

PART F Maximum Allowable Emissions Limits for Motor Vehicle Exhaust, Evaporative and Visible Emissions for Light-Duty and Heavy-Duty Vehicles

In order for a vehicle (owner) to obtain a Certificate of Emissions Compliance, the exhaust and evaporative emissions from the motor vehicle subject to an EPA approved emissions test as specified in Part C of this regulation may not exceed the applicable maximum concentrations or if applicable, maximum mass for exhaust carbon monoxide (CO), hydrocarbons (HC) and oxides of nitrogen (NO_x); and the integrity requirements specified for fuel evaporation control and visible smoke.

I. LIGHT-DUTY VEHICLES (INCLUDING LIGHT-DUTY TRUCKS) SUBJECT TO IDLE SHORT TEST(S) FOR ALL VEHICLES OF MODEL YEAR 1981 AND NEWER SUBJECT TO IDLE SHORT TEST(S), THE EMISSIONS CONCENTRATION LIMITS OF THIS SECTION I SHALL ALSO APPLY AT RAISED IDLE SPEEDS AS SPECIFIED IN SECTION II OF PART C OF THIS REGULATION.

I.A. Maximum Concentration Limits for Light-Duty Vehicles (Includes Light-Duty Trucks)

Model Year	Percent Carbon Monoxide	Parts/million Hydrocarbon
1970 and earlier	3.5	1000
1971	3.0	1000
1972	3.0	1000
1973	3.0	1000
1974	3.0	1000
1975	2.0	600
1976	2.0	600
1977	1.5	400
1978	1.5	400
1979	1.5	400
1980	1.5	400
1981 and newer	1.2	220

II. HEAVY-DUTY VEHICLES (1978 AND EARLIER GREATER THAN 6000 LBS. GVWR) SUBJECT TO IDLE SHORT TEST(S) FOR ALL VEHICLES OF MODEL YEAR 1981 AND NEWER SUBJECT TO IDLE SHORT TEST(S), THE EMISSIONS CONCENTRATION LIMITS OF THIS SECTION II SHALL ALSO APPLY AT RAISED IDLE SPEEDS AS SPECIFIED IN SECTION II OF PART C OF THIS REGULATION.

II.A. Maximum Concentration Limits for Heavy-Duty Vehicles

Model Year	Percent Carbon Monoxide	Parts/million Hydrocarbon
1967 and earlier	7.0	1500
1968	6.5	1200
1969	6.5	1200
1970	5.5	1000
1971	5.5	1000
1972	5.5	1000
1973	5.5	1000
1974	5.5	1000
1975	5.5	1000
1976	5.5	1000
1977	5.5	1000
1978	5.5	1000

Model Year	Percent Carbon Monoxide	Parts/million Hydrocarbon
Heavy-Duty Vehicles (1979 and Newer Greater Than 8500 lbs. GVWR) Subject to Idle Short Test(s)		
1979	4.0	800
1980	3.5	800
1981	3.0	600
1982	3.0	600
1983	3.0	600
1984	3.0	600
1985	3.0	600
1986 and newer	2.0	300

III. TRANSIENT TEST MASS EMISSIONS LIMITS IN GRAMS/MILE (GPM)

III.A. Light-Duty vehicles (Excluding Light-Duty Trucks)

MODEL YEAR	HC	CO	NOx
1982	3.5	45.0	5.0
1983	3.5	30.0	4.5
1984	3.0	30.0	4.5
1985	2.5	20.0	4.5
1986	2.5	20.0	4.5
1987	2.5	20.0	4.0
1988	2.0	20.0	4.0
1989	2.0	20.0	4.0
1990	2.0	20.0	3.5
1991	1.5	20.0	3.5
1992	1.5	15.0	3.5
1993	1.5	15.0	3.5
1994	1.2	15.0	3.0
1995	1.2	15.0	2.5
1996	1.2	15.0	2.0
1997	1.2	15.0	2.0
1998	1.2	15.0	1.5
1999 and newer	1.2	15.0	1.5

III.B. Light-Duty Trucks (equal to or less than 8,500 lbs. G.V.W.R.)

MODEL YEAR	HC	CO	NOx
1982	6.0	65.0	6.0
1983	6.0	65.0	6.0
1984	5.0	55.0	6.0
1985	4.5	45.0	6.0
1986	4.0	40.0	6.0
1987	3.5	30.0	5.5
1988	3.0	25.0	5.0
1989	3.0	25.0	5.0
1990	3.0	25.0	5.0
1991	2.5	25.0	4.5
1992	2.5	25.0	4.5
1993	2.5	25.0	4.5
1994	2.0	20.0	4.0
1995	2.0	20.0	4.0
1996	1.2	15.0	3.5
1997	1.2	15.0	3.0
1998	1.2	15.0	2.5
1999 and newer	1.2	15.0	2.0

IV. EVAPORATIVE EMISSIONS CONTROL STANDARDS

System Integrity - A gas cap integrity check to assess the degree of leakage between the fuel filler neck sealing surface and the gasoline cap sealing surface shall be performed on all model year 1975 and newer vehicles.

IV.A. Pressure decay of the gasoline cap to filler neck sealing surfaces shall not exceed six (6) inches of water over a ten (10) second period, or

- IV.B. The gasoline cap flow rate shall be compared to an orifice with a National Institute of Standards and Technology (NIST) traceable flow rate that will result in a pass/fail flow rate threshold of 60 cc/minute of air at 30 inches of water (column).

V. VISIBLE SMOKE

Vehicles shall not exhibit any continuous gray, blue, blue-black, or black smoke of greater than 5% opacity from the engine crankcase and/or tailpipe(s) during any engine operating condition of applicable inspection procedures.

VI. CLEAN SCREEN PROGRAM MAXIMUM ALLOWABLE EMISSIONS LIMITS

- VI.A. In order to obtain a Certificate of Emissions Control through the Clean Screen Program, vehicles must not exceed maximum emissions concentrations of 0.50 percent carbon monoxide (CO), 1,000 parts per million nitrogen oxides (NO_x), and 200 parts per million hydrocarbon (HC) as reflected in remote sensing emissions readings.
- VI.B. Vehicle owners who participate in the Clean Screen Program shall not be subject to the provisions of this Part F other than this Section VI.
- VI.B.1. On or before July 1st of each year the Air Pollution Control Division shall develop a low emitting vehicle index based on a tabulation of the previous calendar year's inspection program results for specified make, model and model year of vehicles.
- VI.B.2. A passing rate for emissions shall be set as the minimum allowable passing criteria for the low emitting vehicle index.
- VI.B.3. In developing the low emitting vehicle index, the Division may use passing criteria as necessary to ensure that the use of the low emitting vehicle index is equivalent to or better than the use of a second remote sensing measurement in terms of air quality benefits.
- VI.B.4. The passing rate criteria for the low emitting vehicle index shall be submitted to the U.S. EPA on or before July 1 of each year.

VII. ON-BOARD DIAGNOSTIC INSPECTION PASSING CRITERIA

In order for a vehicle (owner) to obtain a certificate of emissions compliance, the results of the OBD inspection as specified in Part C, Section II.C. of this regulation must meet the following requirements:

- VII.A. The data link connector (DLC) is not missing, has not been tampered with, and is operational
- VII.B. The malfunction indicator light (MIL) illuminates when the ignition key is turned to the key on, engine off (KOEO) position.
- VII.C. The MIL extinguishes and remains off once the vehicle's engine is started (KOER).
- VII.D. The MIL status, as indicated by the on-board diagnostic test analyzer system is commanded off.