

# STATE OF CONNECTICUT

## Regulation of Environmental Protection

### Section 1

Section 22a-174-27 of the Regulations of Connecticut State Agencies is amended to read as follows:

#### **Section 22a-174-27. Emission standards for periodic motor vehicle inspection and maintenance**

(a) Applicability.

This section shall apply to any owner or operator of a 1968 and later model year motor vehicle which is not an antique, rare or special interest motor vehicle as defined in section 14-1 of the general statutes. This section shall not apply to motor vehicles that are exempt pursuant to section 14-164c(c) of the general statutes.

(b) Definitions. For purposes of this section the definitions contained in subdivision (1) through (16) shall apply.

(1) "ASM 2525" or "Acceleration Simulation Mode Test" means an emissions test performed at a steady state of twenty-five (25) miles per hour (mph) and which utilizes a dynamometer load set to simulate 25% of the power required to accelerate the particular vehicle being tested at 3.3 mph/second until a speed of 25 mph is attained. Such test shall analyze exhaust gas concentration, by percent by percent CO and PPM of NO and HC, and compare the test results to the maximum allowable exhaust emission standards for CO, NO and HC as published by the United States Environmental Protection Agency in section 85.1(a) of the "Acceleration Simulation Mode Test Procedures, Emission Standards, Quality Control Requirements, and Equipment Specifications, Technical Guidance" EPA-AA-RPSD-IM-96-2 (July, 1996) except that the word "should" in subdivisions (1) and (2) of section 85.1(a) shall be replaced with the word "shall";

(2) "CO" means carbon monoxide;

(3) "CFR" means Code of Federal Regulations;

(4) "HC" means hydrocarbon;

- (5) "Composite Motor Vehicle" or "COMPO" means a vehicle which is constructed from the component parts of two or more motor vehicles of different model year or vehicle type;
- (6) "g/mi" means grams per mile;
- (7) "Gross Vehicle Weight Rating" or "GVWR" means the value specified by the manufacturer as the maximum loaded weight of a single or a combination (articulated) vehicle, or its registered gross weight, whichever is greater. The GVWR of a combination (articulated) vehicle commonly referred to as the "Gross Combination Weight Rating" or GCWR is the GVWR of the power unit plus the GVWR of the towed unit or units;
- (8) "Idle test procedure with loaded preconditioning" means an analysis of exhaust gas concentration, by percent CO and HC, in accordance with "recommended I/M short test procedures for the 1990's: Six Alternatives" section 4, EPA-AA-TSS-I/M-90-3 (January 1991);
- (9) "Light-duty truck" or "LDT" means a motor vehicle rated at 10,000 lbs. GVWR or less and is designed:
  - (A) To transport property or ten (10) or more persons, not including the operator; or
  - (B) With features enabling off-street or off-highway operation and use;
- (10) "Light-duty vehicle" or "LDV" means a motor vehicle that is designed:
  - (A) To carry not more than ten (10) persons, including the operator; and
  - (B) To transport persons and their property with at least fifty percent of the total area enclosed by the outermost body contour lines, excluding the area enclosing the engine;
- (11) "Loaded vehicle weight" or "Lvw" means vehicle curb weight plus three hundred pounds (300 lbs.);
- (12) "NO" means nitric oxide;
- (13) "ppm" means parts per million by volume;
- (14) "THC" means total hydrocarbons;

(15) "Vehicle curb weight" is defined as in 40 CFR section 86.082-2; and

(16) "vol. %" means percent by volume.

(c) Emission standards.

(1) Idle exhaust emission standards. Maximum allowable emissions for any vehicle subject to an idle exhaust emission test with loaded preconditioning administered by the Commissioner of Motor Vehicles or his designee shall be:

Vehicle Model Year	CO (Vol. %)	THC (ppm)
1968-69	5.00	500
1970	4.75	475
1971	4.40	450
1972	4.25	425
1973	4.00	390
1974	3.80	350
1975	3.00	300
1976	2.80	300
1977	2.70	300
1978	2.40	275
1979	2.10	250
1980	2.00	225
1981	1.20	200
1982	1.20	200
1983	1.00	175
1984	1.00	150
1985	1.00	150
1986	1.00	150
1987	1.00	150
1988 and later	1.00	125

(2) ASM 2525 exhaust emission standards. Maximum allowable emissions for any vehicle subject to an ASM 2525 exhaust emission test administered by the Commissioner of Motor Vehicles or his designee shall be as published by the United States Environmental Protection Agency in subdivision (1) of section 85.1(a) of the "Acceleration Simulation Mode Test Procedures, Emission Standards, Quality Control Requirements, and Equipment Specifications, Technical Guidance" EPA-AA-RPSD-IM-96-2 (July, 1996). After December 31, 1999, maximum allowable emissions for any vehicle subject to an ASM 2525 exhaust emission test administered by the Commissioner of Motor Vehicles or his designee shall be as published by the United States Environmental Protection Agency in subdivision (2) of section 85.1(a) of the "Acceleration Simulation Mode Test Procedures, Emission Standards, Quality Control Requirements, and

Equipment Specifications, Technical Guidance" EPA-AA -RPSD-IM-96-2 (July, 1996).

- (3) Visible emission standards. Maximum allowable visible emissions for diesel powered LDVs and LDTs of model years 1968 and later, shall be 20% particulate opacity as determined by any opacity meter.
- (d) Undetermined GVWR. Where the gross vehicle weight rating cannot be determined, the emission standard for LDVs shall apply.
- (e) Composite vehicles. Where the vehicle is designated "COMPO" in the "make" field of the registration certificate, the emission standards for model year 1968 shall apply.
- (f) Alteration or replacement of vehicle engine.
  - (1) Any vehicle with an engine other than the one originally installed by the manufacturer or an identical replacement of such engine shall be subject to the test procedures and standards for the chassis type and model year of the vehicle.
  - (2) Any vehicle that is re-engineered from an internal combustion gasoline engine to another combustion or fuel type, shall be subject to the test procedures and standards for a gasoline-powered vehicle.