Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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MAR 2 4 2015

DENR ADMINISTRATIVE ORDER
No. 2015- 04

Subject: **Implementation of Vehicle Emission Limits for Euro 4/IV, and In-Use Vehicle Emission Standards**

Pursuant to Article 4 Section 21 of Republic Act 8749, otherwise known as the "Philippine Clean Air Act of 1999" and in order to address the worsening air pollution in the country, the following types of vehicles loaded with EURO 4 fuel shall comply with the following corresponding emission limits/standards effective July 1, 2015:

<table>
<tr><th>TYPE OF VEHICLES</th><th colspan="8">EMISSION LIMITS/STANDARDS</th></tr>
<tr><td rowspan="6">a.1) New passenger vehicles, M and light duty, N1 with Euro 2 / Euro 3 engines</td><td colspan="2">Category/Class of Vehicle</td><td rowspan="2">Reference Mass RW (kg)</td><td colspan="2">CO (g/km)</td><td colspan="2">HC + NOx (g/km)</td><td colspan="2">Particulate (PM), (g/km)</td></tr>
<tr><td>Category</td><td>Class</td><td>Petrol</td><td>Diesel</td><td>Petrol</td><td>Diesel</td><td>Petrol</td><td>Diesel</td></tr>
<tr><td>M (1)</td><td>-</td><td>all</td><td>2.0</td><td>0.9</td><td>0.3</td><td>0.6</td><td>-</td><td>0.05</td></tr>
<tr><td>N1 (2)</td><td>I</td><td>RW≤1,250</td><td>2.0</td><td>0.9</td><td>0.3</td><td>0.6</td><td>-</td><td>0.05</td></tr>
<tr><td></td><td>II</td><td>1,250<RW≤ 1,700</td><td>3.0</td><td>1.2</td><td>0.4</td><td>0.8</td><td>-</td><td>0.10</td></tr>
<tr><td></td><td>III</td><td>1,700 < RW</td><td>4.0</td><td>1.4</td><td>0.5</td><td>1.0</td><td>-</td><td>0.15</td></tr>
<tr><td>a.2) New passenger vehicles, M and light duty, N1 with Euro 4 engines</td><td colspan="8">Euro 4</td></tr>
<tr><td rowspan="2">b.1) New heavy duty vehicles with Euro II / Euro III engines</td><td colspan="2">CO (g/kWh)</td><td>HC (g/kWh)</td><td colspan="2">NOx (g/kWh)</td><td colspan="2">PM (g/kWh)</td></tr>
<tr><td colspan="2">2.45</td><td>0.73</td><td colspan="2">6.9</td><td colspan="2">0.14</td></tr>
<tr><td>b.2) New heavy duty vehicles with Euro IV engines</td><td colspan="8">Euro IV</td></tr>
<tr><td rowspan="4">c.1) New motorcycles, tricycles and mopeds with Euro 2 engines</td><td colspan="2">Class (cc)</td><td>CO (g/km)</td><td colspan="2">HC (g/km)</td><td colspan="2">NOx (g/km)</td></tr>
<tr><td colspan="2"><150 cc. (L3)</td><td>4.5 (5.0)</td><td colspan="2">0.80 (1.1)</td><td colspan="2">0.20 (.29)</td></tr>
<tr><td colspan="2">≥150 cc.(L3)</td><td>4.5 (5.0)</td><td colspan="2">0.70 (.9)</td><td colspan="2">0.20 (.29)</td></tr>
<tr><td colspan="2">All (L4)</td><td>6.5</td><td colspan="2">1.0</td><td colspan="2">.39</td></tr>
<tr><td>c.2) New motorcycles, tricycles and mopeds with Euro 3 engines</td><td colspan="8">Euro 3</td></tr>
</table>

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	CO (% by vol.) At idling	HC (ppm) At idling	Light Absorption Coefficient, m^{-1} At free acceleration
d) In-use, rebuilt and imported used passenger cars light duty and heavy duty vehicles	- **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]*	- **100** *[registered for the first time on or after July 1, 2017]* - **250** *[registered for the first time after December 31, 2007]* - **600** *[registered for the first time on or before December 31, 2007]*	- **1.0** *[registered for the first time on or after July 1, 2017]* - **2.0** *[registered for the first time after December 31, 2015]* - **2.5** *[registered for the first time on or before December 31, 2015]*
f) In-use motorcycles, tricycles and mopeds	- **2.5** *[registered for the first time on or after July 1, 2017]* - **3.5** *[registered for the first time on or after January 1, 2012]* - **4.5** *[registered for the first time before January 1, 2012]*	- **1,000** *[registered for the first time on or after July 1, 2017]*	20% smoke opacity
		- **4,500** *[registered for the first time on or after January 1, 2012]*	30% smoke opacity
		- **6,000** *[registered for the first time before January 1, 2012]*	30% smoke opacity

All new vehicles to be used or introduced into the Philippine market by January 2016 shall be equipped with Euro 4/IV engine and compliant with Euro 4/IV limits/emission standards. By then, the EMB shall issue Certificates of Conformity (COC) for such vehicles only.

Further, pursuant to the authority provided to the Department under Section 34 of RA 8749, the Department of Energy is hereby enjoined to ensure the availability of Euro IV fuels to comply with the above prescribed emission standards by July 1, 2015.

The comparative quality of Euro IV fuel and Euro II fuel is provided as follows:

Fuel type	Euro IV fuel	Euro II fuel
1. Diesel - Sulfur	50 ppm	500 ppm
2. Gasoline -Sulfur - Benzene (% by volume, max.) - Aromatics (% by volume, max.)	50 ppm 1 35	500ppm 5 No limit

All Orders, Circulars and Instructions inconsistent herewith are hereby repealed or amended accordingly.

RAMON J.P. PAJE
Secretary

Recommending Approval:

ATTY. JONAS R. LEONES
DENR Undersecretary and
Concurrent EMB Director

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