

Ethanol Fuel Emissions Testing and Vehicle Certification B-Roll

Scene-by-Scene Description

Get the facts behind the footage available on the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy (EERE) B-Roll Web site at eere.energy.gov/news/b_roll.cfm.

Video Title: Ethanol Emission Testing and Vehicle Certification B-Roll

Video Only/No Audio

Location: Aurora, Colorado

Total Running Time: 2:47

Scene 1: 00:05: Multiple ethanol fuel (E15) testing stations measuring vehicles' exhaust output in normal driving conditions. E15 fuel consists of gasoline blended with 15% ethanol and was approved for sale by the Environmental Protection Agency (EPA) in October 2010 after extensive vehicle emissions and engine testing by DOE.

Scene 2: 01:04: E15 ethanol fuel testing bay as it measures exhaust output in normal driving conditions. The various components involved in the vehicle testing and certification are shown in close-up as the vehicle is tested.

Learn More about Ethanol as an Alternative Fuel

Ethanol is a renewable fuel that can be produced from various organic materials—and it is increasingly blended with gasoline to help reduce both greenhouse gas emissions and the nation's dependency on imported oil. E85 (85% ethanol blended with 15% gasoline) is used to fuel flexible fuel vehicles (FFVs), which can operate on gasoline, E85, or a mixture of the two. Whatever the proportion, the use of ethanol promotes more complete combustion of the fuel, helping to decrease harmful carbon monoxide emissions.

E15 fuel incorporates ethanol in the inverse proportions of E85: 15% ethanol and 85% gasoline. After reviewing testing of E15 performed by DOE, the EPA waived a limitation on selling fuel containing more than 10% ethanol in October 2010. Now, up to 15% ethanol is allowed for use in model year 2007 and newer cars and light trucks. Continued federal, state, and industry action will promote the commercialization of this “greener” gas blend.

To learn more about alternative fuels, visit the EERE Alternative Fuels and Advanced Vehicles Data Center Web site at afdc.energy.gov/afdc.