

Status: Point in time view as at 31/01/2020.

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ANNEX I

EMISSION LIMITS

[^{F1}TABLE 1

Euro 5 Emission Limits

Category		Reference limit values													
		Mass of carbon monoxide (CO)		Mass of total hydrocarbons (THC)		Mass of non-hydrocarbons (NMHC)		Mass of oxides of nitrogen (NO _x)		Combined mass of hydrocarbons and oxides of nitrogen (THC + NO _x)		Mass of particulate matter (PM)		Number of particles (PN)	
		L ₁ (mg/km)	L ₂ (mg/km)	L ₃ (mg/km)	L ₄ (mg/km)	L ₂ + L ₄ (mg/km)	L ₅ (mg/km)	L ₆ (#/km)							
Class	PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	
M	—	All	1 000	500	100	—	68	—	60	180	—	230	5,0/4,5	5,0/4,5	6,0 × 10 ¹¹
N ₁	I	RM ≤ 1 305	1 000	500	100	—	68	—	60	180	—	230	5,0/4,5	5,0/4,5	6,0 × 10 ¹¹
	II	1 305 < RM ≤ 1 760	1 810	630	130	—	90	—	75	235	—	295	5,0/4,5	5,0/4,5	6,0 × 10 ¹¹
	III	1 760 < RM	2 270	740	160	—	108	—	82	280	—	350	5,0/4,5	5,0/4,5	6,0 × 10 ¹¹
N ₂	—	All	2 270	740	160	—	108	—	82	280	—	350	5,0/4,5	5,0/4,5	6,0 × 10 ¹¹

a [^{F2}

b [^{F2}]

c Positive ignition particulate mass standards shall apply only to vehicles with direct injection engines.

Key: PI = Positive Ignition, CI = Compression Ignition]

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- F1** Substituted by Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing and amending Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information (Text with EEA relevance).
- F2** Deleted by Commission Regulation (EU) No 566/2011 of 8 June 2011 amending Regulation (EC) No 715/2007 of the European Parliament and of the Council and Commission Regulation (EC) No 692/2008 as regards access to vehicle repair and maintenance information (Text with EEA relevance).
- F3** Substituted by Commission Regulation (EU) No 459/2012 of 29 May 2012 amending Regulation (EC) No 715/2007 of the European Parliament and of the Council and Commission Regulation (EC) No 692/2008 as regards emissions from light passenger and commercial vehicles (Euro 6) (Text with EEA relevance).

F3 TABLE 2**Euro 6 Emission Limits**

Category	Class	Reference limit values															
		Reference mass (kg)		Mass of carbon monoxide (CO)		Mass of total hydrocarbons (THC)		Mass of non-hydrocarbons (NMHC)		Mass of oxides of nitrogen (NO _x)		Combined mass of hydrocarbons and oxides of nitrogen (THC + NO _x)		Mass of particulate matter (PM) ^a		Number of particles (PN)	
		L ₁ (mg/km)	L ₂ (mg/km)	L ₂ (mg/km)	L ₃ (mg/km)	L ₃ (mg/km)	L ₄ (mg/km)	L ₄ (mg/km)	L ₂ + L ₄ (mg/km)	L ₂ + L ₄ (mg/km)	L ₅ (mg/km)	L ₅ (mg/km)	L ₆ (#/km)	L ₆ (#/km)			
PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI ^b	CI	PI ^{bc}	CI				
M	—	All	1 000	500	100	—	68	—	60	80	—	170	4,5	4,5	6,0 × 10 ¹¹	6,0 × 10 ¹¹	
N ₁	I	RM ≤ 1 305	1 000	500	100	—	68	—	60	80	—	170	4,5	4,5	6,0 × 10 ¹¹	6,0 × 10 ¹¹	
	II	1 305 < RM	1 810	630	130	—	90	—	75	105	—	195	4,5	4,5	6,0 × 10 ¹¹	6,0 × 10 ¹¹	

a A limit of 5,0 mg/km for the mass of particulate emissions applies to vehicles type approved to the emission limits of this table with the previous particulate mass measurement protocol, before 1.9.2011.

b Positive ignition particulate mass and number limits shall apply only to vehicles with direct injection engines.

c Until three years after the dates specified in Article 10(4) and (5) for new type approvals and new vehicles respectively, a particle number emission limit of 6,0 × 10¹² #/km shall apply to Euro 6 PI direct injection vehicles upon the choice of the manufacturer. Until those dates at the latest a type approval test method ensuring the effective limitation of the number of particles emitted by vehicles under real driving conditions shall be implemented.

Key: PI = Positive Ignition, CI = Compression Ignition]

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		≤ 1 760														
	III	1 760 < RM	2 270	740	160	—	108	—	82	125	—	215	4,5	4,5	6,0 × 10^{11}	6,0 × 10^{11}
N ₂	—	All	2 270	740	160	—	108	—	82	125	—	215	4,5	4,5	6,0 × 10^{11}	6,0 × 10^{11}

a A limit of 5,0 mg/km for the mass of particulate emissions applies to vehicles type approved to the emission limits of this table with the previous particulate mass measurement protocol, before 1.9.2011.

b Positive ignition particulate mass and number limits shall apply only to vehicles with direct injection engines.

c Until three years after the dates specified in Article 10(4) and (5) for new type approvals and new vehicles respectively, a particle number emission limit of $6,0 \times 10^{12}$ #/km shall apply to Euro 6 PI direct injection vehicles upon the choice of the manufacturer. Until those dates at the latest a type approval test method ensuring the effective limitation of the number of particles emitted by vehicles under real driving conditions shall be implemented.

Key: PI = Positive Ignition, CI = Compression Ignition]

TABLE 3

Emission limit for the evaporative emissions test

Mass of Evaporative Emission (g/test)

2,0

TABLE 4

Emission limit for the carbon monoxide and hydrocarbon tailpipe emissions after a cold start test

Test temperature 266 K (−7 °C)

Vehicle Category	Class	Mass of carbon monoxide (CO)L ₁ (g/km)	Mass of hydrocarbons (HC)L ₂ (g/km)
M	—	15	1,8
N ₁	I	15	1,8
	II	24	2,7
	III	30	3,2
N ₂		30	3,2

ANNEX II

Amendments to Directive 70/156/EEC

Directive 70/156/EEC is hereby amended as follows:

- in Article 2 the following sentence shall be added after the last indent:

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If reference is made in this Directive to a separate Directive or Regulation it shall also include their implementing acts.;

2. the words ‘or Regulation’ shall be added after the words ‘separate Directive’ in the following provisions:

Article 2, first indent; Article 2, ninth indent; Article 2, tenth indent; Article 2, fourteenth indent; Article 3(1); Article 3(4); Article 4(1)(c); Article 4(1)(d); Article 5(5); Article 6(3); Article 7(2); Article 13(4); Article 13(5); Annex I, first subparagraph; Annex III, Part III; Annex IV, Part II, first paragraph; Annex V Section 1(a); Annex V Section 1(b); Annex V Section 1(c); Annex VI, Side 2 of EC vehicle type-approval certificate; Annex VII(1), Section 4; Annex VII, footnote (1); Annex X, Section 2.1; Annex X, Section 3.3; Annex XI, Appendix 4, Meaning of letters: X; Annex XII, Section B(2); Annex XIV, Section 2(a); Annex XIV, Section 2(c); Annex XIV, Section 2(d);

3. the words ‘or Regulations’ shall be added after the words ‘separate Directives’ in the following provisions:

Article 2, eight indent; Article 3(1); Article 3(2); Article 4(1)(a) first and second indents; Article 4(1)(b); Article 4(3); Article 5(4) third subparagraph; Article 5(6); Article 8(2); Article 8(2)(c); Article 9(2); Article 10(2); Article 11(1); Article 13(2); Article 14(1)(i); List of Annexes: title of Annex XIII; Annex I, first subparagraph; Annex IV, Part I, first and second lines; Annex IV, Part II, footnote (1) to the table; Annex V Section 1(b); Annex V Section 3; Annex V Section 3(a); Annex V Section 3(b); Annex VI, points 1 and 2; Annex VI, Side 2 of EC vehicle type-approval certificate; Annex X, Section 2.2; Annex X, Section 2.3.5; Annex X, Section 3.5; Annex XII, title; Annex XIV, Section 1.1; Annex XIV, Section 2(c);

4. the words ‘or Regulation’ shall be added after the word ‘Directive’ in the following provisions:

Article 5(3) third subparagraph; Annex IV, Part I, footnote X to the table; Annex VI, Side 2 of EC vehicle type-approval certificate the heading of the tables; Annex VII(1) Section 2; Annex VII(1) Section 3; Annex VII(1) Section 4; Annex VIII, Sections 1, 2, 2.1, 2.2, and 3; Annex IX, Side 2 for complete or completed vehicles of category M₁ points 45, 46.1 and 46.2; Annex IX, Side 2 for complete or completed vehicles of categories M₂ and M₃ points 45 and 46.1; Annex IX, Side 2 for complete or completed vehicles of categories N₁, N₂ and N₃ points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of category M₁ points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of categories M₂ and M₃ points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of categories N₁, N₂ and N₃ points 45 and 46.1; Annex X, footnote 2; Annex X Section 1.2.2; Annex XI, Appendix 4, Meaning of letters: N/A; Annex XV, the heading of the table;

The words ‘or Regulations’ shall be added after the word ‘Directives’ in the following provisions:

Annex IX, Side 2 for complete or completed vehicles of category M₁; Annex IX, Side 2 for complete or completed vehicles of categories M₂ and M₃; Annex IX, Side 2 for complete or completed vehicles of categories N₁, N₂ and N₃; Annex IX, Side 2 for incomplete vehicles of category M₁; Annex IX, Side 2 for incomplete vehicles of categories M₂ and M₃; Annex IX, Side 2 for incomplete vehicles of categories N₁, N₂ and N₃; Annex XV;

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5. in Article 8(2)(c) the words ‘or Regulation(s)’ shall be added after the word ‘Directive(s)’;
6. in Annex IV, part I, the heading of the table and point 2 shall be replaced by the following:

Subject	Directive/ Regulation number	Official reference	Applicability											
			M ₁	M ₂	M ₃	N ₁	N ₂	N ₃	O ₁	O ₂	O ₃	O ₄		
2. Emissions/ Access to information	.../ EC (EC) No .../ ...	L ..., p. ...	X ^a	X ^a		X ^a	X ^a							
<p>a For vehicles with a reference mass not exceeding 2 610 kg. At the manufacturer's request may apply to vehicles with a reference mass not exceeding 2 840 kg.;</p>														

7. in Annex IV, part I, points 11 and 39 shall be deleted;
8. in Annex VII(4) the words ‘or Regulation’ shall be added after the words ‘in the case of a Directive’;
9. in Annex VII(5) the words ‘or Regulation’ shall be added after the words ‘the latest Directive’;
10. in Annex XI, Appendix 1, the heading of the table and point 2 shall be replaced by the following:

Item	Subject	Directive/ Regulation number	M ₁ ≤ 2 500 ⁽¹⁾ kg	M ₁ > 2 500 ⁽¹⁾ kg	M ₂	M ₃
2	Emissions/ Access to information	.../.../EC (EC) No .../...	Q	G + Q	G + Q	

11. in Annex XI, Appendix 1, points 11 and 39 shall be deleted;
12. in Annex XI, Appendix 2, the heading of the table and point 2 shall be replaced by the following:

Item	Subject	Directive/ Regulation number	M ₁	M ₂	M ₃	N ₁	N ₂	N ₃	O ₁	O ₂	O ₃	O ₄
2	Emissions/ Access to information	.../ EC (EC) No .../ ...	A	A		A	A					

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13. in Annex XI, Appendix 2, points 11 and 39 shall be deleted;
14. in Annex XI, Appendix 3, the heading of the table and point 2 shall be replaced by the following:

Item	Subject	Directive/ Regulation number	M ₃	N ₁	N ₂	N ₃	O ₁	O ₂	O ₃	O ₄
2	Emissions/ Access.../ to EC information (EC) No .../ ...	Q		Q	Q					

15. in Annex XI, Appendix 3, point 11 shall be deleted;
16. in Annex XI, Appendix 4, the heading of the table and point 2 shall be replaced by the following:

Item	Subject	Directive/ Regulation number	Mobile crane of category N
2	Emissions/Access to information	.../.../EC (EC) No .../...	N/A

17. in Annex XI, Appendix 4, point 11 shall be deleted.

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