clean truck, bus, and trailer requirements

DRIVING TOWARDS A CLEANER FUTURE

Important facts for
owners and operators

visit us on the web at:
www.arb.ca.gov/truckstop

or email at:
8666diesel@arb.ca.gov

or call:
866-6 DIESEL (866-634-3735)

California Environmental Protection Agency
Air Resources Board

All diesel trucks, buses, trailers, and transport refrigeration units, or "reefers," operating in California, including those based out of state, are required to take steps to reduce air pollution.

This brochure describes requirements that apply to diesel trucks, buses, trailers, and reefer units.

ARB's mission is to ensure that all Californians can live, work, and play in a healthful environment free from harmful exposure to air pollution. To help achieve this, ARB has adopted regulations to control emissions from many sources. Emissions from diesel engines contribute to local, regional, and global air pollution that harms millions of Californians.

Visit us on the web at:
www.arb.ca.gov/truckstop

or call:
866-6 DIESEL (866-634-3735)

visit us on the web at:
www.arb.ca.gov/truckstop

or email at:
8666diesel@arb.ca.gov

or call:
866-6 DIESEL (866-634-3735)

NOTES:

OVERVIEW OF CALIFORNIA REQUIREMENTS

ALL diesel vehicles and equipment operating in California, even those based out of state, are currently subject to the following emission reduction requirements:

Vehicle Inspection Program

Heavy-duty vehicles operating in California are subject to basic maintenance requirements that are verified by random roadside inspections of engine smoke emissions and tampering.

Periodic Smoke Inspection Program

Applies to California based fleets with two or more heavy-duty vehicles. Requires fleets to perform smoke opacity tests for their vehicles each year and to maintain records for a minimum of two years.

Commercial Idling Requirements

Prohibits idling longer than five minutes. Shorter idling limits apply when within a school zone.

Engine Emission Control Label (ECL)

All heavy-duty commercial vehicles need to have proof that their engines meet emissions requirements at least as stringent as U. S. federal standards for the engine model year. A properly affixed manufacturer emission control information label is required as proof the engine meets these standards.

NEW requirements for all vehicles will further reduce diesel exhaust and greenhouse gas emissions. These reductions require the retrofit and/or upgrade of existing vehicles and equipment. The following pages detail these requirements and the vehicles to which they apply.

BASIC REQUIREMENTS FOR TRUCK AND BUS ENGINES

TRACTORS THAT ENTER PORTS AND RAIL YARDS

The following are important compliance dates for diesel-fueled tractors with a gross vehicle weight rating (GVWR) greater than 33,000 pounds that enter California ports or intermodal rail yards:

SEPTEMBER 30, 2009

Tractors must be registered in the statewide Drayage Truck Registry available online at: ***www.arb.ca.gov/drayagetruck***

JANUARY 1, 2010

Pre-1994 model year engines are no longer allowed. Tractors with 1994-2003 model year engines must install exhaust retrofits to reduce particulate matter (or soot) emissions by 85 percent.

JANUARY 1, 2012

2004 model year engines must have exhaust retrofits.

JANUARY 1, 2013

2005-2006 model year engines must have exhaust retrofits.

JANUARY 1, 2014

All tractor engines must meet at least 2007 emission standards.

JANUARY 1, 2021

Phase-in of 2010 model year engines or equivalent starts.

LOAN GUARANTEES

Loans are available for truck replacements, exhaust retrofits, aerodynamic retrofits, and low rolling resistance tires for vehicles and equipment subject to the truck and bus engine requirements, or the long haul greenhouse gas emission reduction requirements.

To qualify, vehicles must operate at least 50% of the time in California and the fleet owner must have:

20 or fewer vehicles

100 or fewer employees

Annual average revenues of $10 million or less

Loans are available for transport refrigeration unit purchases in conjunction with the purchase of a SmartWay Certified trailer or other products eligible for financing under the loan program.

Loans are also available for purchase of 2011 model year and newer SmartWay Certified 53-foot or longer box-type trailers.

For more information or to apply for a loan, contact the ARB, your local dealership, or bank.

FINANCIAL ASSISTANCE

Programs to assist with early compliance

Financial assistance is available to help fleets and individuals comply early with current California regulations. Equipment owners are encouraged to apply as early as possible to maximize funding options.

AVAILABLE FUNDING AND REQUIREMENTS

GRANTS

Vehicles that operate at least 75% of the time in California or 50% of the time in California's trade corridors may apply for funding for:

REPLACEMENT of a 2003 model year or older heavy duty diesel truck. Up to $50,000 is available for purchase of a new or used replacement truck equipped with 2007 model year or newer engine. Funding is limited and highly competitive. However, greater opportunities exist for replacement of 1993 model year and older trucks, vehicles with high annual mileage, and trucks in fleets of three or fewer vehicles.

RETROFIT of a 2006 model year or older heavy duty truck. At least $5,000 is available for ARB-verified diesel emission control devices (exhaust retrofits).

Limited grant funding only for retrofits or alternative technologies such as electric, electric standby, or pure cryogenics is available for transport refrigeration units.

Grants are available through:

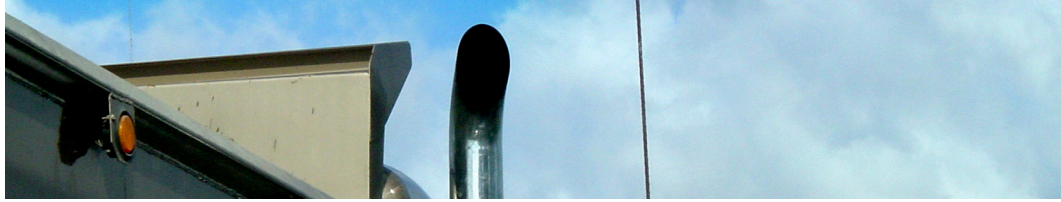
The Carl Moyer Program

The Voucher Incentive Program

The Goods Movement Emission Reduction Program

Local Air District and seaport programs

For more information or to apply for funding, contact the ARB, your local Air District, dealership, or seaport.



TRUCKS AND BUSES THAT DO NOT ENTER PORTS AND RAIL YARDS

The following are important compliance dates for most other diesel trucks and buses with a GVWR over 14,000 pounds. In addition, these also apply to certain yard trucks equipped with off-road certified engines and certain diesel shuttle vehicles:

MARCH 31, 2010

Early reporting for fleets taking advantage of extended deadlines for agriculture vehicles and for fleets that have downsized since 2008.

JANUARY 1, 2011

First compliance deadline to reduce soot emissions. Small fleets with 3 or fewer vehicles that report can delay the performance requirements until January 1, 2014.

JANUARY 1, 2013

First requirements to phase in 2010 model year (emissions) engines.

JANUARY 1, 2014

First compliance deadline for small fleets to reduce exhaust emissions.

JANUARY 1, 2023

All vehicles are required to have a 2010 model year engine or equivalent.

SPECIAL PROVISIONS

Certain vehicles and situations qualify for extended compliance deadlines. These include:

Low usage vehicles
Agricultural vehicles
Unique vehicles
Certain cab-over engine tractors
Three-day pass
School buses
Motor coaches
Two engine sweepers
Small fleets
Credit for vehicle retirement
Credit for early exhaust retrofit
Operation in attainment areas
Credit for hybrid vehicles
Credit for alternative fuel vehicles
Exhaust retrofit safety issues
Manufacturer delays

BASIC REQUIREMENTS FOR LONG-HAUL TRACTORS AND TRAILERS

Greenhouse gas reduction requirements

The following applies to all 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and all heavy-duty tractors that pull them on California highways:

TRACTOR REQUIREMENTS:

JANUARY 1, 2010

2011 model year and newer SLEEPER CAB tractors must be SmartWay Certified. 2011 model year and newer DAY CAB tractors must have low rolling resistance tires.

JANUARY 1, 2012

All 2010 model year and older SLEEPER CAB and DAY CAB tractors must have low rolling resistance tires.

TRAILER REQUIREMENTS:

JANUARY 1, 2010

2011 model year and newer trailers must be either SmartWay Certified or equipped with low rolling resistance tires and retrofitted with SmartWay approved aerodynamic technologies.

JULY 1, 2010

Large fleets (21 or more trailers) must report to take advantage of an optional phase-in timeline OR meet the JANUARY 1, 2013 trailer compliance deadline.

JULY 1, 2012

Small fleets (20 or less trailers) must report to take advantage of an optional phase-in timeline OR meet the JANUARY 1, 2013 trailer compliance deadline.

JANUARY 1, 2013

Unless registered by the optional phase-in deadlines above, all 2010 model year and older box-type trailers must be SmartWay Certified or equipped with low rolling resistance tires and retrofitted with SmartWay approved aerodynamic technologies.

NOTE: 2003-2008 model year refrigerated van trailers have until 2018-2020 to comply.

BASIC REQUIREMENTS FOR TRANSPORT REFRIGERATION UNITS

The following applies to transport refrigeration units, or reefers, that operate in California:

EXISTING ARB REQUIREMENTS

Equipment registration

Owners of reefers and transport refrigeration unit generator sets that are based in California are currently required to register equipment with the ARB at: ***www.arb.ca.gov/tru***

JULY 31, 2009

Deadline for all California based transport refrigeration units to be registered with the ARB and for Initial Operator Reports to be submitted.

DECEMBER 31, 2009

All 2002 model year and older transport refrigeration unit engines must be equipped with exhaust filters or be replaced.

DECEMBER 31, 2010 - ON

The compliance deadline for each subsequent model year engines is December 31, seven years after the engine model year.