**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

KAGAWARAN NG KAPALIGIRAN AT LIKAS YAMAN

# DENR ADMINISTRATIVE ORDER No. 2025 -

**SUBJECT: IMPLEMENTATION OF EURO 5/V EMISSION LIMITS FOR LIGHT-DUTY AND HEAVY-DUTY VEHICLES**

Pursuant to Section 21, Article Four of the Republic Act No. 8749, otherwise known as the *Philippine Clean Air Act of 1999*, and in order to further address the air pollution in the country, the following vehicle types loaded with EURO 5/V fuel shall comply with the corresponding limits effective 01 January 2027:

# For New Vehicle Type:

1. Light-Duty Vehicles - Adopting UN Regulation No. 83-06:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reference mass (RM) (kg) | Mass of carbon monoxide (CO) | Mass of total hydrocarbon s (THC) | Mass of non- methane hydrocarbons (NMHC) | Mass of oxides of nitrogen (NOx) | Combined mass of hydrocarbons and oxides of nitrogen(THC + NOx) | Mass of particulate matter (PM) | Number of particles (P) |
| L1 (mg/km) | L2 (mg/km) | L3 (mg/km) | L4(mg/km) | L2+L3(mg/km) | L5 (mg/km) | L6 (mg/km) |
| Category | Class |  | PI | CI | PI | CI | PI | CI | PI | CI | PI | CI | PI(1) | CI | PI | CI |
| M | - | All | 1000 | 500 | 100 | - | 68 | - | 60 | 180 | - | 230 | 4,5 | 4,5 | - | 6,0x1011 |
| N1 | I | RM≤1305 | 1000 | 500 | 100 | - | 68 | - | 60 | 180 | - | 230 | 4,5 | 4,5 | - | 6,0x1011 |
|  | II | 1305 <RM ≤ 1760 | 1810 | 630 | 130 | - | 90 | - | 75 | 235 | - | 295 | 4,5 | 4,5 | - | 6,0x1011 |
|  | III | 1760 < RM | 2270 | 740 | 160 | - | 108 | - | 82 | 280 | - | 350 | 4,5 | 4,5 | - | 6,0x1011 |
| N2 | - | All | 2270 | 740 | 160 | - | 108 | - | 82 | 280 | - | 350 | 4,5 | 4,5 | - | 6,0x1011 |

Legend: PI = Positive Ignition

CI = Compression Ignition

* 1. Positive ignition particulate mass standard shall apply only to vehicles with direct injection engines.
1. Heavy-Duty Vehicles - Adopting UN Regulation No. 49-05:

 Limit Values – ESC and ELR tests

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mass of carbon monoxide(CO)g/kWh | Mass of hydrocarbons (HC)g/kWh | Mass of oxides of nitrogen (NOx)g/kWh | Mass of particulates(PT)g/kWh | Smokem-1 |
| 1.5 | 0.46 | 2.0 | 0.02 | 0.5 |

 Limit Values – ETC test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mass of carbon monoxide(CO)g/kWh | Mass of Non-methane hydrocarbons (NMHC)g/kWh | Mass of (CH4)g/kWh | Mass of oxides of nitrogen (NOx)g/kWh | Mass of particulates(PT)g/kWh |
| 4.0 | 0.55 | 1.1 | 2.0 | 0.03 |

# For In-use Vehicles:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Vehicle** | **Carbon Monoxide, CO (% by volume)****at idling** | **Hydrocarbons, HC (ppm)****at idling** | **Light Absorption Coefficient, k****(m-1)****At free acceleration** |
| In-use, rebuilt, and imported used passenger cars, light-duty, and heavy-duty vehicles | 0.077 (registered for the first time on or after December 31, 2026)0.25 (registered for the first time on or after July 1, 2017)0.5 (registered for the first time after December 31, 2007)3.5 (registered for the first time on or before December 31, 2007) | 49 (registered for the first time on or after December 31,2026)100 (registered for the first time on or after July 1, 2017250 (registered for the first time after December 31,2007)600 (registered for the first time on or before December 31, 2007) | 0.9 (registered for the first time on or after December 31,2026)1. (registered for the first time on or after July 1, 2017)
2. (registered for the first time after December 31,

2015)2.5 (registered for the first time on or before December 31, 2015) |

All new vehicles to be used or introduced into the Philippine market by 01 January 2027 shall be equipped with EURO 5/V engines and compliant with EURO 5/V limits/emission standards. By then, the EMB shall issue Certificates of Conformity (COC) for such vehicles only. COC applications for vehicles equipped with Euro 4/IV engines shall be accepted until 29 November 2026 and shall be valid only until 31 December 2028.

Further, pursuant to the authority provided to the Department under Section 26 and 34 of RA 8749, the Department of Energy shall ensure the availability of EURO 5/V fuels at retail levels nationwide, to comply with the above prescribed emission standards by 01 January 2026.

1. The comparative quality of Euro IV and Euro V fuel is provided as follows:

|  |  |  |
| --- | --- | --- |
| **Fuel Type** | **Euro IV Fuel** | **Euro V****Fuel** |
| 1. Diesel-Sulfur | 50 ppm | 10 ppm |
| 2. Gasoline-Sulfur-Benzene (% by volume, max)-Aromatics (% by volume, max) | 50 ppm135 | 10 ppm135 |

This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and upon acknowledgment of receipt of the copy thereof by the Office of the National Administrative Register (ONAR), UP Law Center.

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| **<<DENR SECRETARY>>** |
| Secretary |