

§ 1051.520

[67 FR 68347, Nov. 8, 2002, as amended at 69 FR 2442, Jan. 15, 2004]

§ 1051.520 How do I perform exhaust durability testing?

This section applies for durability testing to determine deterioration factors for exhaust emissions. Small-volume manufacturers may omit durability testing if they use our assigned deterioration factors that we establish based on our projection of the likely deterioration in the performance of specific emission controls.

(a) Calculate your deterioration factor by testing a vehicle or engine that is representative of your engine family at a low-hour test point and the end of its useful life. You may also test at intermediate points.

(b) Operate the vehicle or engine over a representative duty cycle for a period at least as long as the useful life (in hours or kilometers). You may operate the vehicle or engine continuously.

(c) You may perform critical emission-related maintenance during durability testing, consistent with § 1051.125(a). You may not perform any other emission-related maintenance during durability testing.

(d) Use a linear least-squares fit of your test data for each pollutant to calculate your deterioration factor.

(e) You may ask us to allow you to use other testing methods to determine deterioration factors, consistent with good engineering judgment.

Subpart G—Compliance Provisions

§ 1051.601 What compliance provisions apply to vehicles and engines subject to this part?

Engine and vehicle manufacturers, as well as owners, operators, and rebuilders of these vehicles, and all other persons, must observe the requirements and prohibitions in part 1068 of this chapter and the requirements of the Act. The compliance provisions in this subpart apply only to the vehicles and engines we regulate in this part.

40 CFR Ch. I (7–1–04 Edition)

§ 1051.605 What are the provisions for exempting vehicles from the requirements of this part if they use engines you have certified under the motor-vehicle program or the Large Spark-ignition program?

(a) You may ask for an exemption under this section if you are the manufacturer of an engine certified under the motor-vehicle program or the Large Spark-ignition program. See § 1051.610 if you are not the engine manufacturer.

(b)(1) The only requirements or prohibitions from this part that apply to a vehicle that is exempt under this section are in this section and § 1051.610.

(2) If the vehicles do not meet the criteria listed in paragraph (c) of this section, they will be subject to the standards and prohibitions of this part. Producing these vehicles without a valid exemption or certificate of conformity would violate the prohibitions in § 1068.101 of this chapter.

(3) Vehicles exempted under this section are subject to all the requirements affecting engines and vehicles under 40 CFR part 86 or part 1048, as applicable. The requirements and restrictions of 40 CFR part 86 or 1048 apply to anyone manufacturing these engines, anyone manufacturing vehicles that use these engines, and all other persons in the same manner as if these engines were used in a motor vehicle or other non-recreational application.

(c) If you meet all the following criteria regarding your engine, the vehicle using the engine is exempt under this section:

(1) The vehicle is produced using an engine or incomplete vehicle covered by a valid certificate of conformity under 40 CFR part 86 or part 1048.

(2) No changes are made to the certified engine or vehicle that we could reasonably expect to increase any of its regulated emissions. For example, if any of the following changes are made to the engine, it does not qualify for this exemption:

(i) Any fuel system or evaporative system parameters are changed from the certified configuration (this does not apply to refueling emission controls).

(ii) Any other emission-related components are changed.