

PART 5

FINAL REGULATION ORDER

Tier 4 Off-Road Compression-Ignition Engines

Title 13

California Code of Regulations

Sections 2421, 2423, 2424, 2425, 2425.1, 2426, 2427

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§ 2427. Production Engine Testing, Selection, Evaluation, and Enforcement Action.

(a) ~~Compliance Test Procedures~~ Compliance Test Procedures.

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(9) ~~Primary Sampling Plan~~ Primary Sampling Plan.

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(10) ~~Alternate Sampling Plan for Low Volume Engine Family Groups~~ Alternate Sampling Plan for Low Volume Engine Family Groups.

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(b) ~~Quality Audit Test Procedures~~ Quality-Audit Test Procedures.

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(4) ~~Applicability~~ Applicability.

These procedures shall apply to all certified 1996-1999 model year heavy-duty off-road compression-ignition engine family groups.

If a manufacturer cannot provide actual California sales data, it shall provide its total production and an estimate of California sales. The manufacturer shall also provide supporting material for its estimate.

(5) ~~Engine Sample Selection~~ Engine Sample Selection.

For each family group with California sales volumes of 150 units or more per year, the manufacturer shall select for quality audit testing a representative sample of three engines or one percent of production, whichever is greater, from the highest sales volume engine family within the entire engine family group. For engine family groups with California sales volumes of less than 150 units per year, no testing shall be required unless requested by the Executive Officer based upon information and belief that such engine family groups are in noncompliance with applicable regulations. Each selected engine for quality-audit testing must pass the inspection test, by being equipped with the appropriate emission control systems certified by the ARB. The procedure for selecting engines must be submitted to the Chief, Mobile Source Division, 9528 Telstar Avenue, El Monte, CA, 91731, prior to the start of production for the 1996 model year.

(6) ~~Engine Preparation and Preconditioning~~ Engine Preparation and Preconditioning.

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(7) ~~Quality-Audit Engine Selection Criteria~~ Quality-Audit Engine Selection Criteria.

(A) Engines shall be representatively selected.

(B) At the end of each calendar quarter, all of the data accumulated during the quarter shall be reported to the Executive Officer. Upon accumulation of sufficient data, the compliance of the engine family group with the emission standards is determined.

(8) ~~Standards and Test Procedures; Evaluation~~ Standards and Test Procedures; Evaluation.

The exhaust sampling and analytical procedures shall be those described in the 1996-1999 Heavy-Duty Test Procedures. An engine family group is considered to have failed the quality audit test if the average emissions do not comply with the applicable certification standards. Any corrective action to bring the engines into compliance with the standards must be applied to all engines in the engine family group reasonably expected to be in noncompliance based on the audit data and other relevant information.

(9) ~~Reports~~ Reports.

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(c) ~~Selective Enforcement Audit~~ Selective Enforcement Audit.

(1)(A) The 2000 and later model year Tier 1, Tier 2, and Tier 3 off-road compression-ignition engines certified for sale in California shall be subject to the Selective Enforcement Audit requirements specified in Subpart F of the 2000 Plus Limited Test Procedures.

(B) The 2008 and later model year Tier 4 off-road compression-ignition engines certified for sale in California shall be subject to the Selective Enforcement Audit requirements specified in Subpart E of Part 1068 of the 2008-2010 Test Procedures or Part I-E of the 2011 and Later Test Procedures as applicable.

(2) These procedures specify the Selective Enforcement Audit test procedures in conjunction with the 2000 Plus Limited Test Procedures and the 2000 and Later Test Procedures. An engine is in compliance with these Selective Enforcement Audit standards and test procedures only when all portions of these Selective Enforcement Audit test procedures are fulfilled.

(3) Air Resources Board (ARB) personnel and mobile laboratories shall have access to engine or equipment assembly plants, distribution facilities, and test facilities for the purpose of engine selection, testing, and observation. Scheduling of access shall be arranged with the designated manufacturer's representative and shall not unreasonably disturb normal operations.

(d) Any manufacturer obtaining certification under this part shall supply to the Executive Officer, upon request, a reasonable number of production engines selected by the Executive Officer which are representative of the engines, emission control systems, fuel systems, and transmissions offered and typical of production models available for sale under the certificate. These engines shall be supplied for testing at such time and place and for such reasonable periods as the Executive Officer may require. Heavy-duty engines supplied under this paragraph may be required to be mounted in chassis and appropriately equipped for operation on a chassis dynamometer.

NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43102, 43104 and 43105, Health and Safety Code. Reference: Sections 43013, 43017, 43018, 43101, 43102, 43104 and 43210-43212, Health and Safety Code.