



U.S. General Services Administration



FedFleet 2023: CARB Regulations

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www.gsa.gov/FedFleet |
January 2023



What is CARB?

- California Environmental Protection Agency
 - **The California Air Resources Board**
- Established August 30, 1967
- Federal Air Quality Act of 1967
 - **CARB sets its own air standards**
- The United States Environmental Protection Agency sets nationwide air quality and emissions standards and oversees state efforts and enforcement.
- The California Air Resources Board focuses on California's unique air quality challenges by setting the state's own **stricter emissions standards for a range of statewide pollution sources including vehicles, fuels and consumer products.**

CARB Programs

Truck and Bus

Tractor Trailer - GHG

Drayage

TRU (Reefer)

Diesel Off-Road

Solid Waste

Opacity Inspections

Heavy Duty I/M

Advanced Clean Cars

Advanced Clean Trucks

Advance Clean Fleets

HDVIP

PSIP

EVSE Standards

Zero Emission Fleet

Fuel Cell Activities

Current Regulations

- Air Resources Board Equipment Registration (ARBER) for Transport Refrigeration Units (TRU)
- Truck Regulation Upload, Compliance and Reporting System (TRUCRS)
- Tractor-Trailer GHG
- Large Entity Reporting (Advanced Clean Trucks survey)
- Period Smoke Inspection Program (PSIP) - opacity

today

Future Regulations

- Heavy Duty Inspection and Maintenance Program (Jan 1, 2024)
 - Potential impact - 900 GSA Fleet vehicles
 - Bi-annual testing, over 14,000 GVWR
- Advance Clean Fleets (ACF) - *Proposed*
 - Potential impact - 6,600 GSA Fleet vehicles
- ZEV TRU Regulation - *Proposed*
 - Potential impact - 62 GSA Fleet vehicles
 - Would ban non-ZEV TRUs



FPMR Compliance

§102-34.290—Must our motor vehicles pass State inspections?

Yes, your motor vehicles must pass State inspections where mandated.

(a) Each motor vehicle owned or leased by the Government must pass Federally-mandated emission inspections in the jurisdictions in which they operate when required by State motor vehicle administrations or State environmental departments. You must reimburse State activities for the cost of these inspections if the fee is not waived. GSA will pay the cost of these inspections for motor vehicles leased from the GSA Fleet.

CA Health and Safety Code 44019

a) **Every public agency**, including, but not limited to, a publicly owned public utility, owning or operating any motor vehicle **that is exempt from annual renewal of registration**, and is otherwise subject to this chapter, **shall obtain for the vehicle a certificate of compliance with the same frequency as is required for vehicles subject to renewal of registration**. The cost limitations specified in Section 44017 do not apply to any vehicle owned or operated by a public agency.

CARB



the TRUCK STOP
THE TRUCKSTOP
OFFICIAL CALIFORNIA TRUCK INFORMATION

REGULATIONS ▾ ZEV TRUCKSTOP ▾ OFF-ROAD ▾ CITATIONS ▾ EN ESPAÑOL ▾

New to zero-emission vehicles? Have questions? Not sure where to start?
Join our free Next-Stop to Zero virtual event series!

Learn More ▶

ZEV TRUCK STOP
Heavy-Duty Zero-

2010
Check Engine

Hire Compliant Fleets

Printable Resources

Financial Assistance

Training & Events

<https://ww2.arb.ca.gov/sites/default/files/truckstop/truckstop.html>

or

<https://ww2.arb.ca.gov/our-work/programs>

FedFleet
2023

CARB Listserv



Email Updates

To sign up for updates or to access your subscriber preferences, please enter your contact information below.

Subscription Type

Email Address *

https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=listserv

Current CARB Requirements

TODAY

ARBER Transport Refrigeration Units

- **Owners** and operators of diesel fueled transport refrigeration units (TRUs) **that operate in California are required to register California-based TRUs** in the ARBER system by applying for an ARB identification number (IDN).
- The Regulation **applies to** In-use diesel-fueled Transport Refrigeration Units (**TRUs**) and TRU generator sets **that operate in California**, whether they are registered in or outside the State.

ARB ER Website



Skip to: [Accessibility](#) | [A-Z Index](#)

 Google Advanced

ARB ER: AIR RESOURCES BOARD EQUIPMENT REGISTRATION

New Regulatory requirements for TRUs begin December 31, 2022. The Drayage Truck Regulation will no longer be in effect as of January 1, 2023. Starting January 1, 2023 drayage trucks will no longer register in ARBER. For more info contact the ARBER Helpline (888-878-2826 or arber@arb.ca.gov).

WELCOME TO ARBER, THE ARB EQUIPMENT REGISTRATION PROGRAM

ARB ER is an online registration program for the Drayage Truck and Transport Refrigeration Unit Regulations. Please review the online system and regulation requirements before attempting to use ARBER.

View the [Online Registration System Requirements](#).

Program Contacts

For general ARBER questions, send an email to arber@arb.ca.gov

Drayage Truck Registration -

Toll-Free Helpline: 1-888-247-4821
Direct Line: 1-916-322-2277
Email: drayagetruck@arb.ca.gov
See the [Drayage Truck Program](#).
See the [Help Pages](#).

Transport Refrigeration Unit and Generator Set Registration -

Toll-Free Helpline: 1-888-878-2826
Email: arber@arb.ca.gov
See the [Transport Refrigeration Unit Program](#).
See the [Help Pages](#).
See the [Compliance Extension Forms](#).

Other Diesel Program Contacts -

[Contact the Diesel Hotline](#)

LOGIN

User Id:
Password: (case-sensitive)

LOGIN

[I Forgot My Password](#)

Don't have an ARBER account?

Click the button below to sign up for a new User and Company account.

SIGN UP

Important Information for First Time Users -

In order to use ARBER, you must first set up a user and company profile. If you are a company that manages equipment that are owned by other companies, first create your company profile and then contact the appropriate ARB program contact to complete your setup.

TRU Model Information Upload



SEARCH AND
 Google Advanced

Home TRU Reports Account Admin Help

ARBER: AIR RESOURCES BOARD EQUIPMENT REGISTRATION

Logged in as: DrewWZ4Fleet | [Logout](#)

U.S. GENERAL SERVICES ADMINISTRATION

OON-048351 | Federal Office Bldg 50 United Nations Plz, San Francisco, CA, 94102-4912

EDIT

New Regulatory requirements for TRUs begin December 31, 2022. The Drayage Truck Regulation will no longer be in effect as of January 1, 2023. Starting January 1, 2023 drayage trucks will no longer register in ARBER. For more info contact the ARBER Helpline (888-878-2826 or arber@arb.ca.gov).

1. Model Information • 2. Compliance Information • 3. Certification • 4. Registration Confirmation

TRANSPORT REFRIGERATION UNIT MODEL INFORMATION

Use this page to enter/edit equipment information for your TRU's or TRU Gensets.

* Indicates required field

TRU RENTAL OR LEASE STATUS

Unit is rented or leased :

This is a unit I rent or lease to renter or lessee.

OWNER INFORMATION

Date Unit was Purchased, Rented, or Leased: *

(MM/DD/YYYY) format  

Owner: *

- I am the owner of this equipment (or employee of the owner).
- I am entering this information for the Owner and I have a Third Party Agreement in place (Consultant or Lessee).

When registering a piece of equipment on behalf of an owner, email a [Third Party Agreement](#) to ARBER@arb.ca.gov or fax to (916) 327-6251.

Owner's Tax Identification Number: *

Format for U.S.: 99-9999999, for Canada: BN-999999999, for Mexico: AAA999999AAX, where A is a letter, 9 is a numeric digit, and X is an alpha-numeric character.

<https://arber.arb.ca.gov/companyChange.arb?cxtUser=true>



TRU Registration Requirements

TRU Rental or Lease Status

Owner Information

Unit Type

Unit Manufacturer

Unit Model

Unit Model Year

Unit Serial Number

Refrigerant

Company Equipment Number

Vehicle Identification

Number (VIN)

Vehicle License Number

Country of Issuance

State/Province of Issuance

TRU Engine Manufacturer

TRU Engine Model

TRU Engine Serial Number

TRU Engine Power Rating

Compliance Requirements

Engine Model Year	Step 2: Compliance Date for ULETRU Standard
2002 that met LETRU in 2009	December 31, 2016
2009	December 31, 2016
2003 that met LETRU in 2010	December 31, 2017
2010	December 31, 2017
2011	December 31, 2018
2012	December 31, 2019
2013 and newer (<25 hp)	December 31st of the model year + 7 years
2013 (20-50 hp)	Compliant if engine meets Tier 4 Final

ULETRU Standard

ULETRU

- Level 3 PM exhaust retrofit ($\geq 85\%$ PM reduction)

-Tier 4f (25-50 hp) engine (available in new 2013 units only)

-Alternative technology



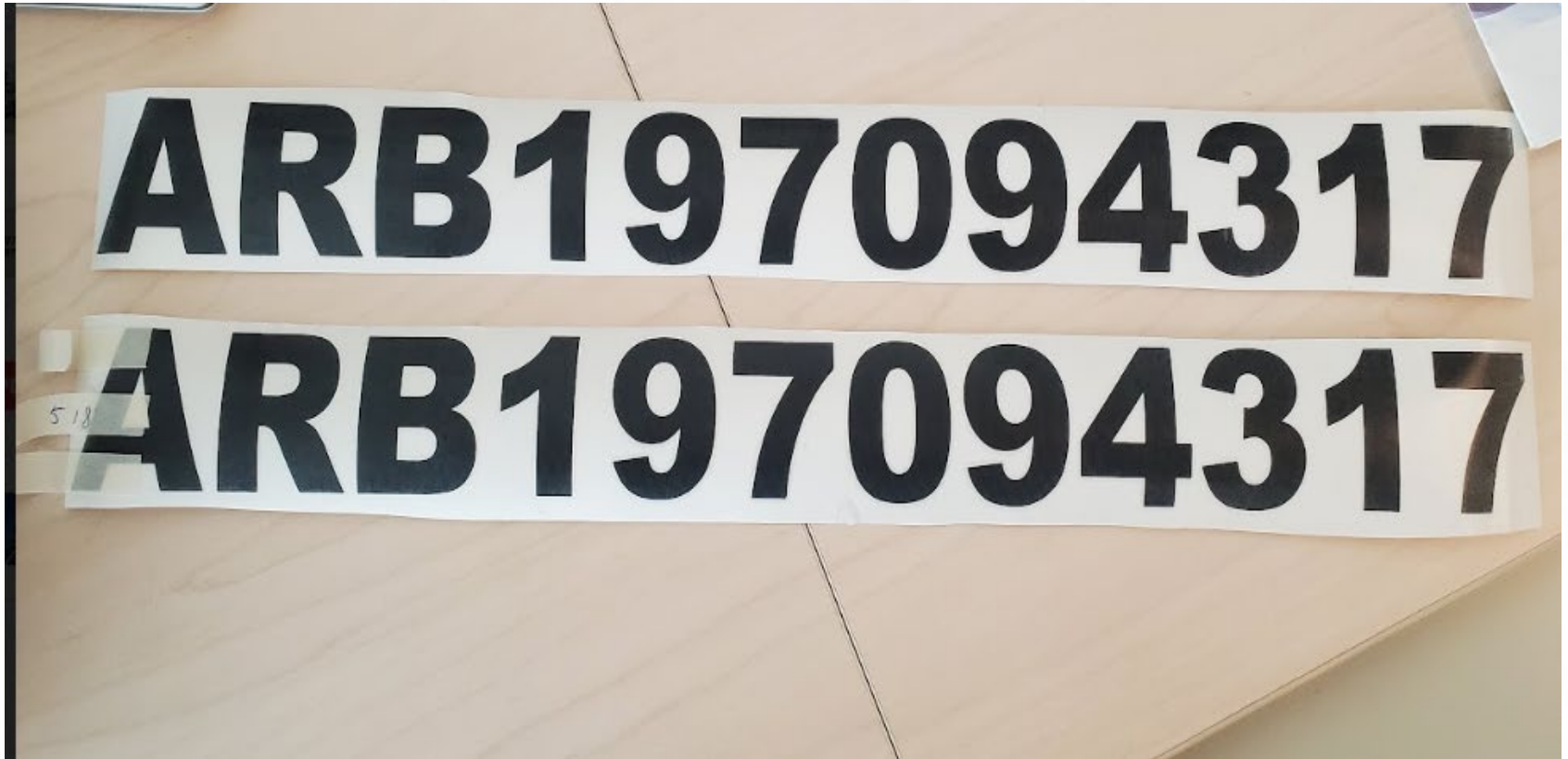
New TRU Regulatory Requirements

New TRU advisory as of December 2022

- More stringent refrigerant standards
- More stringent emission standards
- Facility requirements
- **Fee requirements** become effective 12/31/23
- **Zero emission TRU requirement**
- Compliance Delays



ARB IDN



ARB197094317 - G71-0826W



TRU Non-Op Label - G82-0013N



TRUCRS

Diesel vehicles between 14,001 and 26,000 lbs GVWR and 26,001 lbs GVWR and above must be equipped with a 2010 model year emission equivalent engine



What vehicles are affected by the Truck and Bus Regulation?

Truck Regulation Upload, Compliance and Reporting System

The Truck and Bus regulation affects individuals, private companies, and **Federal agencies** that **own** diesel vehicles with a Gross Vehicle Weight Rating (GVWR) greater than 14,000 lbs that operate in California.

The screenshot shows the homepage of the Truck and Bus Reporting System (TRUCRS) on the California Environmental Protection Agency (CEPA) website. The header includes the CA.GOV logo, the Air Resources Board name, and navigation links for Home, Reducing Air Pollution, Air Quality, Business Assistance, Laws & Regulations, and Health. A secondary header provides contact information for assistance: trucs@arb.ca.gov or call 1-866-6DESEL. The main content area is titled "Truck and Bus Reporting System" and includes a welcome message: "Welcome to the Truck Regulation Upload, Compliance and Reporting System (TRUCRS)". Below this are three main navigation buttons: "NEW USERS" (green), "EXISTING USERS" (yellow), and "RESOURCES" (dark blue). Under "NEW USERS" is a "Create New Account" button and a link for "Trouble logging into an existing account?". Under "EXISTING USERS" is a login form with fields for "Username" and "Password", a "Log In" button, and a link for "Forgot Username/Password?". Under "RESOURCES" is a list of links: "Who Must Report in 2016?", "Reporting Guide & FAQs", "How to Print a Certificate", "Report Non-Compliant Fleets", "Check Compliance Status", and "Paper Reporting Forms". The footer of the page reads "Truck and Bus Regulation".

Who Must Comply with TRUCRS?

Any person, business or agency that

- **Owns**, leases/rents, sells and **CA based** brokers and dispatchers
- Must verify hired fleets are in compliance
- Must provide sales disclosure in writing to buyer
- Exact language can be found on Advisory 416



TRUCRS Compliance Schedules

Lighter Vehicles
(14,001 - 26,000 GVWR)

Engine Model Year (Vehicle Model Year)	Replace or repower vehicle by
2000-2003 (2001-2004)	January 1, 2020
2004-2006 (2005-2007)	January 1, 2021
2007-2009 (2008-2010)	January 1, 2023

Heavier Vehicles ($\geq 26,001$ GVWR)

Engine Model Year (Vehicle Model Year)	Replace or repower vehicle by
1996-1999 (1997-2000)	January 1, 2020
2004-2006 (2001-2005)	January 1, 2021
2005-2006 (2006-2007)	January 1, 2022
2007-2009 (2008-2010)	January 1, 2023

Zone 4 is currently compliant and reporting two vehicles in TRUCRS

Engine Compliance Checker



Official California
Diesel Truck
Information



TRUCRS

ENGINE COMPLIANCE CHECKER

The Engine Compliance Checker is only applicable to federally and privately owned Diesel-powered vehicles with a GVWR greater than 14,000 lbs. This guide is not meant to replace legal counsel and only provides general guidelines. It is up to the user to determine final regulatory requirements.

What is the manufacturer's Gross Vehicle Weight Rating (GVWR)?

* Select *



How many miles does this vehicle drive in CA annually?

* Select *



Does this vehicle only operate in NOx-exempt counties and have a PM filter installed?

* Select *



What is the Engine Model Year of the vehicle?

* Select *



Vehicles that fall under regulation exemptions may require reporting in the Excluded Diesel Vehicle Reporting system in order to avoid having their registration erroneously blocked by California DMV.

✓ Submit

Additional Information - TRUCRS

arb.ca.gov/dieseltruck

ARB's diesel hotline at (866) 6DIESEL (634-3735)



Tractor-Trailer - TRUCRS GHG

- All tractors and trailers are required to have low-rolling resistance tires (LRRTs) as of January 1, 2017.
- Sleeper-cab tractors and trailer: Aerodynamic devices are currently required on all 2010 vehicle model year or newer.
- All other tractors and trailers: Aerodynamic devices are currently required on all 2010 vehicle model year or older, unless you have already reported in TRUCRS and are using exemptions as specified in Title 17 CCR § 95305 of the Regulation.

TRUCRS GHG Portal

CALIFORNIA
AIR RESOURCES BOARD

Home | Reducing Air Pollution | Air Quality | Business Assistance | Laws & Regulations | Health

[About ARB](#) | [Calendars](#) | [A-Z Index](#) | [Contact Us](#)

For assistance:
trucrs@arb.ca.gov
or call 1-866-6DIESEL

Truck Regulation Upload, Compliance, and Reporting System (TRUCRS)

Tractor-Trailer GHG Portal (Trailer Reporting)

[\(Click here for the Truck and Bus portal\)](#)

Currently Accepting Spreadsheet Version: **2.0.03**

Tractor/Trailer Greenhouse Gas Regulation

The regulation applies to 53' or longer box-type trailers (dry van and refrigerated van) and tractors that pull them. Fleets with 20 or fewer box-type trailers may take advantage of a phase-in option by reporting trailer information by September 1, 2012. The deadline for fleets with 21 or more box-type trailers to register has already passed. Additionally, the regulation currently requires all 2011 model year tractors that pull 53' or longer box-type trailers and all 2011 model year 53' or longer box-type trailers to be SmartWay certified or be retrofitted to comply. Fleets that have 2011 model year equipment and qualify for the short haul or local haul exemptions must report information about their 2011 model year equipment now. Reporting of other tractors and trailers within the fleet is not required at this time.

Please log in to enter or view your fleet information after you have requested a TRUCRS account. If you already have a DOORS account, you may use your existing user name and password.

User Name:

Usuario:

Password:

Contraseña:

[Forgot Password?](#)

Login

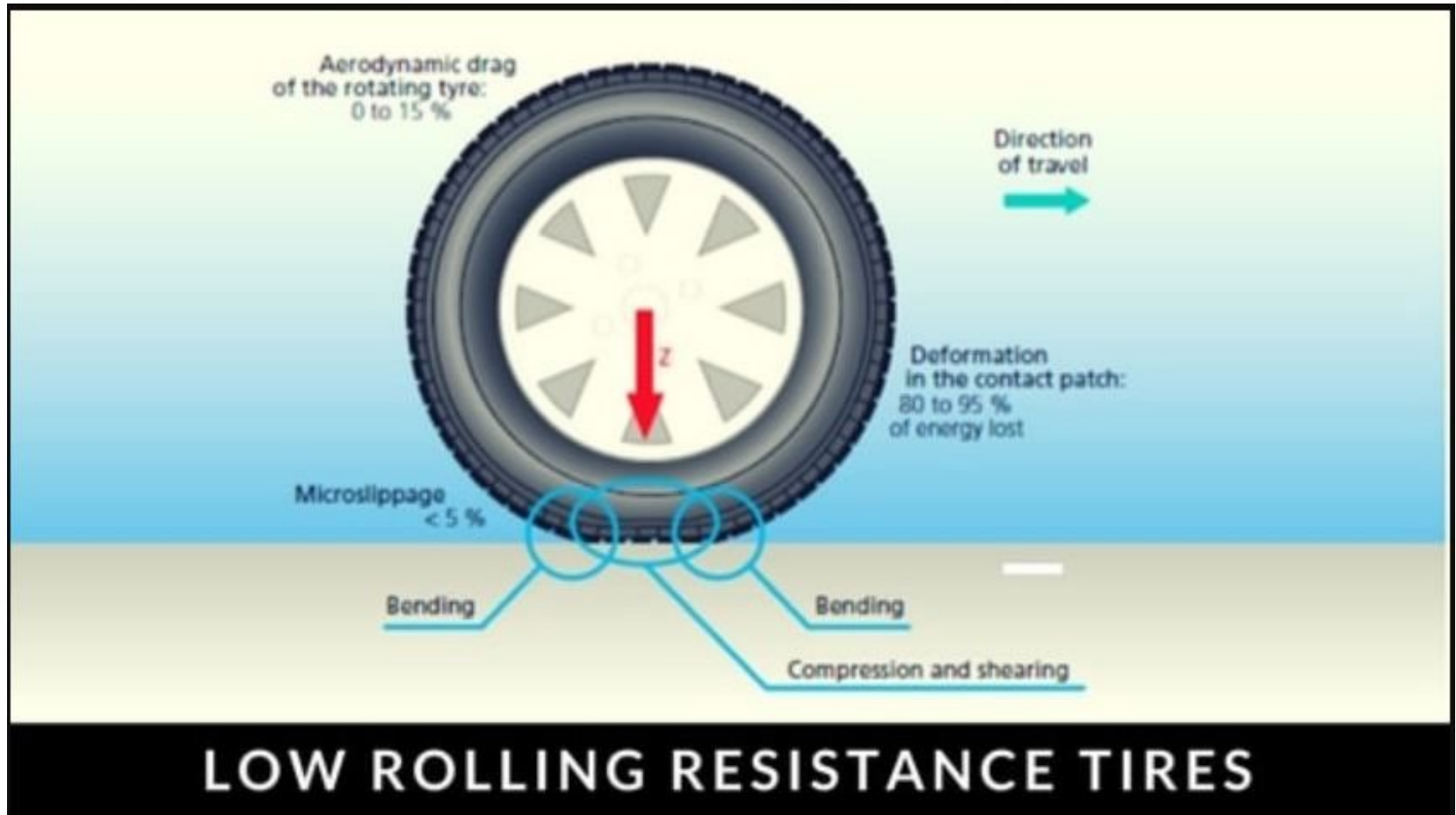
[\[Switch to Truck and Bus Reporting\]](#)

If this is the first time you are reporting with TRUCRS and do not have a DOORS account, you will need to request an account.

Smartway Certified



Low Rolling Resistance Tires



Periodic Smoke Inspection Program

Annual self-test for California based on-road fleets:

- 2 or more vehicles
- Diesel vehicles greater than 6,000 GVWR
- Engine MY older than 4 years
- Required once per calendar year
- Keep records for two years



Opacity Inspection



Recordkeeping Requirements

Fleets are required to maintain the **two most recent, consecutive years of PSIP test results for each vehicle**, including repair information, post-repair opacity results, and smoke meter calibrations.

CARB has the authority to audit records of all heavy-duty diesel vehicles at the owner/operator-designated fleet location.

Heavy-Duty Vehicle Inspection Program (HDVIP)

All heavy-duty trucks and buses over 6,000 pounds GVWR operating in California are subject to HDVIP **roadside inspections** by CARB staff. This includes vehicles registered in other states or foreign countries. **CARB inspectors may conduct unannounced tests at border crossings, CHP weigh stations, fleet facilities, and other selected roadside locations.** Vehicles are inspected for excessive smoke and tampering, and engine certification label compliance. Owners of trucks and buses found in violation are subject to minimum penalties starting at \$300 per violation.

Large Entity Reporting

- One-time reporting requirement of the Advanced Clean Trucks regulation.
- One-time reporting regulation for large entities that own, operate, or direct the movement of vehicles with a gross vehicle weight rating greater than 8,500 lbs
 - **Any federal government agency that had one or more vehicles over 8,500 lbs. GVWR that were operated in California in 2019.**
- **Involved approximately 500 GSA customers and 1200 vehs**
- A LER total of 1,866 entities reported, consisting of 7,767 facilities, for a total of 386,286 vehicles

Upcoming CARB Requirements



Heavy-Duty Inspection and Maintenance Program (HD I/M)

- By January 1, 2024, CARB will require medium and heavy vehicles with a GVWR >14,000 LBS to register in the CARB system, pay a registration fee of \$30, and begin transmitting vehicle emission data to CARB bi-annually.
- The PSIP is scheduled to sunset on January 1, 2024
- Vehicle owners may begin creating HD I/M accounts on July 1, 2023

HD I/M Regulation

- All non-gasoline heavy-duty vehicles operating in California with a GVWR greater than 14,000 lbs
- This includes:
 - All diesel, alternative fuel, and hybrid vehicles
 - All California, out-of-state, and out-of-country registered vehicles that operate within California

HD I/M Requirements

- The **initial registration fee and annual registration fee** is currently set at **\$30**
- **2013 EMY** and newer require an **OBD based test**.
- **2012 and older** EMY require an **opacity test and visual inspection**
- Beginning on 1/2024, the test **frequency requirement** for both categories of vehicles is **2X** per year. **After the third year**, 2013 EMY and newer vehicles will be required to submit test data **4X per year**, or quarterly. **2012 EMY** and older will remain at **2X per year**.
 - Approximately 667 vehicles meet the 2013 EMY and newer requirement
 - Approximately 194 vehicles meet the 2012 EMY and older requirement
 - **Frequency will be VIN based for non DMV registered vehicles using the last digit in the VIN**

Check Engine Light



CARB Websites

HD I/M Homepage

<https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program>

or

CARB Truck Stop

<https://ww2.arb.ca.gov/sites/default/files/trucks-top/truckstop.html>

ZEV TRU Compliance Schedule

Phase-in Compliance Schedule for ZE Truck TRU Fleet

Compliance Date as of December 31	Required ZE Truck TRU Fleet Percentage
2023	15%
2024	30%
2025	45%
2026	60%
2027	75%
2028	90%
2029 or later	100%

The new regulation impacting truck TRUs has been adopted by the Board. The trailer TRU schedule is next with adoption expected in 2025.



Advanced Clean Fleets (ACF)

The Board directed CARB staff to ensure that fleets, businesses, and public entities that own or direct the operation of medium- and heavy-duty vehicles in California purchase and operate ZEVs to achieve a smooth transition to ZEV fleets by 2045 everywhere feasible



Scope and Applicability

- **Own**, operate or direct 50 or more vehicles under common ownership or control
- **Federal government fleets**
 - Upload fleet data to CARB site. New vehicles must be reported within 30 days. Approximate Zone 4 fleet size - 6100 vehicles



Vehicles Within Scope

- **On-road vehicles with a GVWR above 8,500 lbs.**
- Off-road yard tractors
- On-road light-duty vehicles used for package, parcel, or mail delivery (New)



ZEV Milestones

ZEV Milestones Fleet Percentage	10%	25%	50%	75%	100%
Box trucks, van, two-axle buses, yard trucks, light-duty package delivery vehicles	2025	2028	2031	2033	2035
Work trucks*, day cab tractors, three-axle buses	2027	2030	2033	2036	2039
Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042



ZEV Milestone - Mixed Fleet

ZEV Milestone Example for Mixed Fleet A for High Priority and Federal Fleets

Vehicle Type	# of Vehicles	ZEVs in 2025	ZEVs in 2029	ZEVs in 2033	ZEVs in 2037	ZEVs in 2041	ZEVs in 2045
Box trucks, van, two-axle buses, yard trucks, light-duty package delivery vehicles	60	6	15	45	60	60	60
Work trucks*, day cab tractors, three-axle buses	20	0	2	10	15	20	20
Sleeper cab tractors and specialty vehicles	20	0	0	5	10	15	20
ZEV Milestones	100	6	17	60	85	95	100

Impacts and Considerations

- Advance Clean Fleets (ACF)
 - Compliance timeframes (2025-2042)
 - [Availability of medium and heavy duty ZEVs](#)
 - Cost of the vehicles
 - Out year budgeting, cost recovery
 - Infrastructure for MD/HD vehicles
 - Maintenance and repair/vendor network

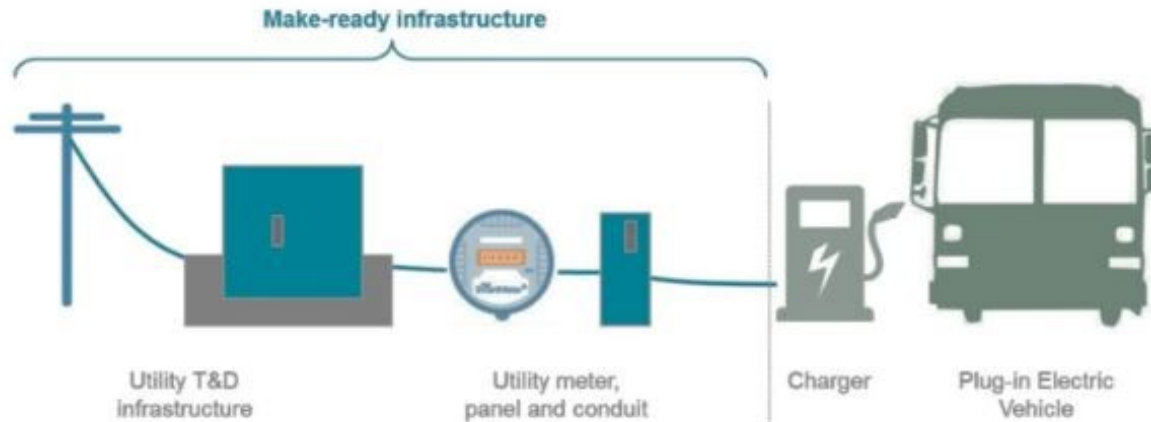


Additional Information on ACF

zevfleet@arb.ca.gov

ACF Homepage

<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>



Questions

Thank You!

Contact Us

- Drew Wonacott
- Jeremy Courtney
- Jason Portillo

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