§ 86.1506 Equipment required and specifications; overview.

(a) This subpart contains procedures for performing idle exhaust emission tests on Otto-cycle heavy-duty engines and Otto-cycle light-duty trucks. Equipment required and specifications are as follows:

(1) Exhaust emission tests. All engines and vehicles subject to this subpart are tested for exhaust emissions. Necessary equipment and specifications appear in §§ 86.1509 through 86.1511.

(2) Fuel and analytical tests. Fuel requirements for idle exhaust emission testing are specified in § 86.1513. Analytical gases are specified in § 86.1514.

(b) Through the 2009 model year, manufacturers may elect to use the appropriate test procedures in this part instead of the procedures referenced in 40 CFR part 1065 without getting advance approval by the Administrator.

§ 86.1509 Exhaust gas sampling system.

(a) The exhaust gas sampling system shall transport the exhaust sample from the engine or vehicle to the analysis system in such a manner as to maintain the integrity of the sample constituents that are to be analyzed.

(b) The sample system shall supply a dry sample (i.e., water removed) to the analysis system.

(c) A CVS sampling system with bag or continuous analysis as specified in 40 CFR part 1065 is permitted. The inclusion of an additional raw carbon dioxide (CO₂) analyzer as specified in 40 CFR part 1065 is required if the CVS system is used, in order to accurately determine the CVS dilution factor. The heated sample line specified in 40 CFR part 1065 for raw emission requirements is not required for the raw (CO₂) measurement.

(d) A raw exhaust sampling system as specified in 40 CFR part 1065 is permitted.

Interference gas | Concentration | Applicable analyzer
--- | --- | ---
CO₂ | 14 percent | CO