Metro and you, building together.



Off-Road

off-road equipment	effective compliance date	requirement
Idling	June 15, 2008	ARB's regulation, Title 13, CCR, Section 2449, General Requirements for In-Use Off-Road Diesel-Fueled fleets, states that vehicles with a diesel-fueled or alternative diesel fueled off-road compression-ignition engine with 25 horsepower or greater may not idle for more than 5 consecutive minutes. Beginning on March 1, 2009, medium and large fleets must also have a written idling policy available to the operators.
Reporting and Labeling	August 1, 2009	ARB requires the reporting of fleet information via their online report tool - DOORS. Off-road vehicles are required to be labeled with ARB's ID number within 30 days of receiving it, effective August 1, 2009.
	January 1, 2013	ARB requires both sides of the off-road vehicle to be labeled by January 1, 2013.
Adding Vehicles to Fleet	January 1, 2013	Large and medium fleets, no vehicles with a Tier 1 engine may be added to fleet.
	January 1, 2016	Small fleets, no vehicles with a Tier 1 engine may be added to fleet.
	January 1, 2018	Large and medium fleets, no vehicles with a Tier 2 engine may be added to fleet.
	January 1, 2023	Small fleets, no vehicles with a Tier 2 engine may be added to fleet.
		Off-road engine emission standards are established by horsepower groups called Tiers:
		> Engine Model Years 1900 - 1999- Dirtiest engines are Tier 0, uncontrolled emissions.
		> Engine Model Years 1996 - 2005 - Tier 1 Engines depending on horsepower.
		> Engine Model Years 2001 - 2010 - Tier 2 Engines depending on horsepower.
		> Engine Model Years 2006 - 2011 - Tier 3 Engines depending on horsepower.
		> Engine Model Years 2008 & later- Tier 4i and Tier 4 engines depending on horsepower.- Tier 4 engines are the cleanest.

Off-Road continued

off-road equipment	effective compliance date	requirement		
Emissions and Performance Requirements	January 1, 2014 January 1, 2017 January 1, 2019	ARB's regulation, Title 13, CCR, Section 2449, General Requirements for In-Use Off-Road Diesel-Fueled fleets establishes performance requirements that must be met by January 1st of each compliance year (effective January 1, 2014) and requires the fleet to either meet the fleet average target based on the fleet's NOx emissions or the Best Available Control Technology (BACT). The fleet must retire, re-power, designate low-use, or retrofit a certain % of equipment (varies from 4.8% to 10% per year).		
		fleet size	compliance dates	
		Large (>5000 HP)	2014-2023	
		Medium (2501-5000 HP)	2017-2023	
		Small (<2500 HP)	2019-2028	
	January 1, 2019 - 2029 (see table to right)	The regulation also includes an alternative option for small fleets (equipment <500 horsepower): Compliance date: % of fleet (by hp) which must		
		January 1, of year	have a tier 2 or higher engine	
		2019	25	
		2022	50	
		2026	75	
		2029	100	
	January 1, 2029	All fleet vehicles must have Tier 2 or higher engines.		

Large fleet: A fleet with a total max hp greater than 5,000 hp. A fleet must meet large fleet requirements if the total vehicles under common ownership or control would be defined as a large fleet.

Medium fleet: A fleet that is not a small or large fleet.

Small fleet: A fleet with total max hp of less than or equal to 2,500 hp that is owned by a business, non-profit organization, or local municipality, or a local municipality fleet in a low population county irrespective of total max hp, a non-profit training center irrespective of total max hp, or a captive attainment area fleet irrespective of total max hp.



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effective compliance date

requirement

Emissions and Performance Requirements

November 30, 2018

ARB's regulation, Title 17, CCR Section 93116, Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater, establishes a regulation to reduce diesel particulate matter (PM) emissions from portable diesel-fueled engines having a rated brake horsepower of 50 and greater. All portable diesel-fueled engines must be certified to meet a Federal or California diesel PM emission standard for newly manufactured engines pursuant to 40 CFR Part 89, Part 86, or the equivalent categories in Title 13 of the California Code of Regulations.

Engines may not operate in California on or after the dates listed in the following schedule:

	50 to 7		
engine certification	large fleet	small fleet	>750 bhp
Tier 1	2020	2020	2022
Tier 2 built before 2009	2022	2023	2025
Tier 2 built on or after 2009	N/A	N/A	2027
Tier 3 built before 2009	2025	2027	N/A
Tier 3 built on or after 2009	2027	2029	N/A
Tier 1, 2, and 3 flex	17 years	after date of mai	nufacture

June 3, 2016

SCAQMD's Rule 1110.2, Emissions from Gaseous and Liquid Fueled Engines, establishes requirements to reduce NOx, VOCs and CO emissions from all gaseous and liquid fueled stationary and portable engines having a rated brake horsepower of 50 or greater. The operator of any portable diesel engine is required to comply with the applicable requirements of Title 17, CCR Section 93116, Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater. The operator of any portable spark-ignited engine is required to comply with the applicable requirements of Title 13CCR, Division 3, Chapter 15, Article 2, Large Spark Ignition Engine Fleet Requirements.

November 30, 2018

ARB's regulation, Title 13, CCR Section 2450, Regulation to Establish a Statewide Portable Equipment Registration Program, establishes a statewide program for the registration and regulation of portable engines (>50 horsepower) and engine-associated equipment (PERP). Portable engines and equipment units registered under the ARB program may operate throughout California without authorization or permits from air quality management or air pollution control districts. These regulations preempt districts from permitting, registering, or regulating portable engines and equipment units, including equipment necessary for the operation of a portable engine (e.g. fuel tanks), registered with ARB. Each compressionignition engine or certified spark-ignition engine is required by ARB to be certified and meet the most stringent emissions standard in effect for the applicable horsepower range at the time the application for initial registration is submitted.

On-Road

on-road equipment	effective compliance date	requirement		
Idling	February 1, 2005	Measure to Limit Diesel-Fueled Co that diesel-fueled commercial moto	ection 2485, Airborne Toxic Control ommercial Motor Vehicle Idling, states or vehicles that operate in California with reater than 10,000 pounds may not idle e location.	
Emission Control Labels	February 15, 2007	diesel vehicles, and must be leg	es of all commercial heavy-duty gible as proof the engine, at missions standards for the engine	
Periodic Smoke Inspection	January 1, 2010		ts of two or more diesel vehicles are ke opacity tests and to keep records ehicle.	
Reporting	December 31, 2014	System (TRUCRS) is optional u	Jpload, Compliance and Reporting inless owners plan to take advantage uty diesel powered vehicles subject to	
Automatic Enforcement	January 1, 2020	Department of Motor Vehicles (I that does not meet the requirem Regulation.	DMV) will not register any vehicle nents of the Truck and Bus	
Emissions and Performance Requirements		Emissions of Diesel Particulate Criteria Pollutants, from In-Use states that vehicles that operate alternative diesel-fuel that are re highways, were originally designed trucks with on-road engine engines used for agricultural op	egistered to be driven on public ined to be driven on public highways, es or yard trucks with off-road erations, both engines of two-engine ave a GVWR greater than 14,000	
		All Light vehicles (GVWR 14,001-26,000 lbs) must be equipped with a 2010 model year emission equivalent engine pursuant to the following schedule:		
		January 1 compliance date	existing engine model year	
	January 1, 2015 - 2023	2015	1995 & older	
	(light vehicles - see	2016	1996	
	table to the right)	2017	1997	
		2018	1998	
		2019	1999	
		2020	2003 & older	
		2021	2004-2006	
		2023	All engines	

On-Road continued

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On-road equipment	effective compliance	requirement		
	date			
Emissions and Performance	January 1, 2012-2023 (heavy vehicles-see	Starting January 1, 20' in the fleet must meet I		(GVWR 26,001 or greater)
Requirements	table to right)	emissions equivalent e		
		ongine medal year	gine model year compliance date compliance	
		engine model year	install pm filter by	2010 engine by
		Pre-1994	N/A	January 1, 2015
		1994-1995	N/A	January 1, 2016
		1996-1999	January 1, 2012	January 1, 2020
		2000-2004	January 1, 2013	January 1, 2021
		2005 - 2006	January 1, 2014 January 1, 2014 if not	January 1, 2022
		2007 or newer	OEM equipped	January 1, 2023
				ad emission standards for adopted virtually identical
		heavy-duty highway er standards):		adopted virtually identical
		heavy-duty highway er standards): California emission	ngines (California ARB	adopted virtually identical
		heavy-duty highway er standards): California emission	ngines (California ARB	adopted virtually identical eavy duty trucks p-hr)
		heavy-duty highway er standards): California emission emissio	standards for new hoons standards (g/bhp	adopted virtually identical eavy duty trucks p-hr)
		heavy-duty highway er standards): California emission emissio	standards for new hoons standards (g/bhpheavy duty veh	adopted virtually identical eavy duty trucks -hr) icles
		heavy-duty highway er standards): California emission emission model year	standards for new hoons standards (g/bhpheavy duty veh	eavy duty trucks -hr) icles PM
		heavy-duty highway er standards): California emission emissio model year	standards for new hoons standards (g/bhpheavy duty vehoods) NOx 6 6	eavy duty trucks p-hr) icles PM 0.6
		heavy-duty highway er standards): California emission emissio model year 1998 1990	standards for new hoons standards (g/bhpheavy duty vehinox 6 6 5	eavy duty trucks -hr) icles PM 0.6
		heavy-duty highway er standards): California emission emissio model year 1998 1990 1991	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5	eavy duty trucks p-hr) icles PM 0.6 - 0.25
		heavy-duty highway er standards): California emission emissio model year 1998 1990 1991 1993	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5 5	eavy duty trucks -hr) icles PM 0.6 - 0.25
		heavy-duty highway er standards): California emission emissio model year 1998 1990 1991 1993 1994	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5 5 5	adopted virtually identical eavy duty trucks p-hr) icles PM 0.6 - 0.25 0.25 0.1
		heavy-duty highway er standards): California emission emissio model year 1998 1990 1991 1993 1994 1996	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5 5 4	eavy duty trucks -hr) icles PM 0.6 - 0.25 0.25 0.1
		heavy-duty highway er standards): California emission emissic model year 1998 1990 1991 1993 1994 1996 1998	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5 5 4 2.2	adopted virtually identical eavy duty trucks p-hr) icles PM 0.6 - 0.25 0.1 0.1 0.1
		heavy-duty highway er standards): California emission emission model year 1998 1990 1991 1993 1994 1996 1998 2002	standards for new hoons standards (g/bhpheavy duty vehing) NOx 6 6 5 5 5 4 2.2 2.2	adopted virtually identical eavy duty trucks p-hr) icles PM 0.6 - 0.25 0.1 0.1 0.1 0.1

2010





0.2