



## A Newsletter for Fleet Emissions Inspection Facilities and Inspectors

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VEI Web site: [www.carcare.azdeq.gov](http://www.carcare.azdeq.gov)

### Liquid Fuel Leak Test

Beginning next year (2009), vehicles must pass a liquid fuel leak inspection as a part of the emissions test. Model year 1975 and newer vehicles, except diesel or those subject to OBD, will be required to pass the inspection. Also exempt are those vehicles fueled by compressed gas (CNG, LNG or LPG).

Technicians must visually observe under-hood and under vehicle for any obvious fuel leakage. A fuel leak is defined as any fuel *“in liquid form and that has created an obvious dripping, pooling or puddle on, around or under the vehicle’s engine, fuel system or evaporative system”*.

The test is conducted with the vehicle engine running. It is performed visually; special tools are not required, nor is it necessary to remove or disassemble any vehicle components. The test will be required at ADEQ emissions inspection stations and all fleet inspection stations beginning April 1, 2009. Fleets may begin performing and recording the test during the first quarter of the year, but must be performing the test on April 1, 2009.

### Procedure for Performing Liquid Fuel Leak Test

This is not a difficult or time-consuming procedure. As stated above, the test is required on all 1975 and newer vehicles at the time of emissions inspection. The rule applies to fleet and state emissions testing facilities.

Exempted from the test are those vehicles powered by compressed natural gas (CNG), liquid (liquefied) natural gas (LNG), liquid (liquefied) petroleum gas (LPG), diesel powered vehicles and vehicles subject to the OBD inspection.

The vehicle to be tested is started and the hood opened. The inspector, using a flashlight and a small mirror (if necessary) looks over the engine for any obvious dripping, pools or puddles of fuel. Particular attention is paid to the areas around carburetors, fuel injectors, fuel lines and filters, pressure regulators or other fuel delivery or metering devices. If a leak is identified, the vehicle fails the test. If no leaks are detected, the inspector proceeds to the underside of the vehicle, and, again, looks for obvious leaks along fuel lines, fuel tanks (including fill pipes and caps), fuel return or recovery lines and charcoal canisters.

If a leak is detected the vehicle fails the test. If no leak is identified, the vehicle has passed the inspection, and the inspector may proceed to other parts of the emissions testing.

An obvious liquid fuel leak is one that causes a notable drip, or puddle of fuel to be seen during the time it takes to look over the vehicle. As the inspector looks over the running engine, an “obvious” leak will have sufficient time to cause a noticeable pool or puddle. As the inspector moves to the underside of the vehicle, leaks in the fuel delivery system will have had sufficient time to leave a visual dripping or puddle of fuel under the vehicle. If no leak exists of sufficient volume to be obvious to the inspector, the vehicle can be passed.

Fleet inspectors will indicate the passing liquid fuel leak (LFL) results on the VE-160 as a “P” in the opacity box.

### Diagnostic Aids

Do your customers come in after failing emissions without data to help you diagnose their vehicle? Have you looked at the ADEQ Web site [www.azdeq.gov](http://www.azdeq.gov) lately? Check the VEI home page. There you will find a search function to look up the emissions test history of any vehicle in the system and for which you have the VIN.

If the vehicle you are servicing has had an IM147 test, you can also find the second-by-second “drive trace” from the last test. These and other aids are available to you on our web site 24/7. Visit [www.azdeq.gov](http://www.azdeq.gov).

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## Specialty Training

Does your business have new employees in administration or sales who need to understand the emissions inspection and recording requirements? Can your inspection staff benefit from specialized training in OBD, IMI47 or other emissions related topics? We can help. Custom seminars can be arranged at VEI or at your facility. The seminars are free. Call or e-mail Adrion Osborne for more information or to discuss your needs. (602) 207-7011 or alo@azdeq.gov.



## Fourth Quarter Training Schedule

OCTOBER 2008	
Fleet	Dates
Government and Fleet Shop	7-8
Dealers	21-22
Diesel	9
Tucson	28-29

  

NOVEMBER 2008	
Fleet	Dates
Government and Fleet Shop	9-10
Dealers	16-17
Diesel	11
Tucson	23-24

  

DECEMBER 2008	
Fleet	Dates
Government and Fleet Shop	2-3
Diesel	4
Tucson	9-10