

# Off-Road Diesel Vehicle Regulation

## Overview



The homepage of the regulation, with updates and information is:

[www.arb.ca.gov/ordiesel](http://www.arb.ca.gov/ordiesel)

### The regulation applies to:

All self-propelled off-road diesel vehicles over 25 horsepower used in California, except personal use vehicles, vehicles used solely for agriculture, vehicles that are awaiting sale (rental vehicles are not exempt), vehicles covered by the cargo-handling rule, or vehicles which can only be moved on rail.

Emergency operations vehicles, dedicated snow removal vehicles, part-time agriculture, and low-use vehicles (under 100 hours per year, with an hour meter) must be reported to ARB and labeled, but are exempt from the turnover and retrofit requirements.

**Summary:** The regulation imposed limits on idling, buying older off-road diesel vehicles, and selling vehicles beginning in 2008; requires all vehicles to be reported to ARB and labeled in 2009; and then in 2010 begins gradual requirements for fleets to clean up their fleet by getting rid of older engines, using newer engines, and installing exhaust retrofits. The overall purpose of the regulation is to reduce emissions of oxides of nitrogen (NOx) and particulate matter (PM) from off-road diesel vehicles.

**Effective June, 2008  
All Fleets**

The following requirements are in effect and being enforced:

1. **BUYING Tier 0 Vehicles Prohibited** – No fleet subject to the regulation may purchase a Tier 0 off-road diesel vehicle; Tier 0 vehicles were vehicles produced without an emission standard, generally before 1996. The advisory below lists the years in which Tier 0s were made.  
More information – [www.arb.ca.gov/enf/advs/advs390.pdf](http://www.arb.ca.gov/enf/advs/advs390.pdf)
2. **IDLING Limited to 5 Minutes** – Exceptions for vehicles that need to idle to perform work (such as a crane providing hydraulic power to the boom), or vehicles being serviced, or in a queue waiting for work.  
More information – [www.arb.ca.gov/enf/advs/advs377.pdf](http://www.arb.ca.gov/enf/advs/advs377.pdf)

**WRITTEN Idling Policy** – Medium and large fleets (those with over 2,500 horsepower of off-road diesel vehicles) must have a written idling policy.

More information - [www.arb.ca.gov/enf/advs/advs391.pdf](http://www.arb.ca.gov/enf/advs/advs391.pdf)

Suggested language - [www.arb.ca.gov/msprog/ordiesel/guidance/writtenidlingguide.pdf](http://www.arb.ca.gov/msprog/ordiesel/guidance/writtenidlingguide.pdf)

3. **SELLING Any Off-road Diesel Vehicle** – The seller (whether a dealer or a contractor with just one vehicle) must provide disclosure of the regulation on the bill of sale or invoice, with the exact language provided in the regulation, and keep records for three years.  
More information and necessary language - <http://www.arb.ca.gov/enf/advs/advs378.pdf>

**Reporting and Labeling Vehicles  
April 1 to August 1, 2009**

These requirements are already in effect for all fleets.

Reporting can be completed using ARB's free online reporting tool; more information on how to report and what information to report is available at:  
[https://secure.arb.ca.gov/ssldoors/doors\\_reporting/reporting.php](https://secure.arb.ca.gov/ssldoors/doors_reporting/reporting.php)

After a fleet reports their vehicles to ARB, ARB will assign Equipment Identification Numbers (EINs) to every vehicle. The fleet must label the vehicle (ARB will not issue labels, the fleet may paint on the ID number, create or buy a sticker, or use a placard) within 30 days of receiving the ID number.

More information about how the labels must appear is available at:  
[www.arb.ca.gov/msprog/ordiesel/faq/faq-labeling.pdf](http://www.arb.ca.gov/msprog/ordiesel/faq/faq-labeling.pdf)

A list of label vendors who can create labels for your vehicles is online at:  
[www.arb.ca.gov/msprog/ordiesel/labelvendors.htm](http://www.arb.ca.gov/msprog/ordiesel/labelvendors.htm)



Vehicle Labeled with EIN

## Emissions and Performance Requirements

**March 1, 2010  
Large Fleets Only:  
Over 5000 HP**

On March 1, 2010, large fleets must be in compliance with the requirements shown below. Large fleets are those over 5,000 hp, and state and federal agencies. These requirements continue each year through 2020.

Large fleets have two basic requirements in each year: **NOx** and **PM**. After initial reporting in 2009, large fleets must report each year from 2010 to 2020, detailing how they met the NOx and PM requirements.

**1. Comply with the NOx requirements by:**

**Meeting the fleet average targets for NOx** – The NOx fleet average is based on the average amount of NOx your vehicles are emitting and is calculated from each vehicle's engine model year and horsepower. If you meet the NOx fleet average, you have met your NOx requirements for the year.

OR

**Turning over 8 percent of the fleet's horsepower** – 'Turn over' means replacing older vehicles with newer ones, repowering with newer engines, retiring Tier 0s, moving to electric or alternative fuel vehicles, designating vehicles as permanent low-use (under 100 hrs per year), rebuilding to a higher emissions standard, or installing NOx-reducing retrofits.

## 2. Comply with the PM requirements by:

**Meeting the fleet average targets for PM** – Similar to the NOx requirements, the PM fleet average is based on the average amount of PM your vehicles are emitting and is calculated from each vehicle's engine model year and horsepower. If you meet the PM fleet average, you have met your PM requirements for the year.

OR

**Retrofitting 20 percent of the fleet horsepower** – For large fleets not meeting the PM fleet averages, the fleet must install ARB-verified retrofits on 20 percent of the fleet horsepower (if the vehicles can viably and safely be retrofit). Alternatively, the fleet can retire Tier 0s and not replace the horsepower – i.e. so that the total fleet horsepower is shrinking.

**Early credit:** Fleets may meet their turn-over and retrofit requirements with early credits. ARB has an explanation of early credits available at:

<http://www.arb.ca.gov/msprog/ordiesel/faq/faq-early-credit.pdf>

Note that the early credit guidance document does not discuss the proposal for new credits for reduced activity and reducing horsepower, to be considered by the Board in July.

**Determining Compliance:** In the near future (expected summer 2009), the reporting tool, DOORS, will help fleets determine what the best strategy is for them – whether they can meet the fleet averages or need to meet the 8 percent turnover and 20 percent retrofit requirements.

**March 1, 2013  
Medium Fleets:  
2,501 to 5,000 HP**

On March 1, 2013, medium fleets must begin to meet the NOx and PM requirements described above. The fleets must meet the same NOx and PM fleet averages as large fleets, or turn over their engines and retrofit their vehicles. The medium fleet requirements continue each year until 2020.

After initial reporting in 2009, medium fleets must report to ARB every year from 2012 to 2021, detailing how they met the NOx and PM requirements.

**March 1, 2015  
Small Fleets:  
2,500 HP and Under**

On March 1, 2015, small fleets must begin to meet the **PM requirements as described above only**. The fleet averages are calculated as described for large fleets, however they are more lenient for small fleets. The small fleet requirements continue each year from 2015 through 2025.

Small fleets do not have to meet the NOx requirements. This means they do not have to turn over any vehicles. Hence, small fleets do not have to replace or retire any vehicles, even if a vehicle can not be retrofit.

After initial reporting in 2009, small fleets must report to ARB every year from 2014 to 2026, detailing how they met the PM requirements.

For more information, and guidance, visit the regulation knowledge center –  
<http://www.arb.ca.gov/msprog/ordiesel/knowcenter.htm>