

---

# 40 C.F.R. § 1042.230

---

## Engine families.

---

- (a) For purposes of certification, divide your product line into families of engines that are expected to have similar emission characteristics throughout the useful life as described in this section. You may not group engines in different engine categories in the same family. Your engine family is limited to a single model year.
- (b) For Category 1 engines, group engines in the same engine family if they are the same in all the following aspects:
- (1) The combustion cycle and the fuel with which the engine is intended or designed to be operated.
  - (2) The cooling system (for example, raw-water vs. separate-circuit cooling).
  - (3) Method of air aspiration.
  - (4) Method of exhaust aftertreatment (for example, catalytic converter or particulate trap).
  - (5) Combustion chamber design.
  - (6) Nominal bore and stroke.
  - (7) Cylinder arrangement (such as in-line vs. vee configurations). This applies for engines with aftertreatment devices only.
  - (8) Method of control for engine operation other than governing (*i.e.*, mechanical or electronic).
  - (9) Application (commercial or recreational).

This document is only available to subscribers. Please [log in](#) or [purchase access](#).

[Purchase Login](#)