Vehicle Emission Standards And Testing
Chapter 39

ACROSS

3 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 __-____.

7 The _______________ is the test used to certify all new vehicles before they can be sold.

10 The _______________ type of test uses a dynamometer that applies a heavy load on the vehicle at a steady-state speed.

11 _______________ is the standard by which exhaust emission testing for hydrocarbons is evaluated.

12 The states must submit to the EPA a _______________ for their programs.

14 The higher the O2 level, the leaner the exhaust, therefore oxygen is the _______________.

15 Federal emission standards are set by the _______________ of 1990 grouped by tier.

DOWN

1 All vehicles nationwide must meet the ____ standard, which started in 2001.

2 ____ is a vehicle certified to meet the transitional low-emission vehicle standards established by the CARB.

4 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.

5 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.

6 The ____ category is largely restricted to electric vehicles and hydrogen-fueled vehicles.

8 The higher the CO reading, the richer the air-fuel mixture, therefore CO is the _______________.

9 Oxides of nitrogen contribute to the formation of photochemical ____ when sunlight reacts chemically with NOx and unburned hydrocarbons.

13 ____ is an enriched oxygen molecule with three atoms of oxygen instead of the normal two atoms of oxygen.