

## Final Emission Limits for Light Vehicles ( $\leq 3.5$ tonnes GVM) under UN Regulation 83/.. at Euro 2 - 6 levels

		Reference mass (RW) (kg)	Limit Values (g/km)												
			Mass of carbon monoxide (CO)		Mass of hydrocarbons [Total and Non-methane] (THC) (NMHC) <sup>(3)</sup>		Mass of oxides of nitrogen (NO <sub>x</sub> )		Combined mass of total hydrocarbons and oxides of nitrogen (THC+NO <sub>x</sub> )		Mass of particulates (PM)		Number of Particles (#/km)		
Standard	Class		PI	CI	PI	CI	PI	CI	PI	CI	PI <sup>(4)</sup>	CI	PI <sup>(4)</sup>	CI	
<b>Euro 2</b>	M <sup>(1)</sup>	All	2.2	1.0	-	-	-	-	0.5	0.7	-	0.08	-	-	
	N <sub>1</sub> <sup>(2)</sup>	I	RW $\leq$ 1250	2.2	1.0	-	-	-	-	0.5	0.7	-	0.08	-	-
		II	1250 < RW $\leq$ 1700	4.0	1.25	-	-	-	-	0.6	1.0	-	0.12	-	-
		III	1700 < RW	5.0	1.5	-	-	-	-	0.7	1.2	-	0.17	-	-
<b>Euro 3</b>	M <sup>(1)</sup>	All	2.3	0.64	0.20	-	0.15	0.50	-	0.56	-	0.05	-	-	
	N <sub>1</sub> <sup>(2)</sup>	I	RW $\leq$ 1305	2.3	0.64	0.20	-	0.15	0.50	-	0.56	-	0.05	-	-
		II	1305 < RW $\leq$ 1760	4.17	0.80	0.25	-	0.18	0.65	-	0.72	-	0.07	-	-
		III	1760 < RW	5.22	0.95	0.29	-	0.21	0.78	-	0.86	-	0.10	-	-
<b>Euro 4</b>	M <sup>(1)</sup>	All	1.0	0.50	0.10	-	0.08	0.25	-	0.30	-	0.025	-	-	
	N <sub>1</sub> <sup>(2)</sup>	I	RW $\leq$ 1305	1.0	0.50	0.10	-	0.08	0.25	-	0.30	-	0.025	-	-
		II	1305 < RW $\leq$ 1760	1.81	0.63	0.13	-	0.10	0.33	-	0.39	-	0.04	-	-
		III	1760 < RW	2.27	0.74	0.16	-	0.11	0.39	-	0.46	-	0.06	-	-
<b>Euro 5</b>	M	All	1.0	0.50	0.10 (0.068)	-	0.06	0.18	-	0.23	0.0045	0.0045	-	6x10 <sup>11</sup>	
	N <sub>1</sub>	I	RW $\leq$ 1305	1.0	0.50	0.10 (0.068)	-	0.06	0.18	-	0.23	0.0045	0.0045	-	6x10 <sup>11</sup>
		II	1305 < RW $\leq$ 1760	1.81	0.63	0.13 (0.09)	-	0.075	0.235	-	0.295	0.0045	0.0045	-	6x10 <sup>11</sup>
		III	1760 < RW	2.27	0.74	0.16 (0.108)	-	0.082	0.28	-	0.35	0.0045	0.0045	-	6x10 <sup>11</sup>

Notes:

PI – Positive Ignition (Petrol and LPG), CI – Compression Ignition (Diesel)

(1) Except Category M vehicles of which the maximum mass exceeds 2,500 kg. For ADR79/00 (Euro 2) only, category M vehicles with more than 6 seats are also covered by the N category

(2) And those Category M vehicles which are specified in note (2)

(3) Separate NMHC limits only apply from Euro 5 onwards

(4) Direct injection petrol vehicles only

Standard	Class		Reference mass (RW) (kg)	Limit Values (g/km)											
				Mass of carbon monoxide (CO)		Mass of hydrocarbons [Total and Non-methane] (THC) (NMHC) <sup>(3)</sup>		Mass of oxides of nitrogen (NOx)		Combined mass of total hydrocarbons and oxides of nitrogen (THC+NOx)		Mass of particulates (PM)		Number of Particles (#/km)	
				PI	CI	PI	CI	PI	CI	PI	CI	PI <sup>(4)</sup>	CI	PI <sup>(4)</sup>	CI
<b>Euro 6</b>	<b>M</b>		All	1.0	0.50	0.10 (0.068)	-	0.06	0.08	-	0.17	0.0045	0.0045	6x10 <sup>11</sup>	6x10 <sup>11</sup>
	<b>N<sub>I</sub></b>	<b>I</b>	RW ≤ 1305	1.0	0.50	0.10 (0.068)	-	0.06	0.08	-	0.17	0.0045	0.0045	6x10 <sup>11</sup>	6x10 <sup>11</sup>
		<b>II</b>	1305 < RW ≤ 1760	1.81	0.63	0.13 (0.09)	-	0.075	0.105	-	0.195	0.0045	0.0045	6x10 <sup>11</sup>	6x10 <sup>11</sup>
		<b>III</b>	1760 < RW	2.27	0.74	0.16 (0.108)	-	0.082	0.125	-	0.215	0.0045	0.0045	6x10 <sup>11</sup>	6x10 <sup>11</sup>

Notes:

PI – Positive Ignition (Petrol and LPG), CI – Compression Ignition (Diesel)

(1) Except Category M vehicles of which the maximum mass exceeds 2,500 kg. For ADR79/00 (Euro 2) only, category M vehicles with more than 6 seats are also covered by the N category

(2) And those Category M vehicles which are specified in note (2)

(3) Separate NMHC limits only apply from Euro 5 onwards

(4) Direct injection petrol vehicles only

## **Timetable for adoption of UN Regulation 83/.. standards in ADR79/..#:**

### *Light Petrol and LPG Vehicles*

Euro 2 adopted in ADR79/00 from 1/1/03 to 1/1/04

Euro 3 adopted in ADR79/01 from 1/1/05 to 1/1/06

Euro 4 adopted in ADR79/02 from 1/7/08 to 1/7/10

Euro 5 adopted in ADR79/03 (Core Euro 5)<sup>1</sup> from 1/11/13 and ADR79/04 (Full Euro 5) from 1/11/16

### *Light Diesel Vehicles*

Euro 2 adopted in ADR79/00 from 1/1/02 to 1/1/03

Euro 3 never formally adopted

Euro 4 adopted in ADR79/01<sup>2</sup> from 1/1/06 to 1/1/07

Euro 5 adopted in ADR79/03 (Core Euro 5) from 1/11/13 and ADR79/04 (Full Euro 5) from 1/11/16

The Australian Government is currently considering the case for adopting Euro 6 through the Ministerial Forum on Vehicle Emissions. For further information, please visit <https://infrastructure.gov.au/roads/environment/forum/index.aspx>.

# in each case, the first date applies to vehicle models first produced on or after that date, with all new vehicles required to comply by the second date.

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<sup>1</sup> The "core" Euro 5 requirements which apply in ADR79/03 require compliance with all the technical requirements of UN Regulation 83/06 except that ADR79/03:

- allows the provision of PM mass emissions data based on the previous UN R83/05 (Annex 4) Type I test procedure (with a PM mass emissions limit of 0.005g/km) in lieu of data collected under the revised test procedure (Annex 4a of UN R83/06) which specifies a limit of 0.0045g/km);
- accepts a relaxed OBD threshold limit (80mg/km) for PM mass for M and N category vehicles of reference mass >1760kg;
- does not require compliance with the PM number limit specified for diesel vehicles in UN R83/06;
- does not require compliance with the In Use Performance Ratio for OBD systems in UN R83/06;
- does not require the NOx monitoring for petrol vehicles specified in UN R83/06; and
- only requires flex fuel vehicles to meet the Type VI test when tested on petrol.

<sup>2</sup> Euro 4 was first adopted for light diesel vehicles in ADR79/01, but was effectively replaced by ADR79/02 from 1/7/08.