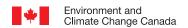
# Air Pollutant Emission Performance for the 2023 Model Year On-Road Vehicle Fleet







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## **Table of contents**

List of figures	i
List of tables	i
Executive summary	1
1. Purpose	2
2. The Regulations	2
3. Tier 3 reporting for the 2023 MY	4
3.1. Fleet average NMOG+NO <sub>x</sub> emission performance	7
3.1.1. Light-duty vehicles and light-duty trucks 1, 150k	8
3.1.2. Light-duty trucks 2, heavy light-duty trucks, and medium-duty passenger vehicles	10
3.1.3. Class 2B vehicles	12
3.1.4. Class 3 vehicles	13
3.1.5. NMOG+NO <sub>x</sub> averaging sets	13
3.1.6. Early action credits	14
3.1.7. Overall performance of Canadian fleets	14
3.2. Fleet average cold NMHC emission performance	15
3.2.1. Light-duty vehicles and light light-duty trucks	16
3.2.2. Heavy light-duty trucks and medium-duty passenger vehicles	16
3.3. Fleet average EVAP emission performance	17
3.3.1. Light-duty vehicles and light-duty trucks 1	18
3.3.2. Light-duty trucks 2	18
3.3.3. Heavy light-duty trucks and medium-duty passenger vehicles	19
3.3.4. Class 2B and Class 3 vehicles	20
3.3.5. Evaporative emission averaging sets	20
3.4. PM and EVAP phase-in performance	21
4. Conclusions	21

# List of figures

Figure 1: NOx fleet averages and standards for model years 2004 through 2016	3
Figure 2: NMOG+NO $_{ m x}$ Fleet averages and standards for the light-duty vehicle and light-duty truck 1 flee	et
and the light-duty truck 2, heavy light-duty trucks and medium-duty passenger vehicles fleet	14
Figure 3: NMOG+NO <sub>x</sub> Fleet averages and standards for the Class 2B fleet and the Class 3 fleet	
<u>List of tables</u>	
Table 1: light-duty vehicle, light light-duty truck, heavy light-duty truck and medium-duty passenger	
vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)	5
Table 2: Class 2B vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)	5
Table 3: Class 3 vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)	5
Table 4: overview of company reports (Tier 3)	6
Table 5: distribution of Tier 3 vehicles by NMOG+NO <sub>x</sub> standard of each bin	6
Table 6: declining fleet average Tier 3 federal test procedure emission standards for NMOG+NO <sub>x</sub>	
(grams/mile)	7
Table 7: declining fleet average Tier 3 supplemental federal test procedure emission standards for	
NMOG+NO <sub>x</sub> (grams/mile)	7
Table 8: declining fleet average federal test procedure emission standards for $NMOG+NO_x$ (grams/mile	e)8
Table 9: summary of company average NMOG+NO $_{\scriptscriptstyle X}$ federal test procedure values for the light-duty	
vehicle and light-duty truck 1, 150K fleet	
Table 10: summary of company average NMOG+NO $_{\!\scriptscriptstyle X}$ supplemental federal test procedure values for the	ne
light-duty vehicle and light-duty truck 1, 150K fleet	9
Table 11: summary of company average $NMOG+NO_x$ federal test procedure values for the light duty	
truck 2, heavy light-duty truck, and medium-duty passenger vehicle, 150K fleet	10
Table 12: summary of company average NMOG+NO $_{\!\scriptscriptstyle X}$ supplemental federal test procedure values for the	
light duty truck 2, heavy light-duty truck, and medium-duty passenger vehicle, 150K fleet	11
Table 13: summary of company average $NMOG+NO_x$ federal test procedure values for the Class 2B	
vehicle fleet	
Table 14: summary of company average $NMOG+NO_x$ federal test procedure values for the Class 3 vehi	
fleet	
Table 15: fleet average cold temperature NMHC exhaust emission standards	
Table 16: summary of company average cold NMHC values for the light-duty vehicle and light light-dut	•
truck fleet	
Table 17: summary of company average cold NMHC values for the heavy light-duty truck and medium	
duty passenger vehicle fleet	
Table 18: Tier 3 diurnal plus hot soak emission standards in grams per test	17
Table 19: summary of company average EVAP values for the light-duty vehicle and light duty truck 1	
fleet	
Table 20: summary of company average EVAP values for the light-duty truck 2 fleet	19
Table 21: summary of company average EVAP values for the heavy light-duty truck and medium-duty	40
passenger vehicle fleet	19 20
ranie 77: Summary ni company average EVAP values for the Class 78 and Class 3 Venicle fleet	711

#### **Executive summary**

The On-Road Vehicle and Engine Emission Regulations (hereinafter referred to as the "Regulations") establish national emission standards to limit smog-forming emissions (non-methane organic gases (NMOG), nitrous oxides (NO<sub>x</sub>), particulate matter (PM), cold non-methane hydrocarbons (NMHC), evaporative emissions (EVAP)) from new on-road vehicles and engines. The Tier 3 fleet average standards which came into place in July of 2015 continue to align with the progressively more stringent standards adopted by the U.S. Environmental Protection Agency (EPA) over the 2017 through 2025 model years (MYs) and beyond. These Regulations require importers and manufacturers of new vehicles to meet fleet average emission standards for air pollutants and establish annual compliance reporting requirements. The 2017 MY was the first MY in which companies are required to meet the new Tier 3 standards.

This report summarizes the fleet average air pollutant emission performance of the Canadian 2023 MY fleet of vehicles. A total of 25 companies submitted end of MY reports comprising a total of 1,666,211 vehicles manufactured in Canada or imported into Canada for the purpose of first retail sale. This report includes the fleet average NMOG+NO<sub>x</sub>, cold NMHC and EVAP values for each company as well as their number of emission credits or deficits. It also provides a comparison of the distribution of vehicles certified to the various emission bins and compares the overall NMOG+NO<sub>x</sub> performance with that of the pre-Tier 3 MYs.

The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY combined fleet of light-duty vehicles and light-duty trucks 1 is 0.0393637 grams/mile compared to the standards of 0.044 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY combined fleet of light-duty trucks 2, heavy-light duty trucks and medium-duty passenger vehicles is 0.047818505 grams/mile compared to the standard of 0.047 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY fleet of Class 2B vehicles is 0.16807 grams/mile compared to the standard of 0.178 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY fleet of Class 3 vehicles is 0.25533 grams/mile compared to the standard of 0.247 grams/mile.

The overall  $NMOG+NO_x$  fleet averages demonstrate continued industry improvements in emission performance since 2004. While the fleet average values for the light-duty trucks 2, heavy-light duty trucks and medium-duty passenger vehicles fleet and the Class 3 fleet are slightly above the applicable standards for the 2023 MY, companies have 3 years to offset any carryover deficits, and all currently remain in compliance with the fleet averaging provisions of the Regulations.

All companies have complied with the 2023 PM and EVAP standards and have met the cold NMHC fleet average standards.

All companies remain in compliance with the Regulations.

#### 1. Purpose

The purpose of this report is to summarize the fleet average air pollutant emission performance of individual companies and the overall Canadian fleet for the 2023 MY. It's based on data submitted by companies in their end of MY reports and any subsequent revisions received prior to the publication of this report. It also serves to report on the effectiveness of the Canadian fleet average air pollutant emission program in achieving the environmental performance objectives outlined in the Regulations.

#### 2. The Regulations

On January 1, 2004, the On-Road Vehicle and Engine Emission Regulations came into effect under the *Canadian Environmental Protection Act, 1999* (CEPA). These regulations introduced more stringent national emission standards for on-road vehicles and engines. The Regulations align Canada's emission standards for light-duty vehicles<sup>1</sup> (LDVs), light light-duty trucks<sup>2</sup> (LLDTs) composed of light-duty trucks 1 (LDT1) and light-duty trucks 2 (LDT2), heavy light-duty trucks<sup>3</sup> (HLDTs) composed of light-duty trucks 3 (LDT3) and light-duty trucks 4 (LDT4), medium-duty passenger vehicles<sup>4</sup> (MDPVs), as well as heavy-duty vehicles, heavy-duty engines and on-road motorcycles with those of the U.S. EPA through incorporation by reference to the U.S. Code of Federal Regulations (CFR).

From MY 2004 through MY 2016, companies were required to meet fleet average  $NO_x$  emission standards (Tier 1 and Tier 2 standards). Figure 1 shows the overall Canadian performance during those years.

<sup>&</sup>lt;sup>1</sup> Light-duty vehicles are generally passenger cars.

<sup>&</sup>lt;sup>2</sup> Light light-duty trucks are generally vans, sport utility vehicles and pick-up trucks having GVWR of 2,722 kg (6,000 pounds) or less. The exact definitions for LDT1 and LDT2 can be found in the Regulations.

<sup>&</sup>lt;sup>3</sup> Heavy light-duty trucks are generally vans, sport utility vehicles and pick-up trucks having a GVWR of more than 2,722 (6,000 pounds) and up to 3,856 kg (8,500 pounds).

<sup>&</sup>lt;sup>4</sup> Medium-duty passenger vehicles are generally heavier passenger-type vehicles, such as vans and sport utility vehicles having a gross vehicle weight rating (GVWR) greater than 3,856 kg (8,500 pounds) and less than 4,536 kg (10,000 pounds).

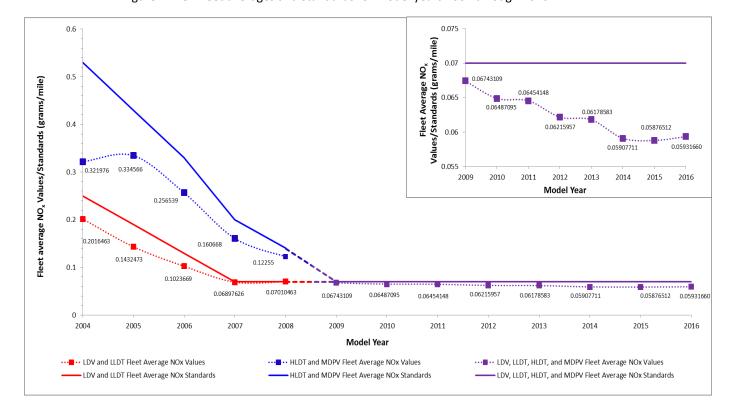


Figure 1: NOx fleet averages and standards for model years 2004 through 2016

The Regulations were subsequently amended in 2015 to set new progressively more stringent emission standards (Tier 3) for passenger cars, light-duty trucks and certain heavy-duty vehicles for 2017 and later MYs that are imported or manufactured in Canada. The amendments established vehicle and fleet average standards over the MYs 2017 to 2025 for combined emissions of NMOG and  $NO_x$  and established a phase-in schedule for more stringent PM and evaporative emission standards, in alignment with the U.S. EPA standards adopted in 2014.

A company's fleet of LDVs, light-duty trucks and MDPVs will have to comply with progressively more stringent exhaust emission standards, reaching a fleet average standard for emission of NMOG+NO $_x$  of 30 milligrams per mile as of MY 2025. Similarly, heavy-duty vehicle weight classes  $2B^5$  and  $3^6$  will be required to comply with progressively more stringent fleet average standards for emissions of NMOG+NO $_x$ , reaching fleet average standards of 178 milligrams/mile and 247 milligrams/mile, respectively, as of MY 2022.

Also, as of MY 2017, new PM exhaust emission standards were introduced by using a phase-in approach where an increasing percentage of vehicles in a company's fleet for each successive MY are required to comply with the standards, with full implementation commencing with MY 2021. The Regulations

<sup>&</sup>lt;sup>5</sup> Heavy-duty Class 2B vehicles are generally delivery vans and heavy-duty pick-up trucks having a GVWR of more than 3,856 kg (8,500 lb) but less than or equal to 4,536 kg (10,000 lb).

<sup>&</sup>lt;sup>6</sup> Heavy-duty Class 3 vehicles are generally delivery vans and heavy-duty pick-up trucks have a GVWR of more than 4,536 kg (10,000 lb) but less than or equal to 6,530 kg (14,000 lb).

provides for an alternative phase-in compliance approach for these standards which allows companies to conform to the standards by demonstrating that an equivalent number of vehicles conform to the new standards, when averaged over more than 1 MY included in the phase-in period. For vehicles with a gross vehicle weight rating (GVWR) up to 6,000 lb, the PM standard is 3 milligrams/mile. For vehicles with a GVWR above 6,000 lb and up to 14,000 lb, this standard is 3 milligrams/mile for the applicable light-duty trucks and MDPVs, and 8 milligrams/mile and 10 milligrams/mile for heavy-duty vehicle weight classes 2B and 3, respectively.

As of MY 2017, new EVAP standards were introduced by using a phase-in approach where an increasing percentage of a company's fleet of vehicles for each successive MY are required to comply with the standards, with full implementation commencing with MY 2022. The Regulations provides for an alternative phase-in compliance approach for these standards which allows companies to conform to the standards by demonstrating that an equivalent number of vehicles conform to the new standards, when averaged over more than 1 MY included in the phase-in period. For LDV and LDT1 vehicles, this standard is 0.3 grams per test. For LDT2 vehicles, this standard is 0.4 grams per test. For HLDTs, this standard is 0.5 grams per test and for heavy-duty vehicles (Class 2B and 3), this standard is 0.6 grams per test.

The <u>2015 amendments</u> also introduced new fleet average standards in Canada for cold temperature exhaust emissions of NMHCs. For fleets consisting of vehicles with a GVWR up to 6,000 lb, the cold temperature NMHC fleet average standard was fixed at 0.3 grams/mile, starting with the 2017 MY. For fleets consisting of vehicles with a GVWR above 6,000 lb and up to 10,000 lb, the cold temperate NMHC fleet average standard was fixed at 0.5 grams/mile, starting with the 2017 MY.

Flexibilities for vehicles sold concurrently in Canada and the United States are included for compliance with the fleet average emission standards as well as the phase-in emission standards. These flexibilities recognize that the emission performance of a company's fleet of vehicle models that are sold concurrently in the United States is effectively anchored by the U.S. regulatory program.

The Regulations require that all companies submit a compliance report to the Minister no later than May 1 after the end of each MY. The end of MY report must contain detailed information concerning the company's fleet(s) and/or groups of vehicles.

For more information regarding the Regulations, or more specifically, the calculation of fleet average values and emission credits or deficits, please refer to the Regulations, which can be found on the Environment and Climate Change Canada <u>CEPA Environmental Registry</u>.

### 3. Tier 3 reporting for the 2023 MY

Under the Tier 3 standards, companies certify a vehicle to a combined "NMOG+NO<sub>x</sub>" bin. These bins represent the Federal Test Procedure (FTP) standards that vehicles are certified against. For the 2023 MY, a company's fleet average NMOG+NO<sub>x</sub> FTP values are calculated over the following fleets:

1) a company's fleet that is composed of all of its LDVs and LDT 1 to which the applicable NMOG+NO $_{\rm x}$  standard applies for a useful life of 120,000 miles

- 2) a company's fleet that is composed of all of its LDVs and LDT1 to which the applicable NMOG+NO $_{\rm x}$  standard applies for a useful life of 150,000 miles
- 3) a company's fleet that is composed of all of its LDT2, HLDT and MDPVs
- 4) a company's fleet that is composed of all of its Class 2B vehicles
- 5) a company's fleet that is composed of all of its Class 3 vehicles

Table 1, table 2 and table 3 outlines the corresponding exhaust emission standards for the Tier 3 FTP bins.

Table 1: light-duty vehicle, light light-duty truck, heavy light-duty truck and medium-duty passenger vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)

Bin number	NMOG+NO <sub>x</sub>	СО	Formaldehyde	PM
160	0.160	4.2	0.004	0.003
125	0.125	2.1	0.004	0.003
110 <sup>1</sup>	0.110	2.1	0.004	0.003
85 <sup>1</sup>	0.085	2.1	0.004	0.003
70	0.070	1.7	0.004	0.003
50	0.050	1.7	0.004	0.003
30	0.030	1.0	0.004	0.003
20	0.020	1.0	0.004	0.003
0	0.000	0.0	0.000	0.000

<sup>1</sup> Transitional Bins to which vehicles may be certified to through MY 2019.

Table 2: Class 2B vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)

Bin number	NMOG+NO <sub>x</sub>	СО
395 <sup>1</sup>	0.395	6.4
340 <sup>1</sup>	0.340	6.4
250	0.250	6.4
200	0.200	4.2
170	0.170	4.2
150	0.150	3.2
0	0.000	0.0

<sup>1</sup> Transitional Bins to which vehicles may be certified to through MY 2021.

Table 3: Class 3 vehicle Tier 3 federal test procedure bin exhaust emission standards (grams/mile)

Bin number	NMOG+NO <sub>x</sub>	СО
630¹	0.630	7.3
570 <sup>1</sup>	0.570	7.3
400	0.400	7.3
270	0.270	4.2
230	0.230	4.2
200	0.200	3.7
0	0.000	0.0

<sup>1</sup> Transitional Bins to which vehicles may be certified to through MY 2021.

Table 4 presents the companies that submitted an end of MY report which contained vehicles that were certified to Tier 3 standards, including the vehicle makes and the number of Tier 3 certified test groups.

Table 4: overview of company reports (Tier 3)

Company	Makes	Number of test groups
Aston Martin Lagonda Ltd.	Aston Martin	3
BMW Group Canada	BMW, MINI, Rolls-Royce	25
FCA Canada Inc.	Chrysler, Dodge, Jeep, Fiat, Alfa Romeo, RAM	38
Ferrari North America, Inc.	Ferrari	6
Fisker Group Inc.	Fisker	1
Ford Motor Company of Canada, Ltd.	Ford, Lincoln	52
General Motors of Canada Company	Buick, Cadillac, Chevrolet, GMC	34
Honda Canada Inc.	Acura, Honda	24
Hyundai Auto Canada Corp.	Hyundai	42
Jaguar Land Rover Canada, ULC	Jaguar, Land Rover	11
Kia Canada Inc.	Kia	27
Maserati North America, Inc.	Maserati	5
Mazda Canada Inc.	Mazda	11
McLaren Automotive Ltd.	McLaren	3
Mercedes-Benz Canada Inc.	Mercedes, Smart	38
Mitsubishi Motor Sales of Canada	Mitsubishi	5
Morgan Canada Corp.	Morgan Olson	1
Nissan Canada Inc.	Infiniti, Nissan	26
Porsche Cars Canada, Ltd.	Porsche	15
Subaru Canada, Inc.	Subaru	7
Tesla Motors Canada Inc.	Tesla	8
Toyota Canada Inc.	Lexus, Scion, Toyota	37
VinFast Canada Inc.	VinFast	1
Volkswagen Group Canada	Audi, Bentley, Bugatti, Lamborghini, Volkswagen	35
Volvo Cars of Canada Corp.	Volvo	5

Table 5 summarizes the distribution of vehicles by the NMOG+NO $_{\scriptscriptstyle X}$  standard for each bin.

Table 5: distribution of Tier 3 vehicles by NMOG+NO $_{x}$  standard of each bin

Tier and bin number	NMOG+NO <sub>x</sub> standard (grams/mile)	Total number of vehicles in "bin"	Percentage of vehicles in "bin"
Tier 3 Bin 630	0.630	0	0.000
Tier 3 Bin 570	0.570	0	0.000
Tier 3 Bin 400	0.400	563	0.034
Tier 3 Bin 395	0.395	0	0.000
Tier 3 Bin 340	0.340	0	0.000
Tier 3 Bin 270	0.270	24,120	1.448
Tier 3 Bin 250	0.250	3,286	0.197
Tier 3 Bin 230	0.230	14,146	0.850

Tier 3 Bin 200	0.200	136	0.008
Tier 3 Bin 170	0.170	10,349	0.621
Tier 3 Bin 160	0.160	7,682	0.461
Tier 3 Bin 150	0.150	18,929	1.137
Tier 3 Bin 125	0.125	53,354	3.204
Tier 3 Bin 110 <sup>1</sup>	0.110	0	0.00
Tier 3 Bin 85 <sup>1</sup>	0.085	0	0.00
Tier 3 Bin 70	0.070	384,063	23.064
Tier 3 Bin 50	0.050	378,879	22.753
Tier 3 Bin 30	0.030	566,073	33.994
Tier 3 Bin 20	0.020	13,869	0.833
Tier 3 Bin 0	0.000	172,260	10.345
Total number of Tier 3 vehicles in 2023 MY fleet			1,666,211

<sup>1</sup> Transitional Bins

#### 3.1. Fleet average NMOG+NO<sub>x</sub> emission performance

This section describes the manufacturers NMOG+NO<sub>x</sub> fleet average performance.

Table 6 and table 7 both taken from section 86.1811-17 of the CFR, present the declining fleet average Tier 3 FTP and Supplemental Federal Test Procedure (SFTP) emission standards for NMOG+NO $_{\rm x}$  for LDVs, light-duty trucks, HLDTs and MDPVs from MY 2017 to MY 2025.

Table 6: declining fleet average Tier 3 federal test procedure emission standards for NMOG+NO<sub>x</sub> (grams/mile)

MY	LDV, LDT1 – 150 000 mile useful life <sup>1</sup>	LDV, LDT1 – 120 000 mile useful life <sup>1</sup>	LDT2, HLDT <sup>2</sup>
2017 <sup>3</sup>	0.086	0.073	0.101
2018	0.079	0.067	0.092
2019	0.072	0.061	0.083
2020	0.065	0.055	0.074
2021	0.058	0.049	0.065
2022	0.051	0.043	0.056
2023	0.044	0.037	0.047
2024	0.037	0.031	0.038
2025 and subsequent model years	0.030	0.026	0.030

<sup>1</sup> Vehicles certified to standards based on a useful life of 120,000 miles may comply based on the fleet-average standard specified for 150,000 mile useful life in certain circumstances as specified in <a href="mailto:paragraph">paragraph</a> (b)(8)(iii)(A) of this section.

3 HLDT and MDPV must meet the Tier 3 standards starting with MY 2018.

Table 7: declining fleet average Tier 3 supplemental federal test procedure emission standards for NMOG+NO<sub>x</sub> (grams/mile)

MY	NMOG+NO <sub>x</sub> (grams/mile)
2017 1	0.103

<sup>2</sup> MDPVs are subject to all the same emission standards and certification provisions that apply to LDT4.

2018	0.097
2019	0.090
2020	0.083
2021	0.077
2022	0.070
2023	0.063
2024	0.057
2025 and subsequent model years	0.050

<sup>1</sup> HLDT and MDPV must meet the Tier 3 standards starting with MY 2018.

Table 8, from section 86.1818-18 of the CFR, presents the declining fleet average Tier 3 FTP emission standards for NMOG+NO<sub>x</sub> for Class 2B and Class 3 vehicles from MY 2018 to MY 2022.

Table 8: declining fleet average federal test procedure emission standards for NMOG+NO<sub>x</sub> (grams/mile)

MY	Class 2B	Class 3
2016 ¹	0.333	0.548
2017 <sup>1</sup>	0.310	0.508
2018	0.278	0.451
2019	0.253	0.400
2020	0.228	0.349
2021	0.203	0.298
2022	0.178	0.247

<sup>1</sup> Fleet-average standards are shown for 2016 and 2017 for purposes of voluntary early compliance.

#### 3.1.1. Light-duty vehicles and light-duty trucks 1, 150k

Table 9 presents the summary of the company average NMOG+NO<sub>x</sub> FTP values for their LDV/LDT1 150k fleets.

Table 9: summary of company average NMOG+NO<sub>x</sub> federal test procedure values for the light-duty vehicle and light-duty truck 1, 150K fleet

Company	Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits <sup>7</sup>	Credit balance
Aston Martin Lagonda Ltd.	95	0.0908	0	0
BMW Group Canada	13,240	0.045532	-20	2,528
FCA Canada Inc.	9,307	0.1029	0	0
Ferrari North America, Inc.	345	0.0922	0	0
Fisker Group Inc.	66	0.000	3	3

-

<sup>&</sup>lt;sup>7</sup> Negative totals represent a deficit.

Ford Motor					
Company of	12,186	0.013007	378	-45	
Canada, Ltd.	·				
General Motors of	40 201	0.025987	870	664	
Canada Company	48,281	0.025987	870	004	
Honda Canada Inc.	40,363	0.031188	0	0	
Hyundai Auto	84,984	0.049616	0	0	
Canada Corp.	04,304	0.043010	0	0	
Jaguar Land Rover Canada, ULC	241	0.116	-17	88	
Kia Canada Inc.	75,111	0.059450	0	0	
Maserati North					
America, Inc.	18,899	0.039649	82	2,003	
Mazda Canada Inc.	12,186	0.013007	378	-45	
McLaren	111	0.0561	0	0	
Automotive Ltd.	111	0.0561	0	0	
Mercedes-Benz	11,891	0.039438	54	528	
Canada Inc.	11,091	0.039436	34	328	
Mitsubishi Motor	14,282	0.070000	0	0	
Sales of Canada					
Nissan Canada Inc.	52,483	0.041109	152	3,665	
Porsche Cars	3,196	0.06859	0	0	
Canada, Ltd.	3,230	0.0000		· ·	
Subaru Canada,	17,640	0.059821	0	0	
Inc.			-	-	
Tesla Motors	67,183	0.00000	2,956	10,690	
Canada Inc.		0.004046	,	·	
Toyota Canada Inc.	54,086	0.034216	529	3,478	
Volkswagen Group	27,171	0.050504	-177	5,501	
Canada	•			-	
Volvo Cars of	5,168	0.006293	195	357	
Canada Corp.					

Table 10 presents the summary of the company average NMOG+NO $_{\rm x}$  SFTP values for their LDV/LDT1 150k fleets.

Table 10: summary of company average  $NMOG+NO_x$  supplemental federal test procedure values for the light-duty vehicle and light-duty truck 1, 150K fleet

Company	Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin Lagonda Ltd.	95	0.0600	0	0
BMW Group Canada	13,240	0.053706	123	3,168
FCA Canada Inc.	9,307	0.09714	0	0

Ferrari North America, Inc.	345	0.0670	0	0
Fisker Group Inc.	66	0.000	4	0
Ford Motor		0.000		3
Company of	12,186	0.013330	605	2,895
Canada, Ltd.	·			·
General Motors of	40 201	0.036360	1 206	4.620
Canada Company	48,281	0.036360	1,286	4,630
Honda Canada Inc.	40,363	0.051670	0	0
Hyundai Auto Canada Corp.	84,984	0.050921	0	0
Jaguar Land Rover	244	0.004		
Canada, ULC	241	0.091	0	0
Kia Canada Inc.	75,111	0.059964	0	0
Maserati North	18,899	0.053548	179	5,455
America, Inc.	10,033	0.033346	179	3,433
Mazda Canada Inc.	12,186	0.013330	605	2,895
McLaren	111	0.0349	0	0
Automotive Ltd.		0.00.15	<u> </u>	- C
Mercedes-Benz	11,891	0.036818	311	2,622
Canada Inc.	,			,
Mitsubishi Motor	14,282	0.077597	0	0
Sales of Canada Nissan Canada Inc.	F2 492	0.052765	485	6 272
Porsche Cars	52,483	0.053765	465	6,273
Canada, Ltd.	3,196	0.06879	0	0
Subaru Canada,			_	_
Inc.	17,640	0.064281	0	0
Tesla Motors	67.102	0.00000	4 222	14.270
Canada Inc.	67,183	0.00000	4,233	14,370
Toyota Canada Inc.	54,086	0.049524	729	9,663
Volkswagen Group	27,171	0.062807	5	9,090
Canada	2,,1,1	3.332507		3,030
Volvo Cars of	5,168	0.008644	281	463
Canada Corp.	3,100		-	

# 3.1.2. Light-duty trucks 2, heavy light-duty trucks, and medium-duty passenger vehicles

Table 11 provides a summary of the company average NMOG+NO $_{\rm x}$  FTP values for their LDT2/HLDT/MDPV fleets.

Table 11: summary of company average NMOG+NO<sub>x</sub> federal test procedure values for the light-duty truck 2, heavy light-duty truck, and medium-duty passenger vehicle, 150K fleet

Company Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits	Credit balance
---	---	-----------------------	----------------

Aston Martin	124	0.0700	0	0
Lagonda Ltd.				
BMW Group	20,052	0.043576	69	-759
Canada	,	0.0545004		
FCA Canada Inc.	125,404	0.0517931	0	0
Ford Motor				
Company of	192,940	0.0467566	47	769
Canada, Ltd.				
General Motors of	163,755	0.0469548	7	-4,745
Canada Company				.,,, .,
Honda Canada Inc.	60,576	0.057830	0	0
Hyundai Auto	50,157	0.043864	0	0
Canada Corp.		0.0 1500 1	ŭ	
Jaguar Land Rover	10,445	0.042492	47	1,070
Canada, ULC				·
Kia Canada Inc.	19,470	0.061386	0	0
Mazda Canada Inc.	30,153	0.060133	-396	2,181
Mercedes-Benz	17,655	0.053187	-109	90
Canada Inc.	17,055	0.033187	-105	30
Mitsubishi Motor	17,020	0.039866	0	0
Sales of Canada	17,020	0.039800	U	U
Morgan Canada	902	0.125	-70	-73
Corp.	902	0.123	-70	-73
Nissan Canada Inc.	57,152	0.053606	-378	5,907
Porsche Cars	6,989	0.07490	0	0
Canada, Ltd.	0,363	0.07490	U	U
Subaru Canada,	23,139	0.035701	0	0
Inc.	25,159	0.055701	0	U
Toyota Canada Inc.	148,410	0.0440955	431	3,695
VinFast Canada Inc.	801	0.000	38	38
Volkswagen Group	63,393	0.04308	249	2,655
Canada	05,535	0.04306	249	2,033
Volvo Cars of	8,404	0.04019	57	626
Canada Corp.	0,404	0.04013	37	020

Table 12 provides a summary of the company average NMOG+NO $_{\rm x}$  SFTP values for their LDT2/HLDT/MDPV fleets.

Table 12: summary of company average NMOG+NO $_{x}$  supplemental federal test procedure values for the light duty truck 2, heavy light-duty truck, and medium-duty passenger vehicle, 150K fleet

Company	Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin Lagonda Ltd.	124	0.0600	0	0
BMW Group Canada	20,052	0.056186	137	459

FCA Canada Inc.	125,404	0.0499812	0	0
Ford Motor				
Company of	192,940	0.0598304	612	5,843
Canada, Ltd.				
General Motors of	163,755	0.0676478	-761	-5,134
Canada Company	103,733	0.0070478	-701	-5,154
Honda Canada Inc.	60,576	0.076635	0	0
Hyundai Auto	50,157	0.045874	0	0
Canada Corp.	30,137	0.043874	U	U
Jaguar Land Rover	10,445	0.105193	0	0
Canada, ULC	<u> </u>	0.103133	0	
Kia Canada Inc.	19,470	0.063987	0	0
Mazda Canada Inc.	30,153	0.073180	-307	3,571
Mercedes-Benz	17,655	0.053253	172	3,188
Canada Inc.	17,055	0.033233	1/2	3,100
Mitsubishi Motor	17,020	0.064799	0	0
Sales of Canada	17,020	0.004799	U	U
Morgan Canada	902	0.160	-88	-92
Corp.	J02	0.100	-00	-52
Nissan Canada Inc.	57,152	0.077146	-808	2,443
Porsche Cars	6,989	0.08178	0	0
Canada, Ltd.	0,383	0.08178	U	U
Subaru Canada,	23,139	0.048313	0	0
Inc.	23,139	0.048313	U	U
Toyota Canada Inc.	148,410	0.0517574	1,669	10,214
VinFast Canada Inc.	801	0.000	50	50
Volkswagen Group	63,393	0.05500	507	4,998
Canada	03,333	0.05500	307	4,330
Volvo Cars of	8,404	0.06255	4	95
Canada Corp.	0,404	0.00233	4	93

#### 3.1.3. Class 2B vehicles

Table 13 presents the summary of the company average NMOG+NO $_{x}$  FTP values for their Class 2B vehicle fleets.

Table 13: summary of company average NMOG+NO<sub>x</sub> federal test procedure values for the Class 2B vehicle fleet

Company	Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits	Credit balance
FCA Canada Inc.	10,627	0.17677	0	0
Ford Motor Company of Canada, Ltd.	27,333	0.14539	891	2,368
General Motors of Canada Company	11,630	0.21291	-406	-1,601

Mercedes-Benz	3 130	0.1700	25	176
Canada Inc.	5,139	0.1700	25	4/6

#### **3.1.4. Class 3 vehicles**

Table 14 presents the summary of the company average NMOG+NO<sub>x</sub> FTP values for their Class 3 fleets.

Table 14: summary of company average NMOG+NO<sub>x</sub> federal test procedure values for the Class 3 vehicle fleet

Company	Total number of vehicles in fleet	Fleet average NMOG+NO <sub>x</sub> value (grams/mile)	Total 2023 MY credits	Credit balance
FCA Canada Inc.	4,221	0.2868	0	0
Ford Motor Company of Canada, Ltd.	14,138	0.23248	205	-1,461
General Motors of Canada Company	19,732	0.26640	-383	1,881
Mercedes-Benz Canada Inc.	1,121	0.2300	19	419

Fleet average  $NMOG+NO_x$  values above the applicable  $NMOG+NO_x$  standards (that is, negative total MY credits) for a given fleet can be attributed to the following factors:

- 1. The company elects to exclude from mandatory compliance with the fleet average NMOG+NO<sub>x</sub> standard its group of U.S. certified vehicles that are sold in Canada and the U.S. This exclusion is allowed because the objective of the fleet averaging provisions is to achieve an overall Canadian vehicle fleet emission performance comparable to that of the U.S., while minimizing the regulatory burden on companies. An analysis conducted by Environment and Climate Change Canada indicated that, even under extreme scenarios, the variations between the Canadian and U.S. fleet averages are expected to be small.
- 2. The company made use of an interim provision allowing them to include their LDV/LDT1 120k mile useful life vehicles certified to bins greater than bin 70 in their LDV/LDT1 150k mile useful life fleet. This interim provision may be used through MY 2019. This allows their LDV/LDT1 120k vehicles to meet the less stringent standard of the LDV/LDT1 150k fleet.
- 3. The average  $NMOG+NO_x$  value is above the  $NMOG+NO_x$  standard for 1 of its fleets. A company can offset a deficit from 1 fleet with credits from another fleet within the same averaging set.
- 4. The average NMOG+NO<sub>x</sub> value is above the applicable standard. A company can offset a deficit in a subsequent MY.

#### 3.1.5. NMOG+NO<sub>x</sub> averaging sets

NMOG+NO<sub>x</sub> credits may be exchanged only within an averaging set, as follows:

- 1) LDV and LDT1 certified to standards based on a useful life of 120,000 miles and 10 years
- 2) LDV, LDT and MDPV certified to standards based on a useful life of 150,000 miles and 15 years
- 3) HDV (Class 2B and 3)

However, FTP and SFTP credits are not interchangeable.

#### 3.1.6. Early action credits

Early action credits were earned over the 2015-2016 MYs for a company's fleet of LDV/LDT1 vehicles and over the 2016-2017 MYs for a company's fleet of LDT2/HLDT/MDPV vehicles if the respective NMOG+NO $_{\rm x}$  fleet averages are below the 0.160 standard.

Early action credits were also earned over the 2016-2017 MYs for a company's fleet of Class 2B vehicles or fleet of Class 3 vehicles if the respective  $NMOG+NO_x$  fleet averages are below the applicable standards for the MY in question set out in Table 8.

#### 3.1.7. Overall performance of Canadian fleets

Figure 2 shows the overall Canadian NMOG+NO $_{\rm x}$  fleet averages from the 2015 to 2023 MY for the LDV/LDT1 and LDT2/HLDT/MDPV fleets.

Figure 2: NMOG+NO<sub>x</sub> fleet averages and standards for the light-duty vehicle and light-duty truck 1 fleet and the light-duty truck 2, heavy light-duty trucks and medium-duty passenger vehicles fleet

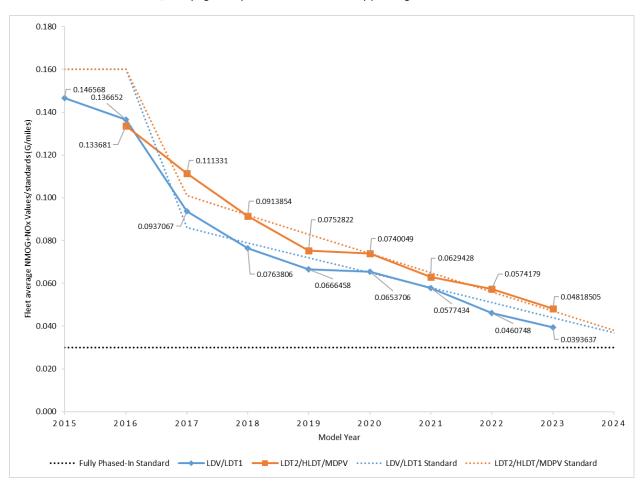


Figure 3 shows the overall Canadian NMOG+ $NO_x$  fleet averages from the 2018 to 2023 MY for the Class 2B and Class 3 fleets.

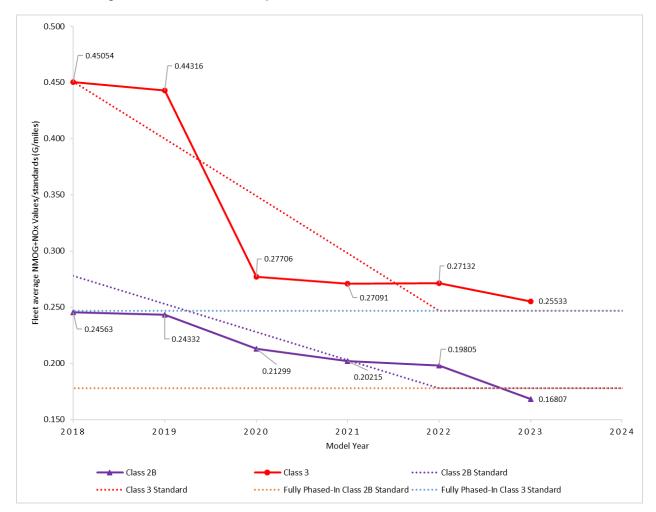


Figure 3: NMOG+NO<sub>x</sub> Fleet averages and standards for the Class 2B fleet and the Class 3 fleet

#### 3.2. Fleet average cold NMHC emission performance

This section describes the manufacturer's cold NMHC fleet average performance.

Table 15 presents the fleet average cold temperature NMHC exhaust emission standards.

Table 15: fleet average cold temperature NMHC exhaust emission standards

Vehicle weight category	Cold temperature NMHC sales- weighted fleet average standard (grams/mile)
LDV and LLDT	0.3
HLDT	0.5

#### 3.2.1. Light-duty vehicles and light light-duty trucks

Table 16 presents the summary of company average cold NMHC values for their LDV/LLDT fleets.

Table 16: summary of company average cold NMHC values for the light-duty vehicle and light light-duty truck fleet

Company	Total number of vehicles in Fleet	Fleet average cold NMHC value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin Lagonda Ltd.	95	0.3	0	0
BMW Group Canada	24,321	0.3	0	0
FCA Canada Inc.	39,440	0.4	0	0
Ferrari North America, Inc.	345	0.3	0	0
Ford Motor Company of Canada, Ltd.	62,941	0.3	0	0
General Motors of Canada Company	63,918	0.3	0	0
Honda Canada Inc.	95,934	0.3	0	0
Hyundai Auto Canada Corp.	118,337	0.3	0	0
Jaguar Land Rover Canada, ULC	3,627	0.3	0	0
Kia Canada Inc.	88,394	0.3	0	0
Mazda Canada Inc.	48,243	0.2	4,824	35,438
McLaren Automotive Ltd.	111	0.3	0	0
Mercedes-Benz Canada Inc.	18,230	0.2	1,823	8,711
Mitsubishi Motor Sales of Canada	22,678	0.3	0	0
Nissan Canada Inc.	91,931	0.3	0	0
Porsche Cars Canada, Ltd.	6,600	0.3	0	0
Subaru Canada, Inc.	37,829	0.3	0	0
Toyota Canada Inc.	172,025	0.3	0	0
Volkswagen Group Canada	66,394	0.3	0	0
Volvo Cars of Canada Corp.	6,896	0.3	0	0

#### 3.2.2. Heavy light-duty trucks and medium-duty passenger vehicles

Table 17 presents the summary of company average cold NMHC values for their HLDT/MDPV fleets.

Table 17: summary of company average cold NMHC values for the heavy light-duty truck and medium duty passenger vehicle fleet

Company	Total number of vehicles in fleet	Fleet average cold NMHC value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin Lagonda Ltd.	124	0.5	0	0
BMW Group Canada	4,436	0.5	0	4,486
FCA Canada Inc.	94,880	0.4	0	0
Ford Motor Company of Canada, Ltd.	122,459	0.4	12,246	86,904
General Motors of Canada Company	114,459	0.4	11,446	78,298
Honda Canada Inc.	5,005	0.3	0	0
Hyundai Auto Canada Corp.	923	0.3	185	2,65
Jaguar Land Rover Canada, ULC	7,013	0.5	0	3,398
Mercedes-Benz Canada Inc.	6,810	0.3	1,362	12,300
Mitsubishi Motor Sales of Canada	8,624	0.5	0	0
Morgan Canada Corp.	902	0.5	0	0
Nissan Canada Inc.	13,054	0.4	1,305	2,516
Porsche Cars Canada, Ltd.	2,945	0.3	0	0
Toyota Canada Inc.	23,929	0.4	2,393	8,223
Volkswagen Group Canada	11,780	0.4	1,178	8,217
Volvo Cars of Canada Corp.	2,204	0.3	441	1,896

#### 3.3. Fleet average EVAP emission performance

This section describes the manufacturers EVAP fleet average performance.

Table 18 presents the fleet average EVAP emission standards.

Table 18: Tier 3 diurnal plus hot soak emission standards in grams per test

Vehicle category	Low-altitude conditions – fleet average
LDV, LDT1	0.3
LDT2	0.4
HLDT	0.5
HDV	0.6

#### 3.3.1. Light-duty vehicles and light-duty trucks 1

Table 19 shows the summary of company average EVAP values for their LDV/LDT1 fleets.

Table 19: summary of company average EVAP values for the light-duty vehicle and light duty truck 1 fleet

Company	Total number of vehicles in fleet	Fleet average EVAP value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin	95	0.3	0	0
Lagonda Ltd.	33	0.0	<u> </u>	, and the second
BMW Group	10,497	0.3	0	0
Canada	0.007	0.0		
FCA Canada Inc.	9,307	0.3	0	0
Ferrari North	345	0.3	0	0
America, Inc.				
Ford Motor	4.00=			
Company of	1,967	0.3	0	0
Canada, Ltd.				
General Motors of	30,634	0.3	0	0
Canada Company	·			
Honda Canada Inc.	40,363	0.3	0	0
Hyundai Auto	69,103	0.3	0	0
Canada Corp.	00,200	0.0		
Jaguar Land Rover	241	0.3	0	0
Canada, ULC				
Kia Canada Inc.	68,924	0.3	0	0
Mazda Canada Inc.	18,090	0.3	0	0
McLaren	111	0.3	0	0
Automotive Ltd.	111	0.5	<u> </u>	U
Mercedes-Benz	8,454	0.3	0	0
Canada Inc.	0,434	0.5	U	U
Mitsubishi Motor	14,282	0.3	0	0
Sales of Canada	17,202		· ·	Ů
Nissan Canada Inc.	47,833	0.3	0	0
Porsche Cars	2,556	0.3	0	0
Canada, Ltd.	2,330	0.5	0	U
Subaru Canada,	17,640	0.3	0	0
Inc.		0.5	U	U
Toyota Canada Inc.	53,219	0.3	0	0
Volkswagen Group	26,874	0.3	0	0
Canada				
Volvo Cars of	696	0.3	0	0
Canada Corp.		0.5	U	U

#### 3.3.2. Light-duty trucks 2

Table 20 presents the summary of company average EVAP values for their LDT2 fleets.

Table 20: summary of company average EVAP values for the light-duty truck 2 fleet

Company	Total number of	Fleet average EVAP values for	Total 2023 MY	
	vehicles in fleet	value (grams/mile)	credits	Credit balance
BMW Group	13,824	0.3	1,382	3,827
Canada			1,302	3,027
FCA Canada Inc.	30,133	0.4	0	0
Ford Motor				
Company of	60,974	0.4	0	0
Canada, Ltd.				
General Motors of	33,284	0.4	0	0
Canada Company	33,204	0.4	0	Ů
Honda Canada Inc.	55,571	0.4	0	0
Hyundai Auto	49,234	0.4	0	0
Canada Corp.	45,254	0.4	0	Ü
Jaguar Land Rover	3,386	0.4	0	0
Canada, ULC	3,360	0.4		Ū
Kia Canada Inc.	19,470	0.4	0	0
Mazda Canada Inc.	30,153	0.3	3,015	15,735
Mercedes-Benz	9,776	0.3	978	5,025
Canada Inc.	9,770			
Mitsubishi Motor	8,396	96 0.4	0	0
Sales of Canada	0,330	0.4	0	U
Nissan Canada Inc.	44,098	0.4	0	0
Porsche Cars	4,044	0.4	0	0
Canada, Ltd.	4,044	0.4	U	U
Subaru Canada,	20,189	0.3	0	0
Inc.		0.5	0	U
Toyota Canada Inc.	118,806	0.4	0	0
Volkswagen Group	39,520	0.4	0	0
Canada		0.4	U	U
Volvo Cars of	6,200	0.4	0	0
Canada Corp.	0,200	0.7		

#### 3.3.3. Heavy light-duty trucks and medium-duty passenger vehicles

Table 21 presents the summary of company average EVAP values for their HLTD/MDPV fleets.

Table 21: summary of company average EVAP values for the heavy light-duty truck and medium-duty passenger vehicle fleet

Company	Total number of vehicles in fleet	Fleet average EVAP value (grams/mile)	Total 2023 MY credits	Credit balance
Aston Martin	124	0.5	0	0
Lagonda Ltd.	124	0.3	U	U
BMW Group	4.436	0.5	0	0
Canada	4,430	0.5	U	U
FCA Canada Inc.	94,880	0.5	0	0

Ford Motor		1		
Company of	122,459	0.5	0	0
Canada, Ltd.	122,433	0.5		
General Motors of				
Canada Company	114,459	0.5	0	0
Honda Canada Inc.	5,005	0.5	0	0
Hyundai Auto	·	0.5		
Canada Corp.	923	0.5	0	0
Jaguar Land Rover	7.013	0.5	0	0
Canada, ULC	7,013	0.5	0	0
Mercedes-Benz	6,810	0.5	0	0
Canada Inc.				
Mitsubishi Motor	8,624	8,624 0.5	0	0
Sales of Canada				
Morgan Canada	902	0.5	0	0
Corp.	J02	0.5	Ů	0
Nissan Canada Inc.	13,054	0.5	0	0
Porsche Cars	2,945	0.5	0	0
Canada, Ltd.	2,545	0.5	U	0
Toyota Canada Inc.	23,929	0.5	0	140
Volkswagen Group	11,780	0.4	1,178	3,970
Canada	11,700	0.4	1,170	3,370
Volvo Cars of	2,204	0.4	220	220
Canada Corp.	2,207	0.4	220	220

#### 3.3.4. Class 2B and Class 3 vehicles

Table 22 presents the summary of company average EVAP values for their Class 2B and Class 3 fleets.

Table 22: summary of company average EVAP values for the Class 2B and Class 3 vehicle fleet

Company	Total number of vehicles in fleet	Fleet average EVAP value (grams/mile)	Total 2023 MY credits	Credit balance
FCA Canada Inc.	7,525	0.6	0	0
Ford Motor Company of Canada, Ltd.	25,782	0.6	0	0
General Motors of Canada Company	15,393	0.6	0	0
Mercedes-Benz Canada Inc.	416	0.5	42	82

#### 3.3.5. Evaporative emission averaging sets

The following separate averaging sets apply for evaporative emission standards:

1) LDV and LDT1 together represent a single averaging set

- 2) LDT2 represents a single averaging set
- 3) HLDT and MDPV represents a single averaging set
- 4) HDV (Class 2B and 3) represents a single averaging set

Credits can be exchanged across averaging sets as follows if additional credits are needed to offset a deficit after the final year of maintaining deficit credits:

- 1) You may exchange LDV/LDT1 and LDT2 emission credits
- 2) You may exchange HLDT and HDV emission credits

#### 3.4. PM and EVAP phase-in performance

For the 2023 MY, 100% of a company's fleet of light-duty vehicles, light-duty trucks and medium-duty passenger vehicles and 100% of a company's fleet of Class 2B and Class 3 vehicles must meet the Tier 3 PM standards and 100% of a company's overall fleet must meet the Tier 3 EVAP standards. All companies met these requirements.

#### 4. Conclusions

The 2023 MY results represent the seventh reporting cycle under the new more stringent Tier 3 emission standards. All companies subject to reporting requirements submitted end of MY reports comprising a total of 1,666,211 vehicles manufactured in Canada or imported into Canada for the purpose of first retail sale.

The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY combined fleet of light-duty vehicles and light-duty trucks 1 is 0.0393637 grams/mile compared to the standards of 0.044 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY combined fleet of light-duty trucks 2, heavy-light duty trucks and medium-duty passenger vehicles is 0.047818505 grams/mile compared to the standard of 0.047 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY fleet of Class 2B vehicles is 0.16807 grams/mile compared to the standard of 0.178 grams/mile. The average NMOG+NO $_{\rm x}$  value for the Canadian 2023 MY fleet of Class 3 vehicles is 0.25533 grams/mile compared to the standard of 0.247 grams/mile.

The overall  $NMOG+NO_x$  fleet averages demonstrate continued industry improvements in emission performance since 2004. While the fleet average values for the light-duty trucks 2, heavy-light duty trucks and medium-duty passenger vehicles fleet and the Class 3 fleet are slightly above the applicable standards for the 2023 MY, companies have 3 years to offset any carryover deficits, and all currently remain in compliance with the fleet averaging provisions of the Regulations.

All companies have complied with the PM and EVAP standards and have met the cold NMHC fleet average standards.

All companies remain in compliance with the Regulations.