, such as an electric motor or high-pressure gasous fuel tanks for compressed natural gas, it qualifies as a \_\_-\_\_\_.
- **11** Oxides of nitrogen contribute to the formation of photochemical \_\_\_\_\_ when sunlight reacts chemically with NOx and unburned hydrocarbons.
- **14** \_\_\_\_\_ is an enriched oxy gen molecule with three atoms of oxy gen instead of the normal two atoms of oxy gen.

