

40 C.F.R. § 86.096-24

Test vehicles and engines.

- (a) *General.* This paragraph applies to the grouping of vehicles or engines into families.
- (1) The vehicles or engines covered by an application for certification will be divided into groupings of engines which are expected to have similar emission characteristics throughout their useful life. Each group of engines with similar emission characteristics is defined as a separate engine family.
- (2) To be classed in the same engine family, engines must be identical in all the respects listed in paragraphs (a)(2) (i) through (x) of this section.
- (i) The cylinder bore center-to-center dimensions.
- (ii)-(iii) [Reserved]
- (iv) The cylinder block configuration (air-cooled or water-cooled: L-6, 90 deg., V-8, and so forth).
- (v) The location of the intake and exhaust valves (or ports).
- (vi) The method of air aspiration.
- (vii) The combustion cycle.
- (viii) Catalytic converter characteristics.
- (ix) Thermal reactor characteristics.
- (x) Type of air inlet cooler (for example, intercoolers and after-coolers) for diesel heavy-duty engines.

(3)

- (i) Engines identical in all the respects listed in paragraph (a)(2) of this section may be further divided into different engine families if the Administrator determines that they may be expected to have different emission characteristics. This determination will be based upon a consideration of the features of each engine listed in paragraphs (a)(3)(i) (A) through (G) of this section.
- (A) The bore and stroke.
- (B) The surface-to-volume ratio of the nominally dimensioned cylinder at the top dead center positions.
- (C) The intake manifold induction port sizes and configuration.
- (D) The exhaust manifold port size and configuration.
- (E) The intake and exhaust valve sizes.

- (F) The fuel system.
- (G) The camshaft timing and ignition or injection timing characteristics.
- (ii) Light-duty trucks and heavy-duty engines produced in different model years and distinguishable in the respects listed in paragraph (a)(2) of this section are treated as belonging to a single engine family if the Administrator requires it, after determining that the engines may be expected to have similar emission deterioration characteristics.

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