

Tier 0 and Tier 1 operating restrictions

Effective immediately, Tier 0 and Tier 1 engines cannot be operated within 100 metres of sensitive receptors (i.e. schools, hospitals, daycares).

New options for previously unregistered engines

Previously unregistered (prohibited) engines can register and operate if they pay a registration fee surcharge or install an approved emission reduction measure meeting at least Tier 2 emission standards.

Surcharges start:

- January 1, 2023 for previously unregistered Tier 0 and Tier 1 engines;
- February 1, 2026 for Tier 2 engines that have not been registered for at least 90 days prior to January 31, 2026; and
- February 1, 2027 for Tier 3 engines that have not been registered for at least 90 days prior to January 31, 2027.

What if I operate in Metro Vancouver without registering my non-road diesel powered machine?

Failure to comply with the regulation is an offence and may result in:

- tickets (\$1,000 max) or
- fines (\$200,000 max)



Why a non-road diesel emission regulation?

- Emissions of diesel soot are responsible for 67% of the lifetime cancer risk from air pollution in Metro Vancouver
- Reducing diesel emissions is one of the most important steps Metro Vancouver can take to improve air quality and public health in the region
- The regulation will promote the reduction of emissions from diesel powered machines that are often operated close to where people live, work, and play



What do I need to do?

- Step 1** Determine engine tier
- Step 2** Register applicable engines using the online registration system
- Step 3** Purchase operating period
- Step 4** Label machine

How do I get more information?

metrovancover.org/nonroaddiesel

604-451-6655

(Metro Vancouver Information Centre)

nonroaddiesel@metrovancover.org

Metro Vancouver

Metrotower III,
4515 Central Boulevard,
Burnaby, BC, V5H 0C6



Where is Metro Vancouver?

Metro Vancouver spans an area from Lions Bay and Bowen Island to Maple Ridge and the Township of Langley (Aldergrove), and includes the Tsawwassen First Nation.

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Metro Vancouver is a federation of 21 municipalities, one electoral area, and one treaty First Nation that collaboratively plans for and delivers regional-scale services. Its core services are drinking water, wastewater treatment and solid waste management. Metro Vancouver also regulates air quality, plans for urban growth, manages a regional parks system and provides affordable housing. The regional district is governed by a Board of Directors of elected officials from each local authority.

This brochure is provided for general information purposes only. For a complete list of requirements, please refer to Bylaw No. 1329, 2021. If there is any discrepancy between the information contained in this brochure and the Bylaw, the Bylaw shall prevail.

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Non-Road Diesel Engine Emission Regulation Guide

BYLAW NO. 1329, 2021





What is a non-road diesel engine?

Non-road diesel engines are engines used in construction, industrial, commercial or stationary machines not used or intended for transportation on public roads. Examples include:

- excavators
- backhoes
- forklifts
- skid steers
- tub grinders
- cranes
- generators
- compressors
- welders
- boom lifts
- graders

Does this regulation apply to you?

If you own, operate, or hire a non-road diesel in Metro Vancouver that is 25hp (19kW) or greater, this regulation applies to you. Land owners and developers are also responsible for sub-contractor's non-road diesel engines on their site.

Are there any exceptions?

The regulation does not apply to:

- Engines less than 25hp (19kW)
- Machines operated as part of Farming Operation (BC Right to Farm Act)
- Personal recreational machines (snow mobiles and ATVs)
- Emergency generators or other stationary machines operated only in the case of emergency (**Emergency engines don't require labeling or registration, but must be operated, inspected, and maintained to prevent impacts on nearby building occupants**)

What is an engine tier?

The "tier" level of a non-road diesel engine relates to both the age and amount of emissions it produces.

Tier 0 engines are older engines that do not have any emission controls. Tier 1 engines have slightly lower emissions through improved air and fuel delivery systems but do not use emission controls found on newer Tier 2, Tier 3, and Tier 4 engines.

What are the Registration Requirements?

In order to **operate** in Metro Vancouver, owners and operators of non-road diesel engines 25hp or greater must:

- Provide registration information
- Pay fees
- Label machines

Owners and operators of all non-road diesel engines must comply with:

- Emission opacity limits (20%)
- Idling restrictions (5 minutes)

When do I need to register my Non-Road Diesel Engine?

- Tier 0 engines effective January 1, 2012
- Tier 1 engines effective January 1, 2014
- Tier 2 engines effective January 1, 2023
- Tier 3 engines effective January 1, 2024
- Tier 4 engines effective January 1, 2029

What information is required for registration?

Engine:

- Serial number, year, maximum horsepower, manufacturer, model, and EPA family name

Machine:

- Type, manufacturer, model, and VIN

How do I register?

An online registration and payment system is available at: metrovancover.org/nonroaddiesel

Labels will be mailed to you after you complete the online engine registration.

How much are the fees and what are my registration options?

There are options to purchase daily, monthly, annual, annual low use (200 hours), and annual moderate use (500 hours) operating periods. Annual fees are based on the engine tier and horsepower as shown below.

Annual Fee Rate	BYLAW 1329 FEE SCHEDULE								
	2021	2022	2023	2024	2025	2026	2027	2028	2029 & later
Tier 0 \$/HP	20.00	20.00	20.00	33.79	39.42	45.05	50.69	56.32	57.44
Tier 1 \$/HP	10.00	10.00	10.00	12.56	14.65	16.74	18.83	20.92	21.35
Tier 2 \$/HP	0.00	0.00	1.55	2.45	4.71	5.38	8.44	9.38	9.57
Tier 3 \$/HP	0.00	0.00	0.00	1.65	3.22	3.68	5.80	6.44	6.57
Tier 4 \$/HP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94

Shaded areas indicate that additional surcharges will apply for not previously registered engines. Installing an approved Emission Reduction Measure can reduce fees

A rising fee structure is used to encourage engine upgrades or retirements.

A tier and fee calculator is available on the non-road diesel website:

www.metrovancover.org/nonroaddiesel

How do I reduce fees?

Fees can be reduced by reducing diesel soot (particulate matter) emissions using an approved Emission Reduction Measure (ERM). ERMs include diesel oxidation catalysts (DOC), diesel particulate filters (DPF), and biodiesel.

More information on ERMs and the approval process is available at:

www.metrovancover.org/nonroaddiesel

How do I recover fees?

80% of fees paid over the previous 3 years (5 years effective 2026) may be refunded if an engine is permanently retired from use in Metro Vancouver.

Use engine year and power to determine your engine tier

