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ANNEX I

EMISSION LIMITS

[<sup>F1</sup>TABLE 1

Euro 5 Emission Limits

Category		Class		Reference limit values													
				Mass of carbon monoxide (CO) (g/km)		Mass of total hydrocarbons (THC) (g/km)		Mass of non-hydrocarbons (NMHC) (g/km)		Mass of oxides of nitrogen (NO <sub>x</sub> ) (g/km)		Combined mass of hydrocarbons and oxides of nitrogen (THC + NO <sub>x</sub> ) (g/km)		Mass of particulate matter (PM) (g/km)		[ <sup>F3</sup> Number of particles (PN)] (10 <sup>11</sup> /km)	
				L <sub>1</sub> (mg/km)		L <sub>2</sub> (mg/km)		L <sub>3</sub> (mg/km)		L <sub>4</sub> (mg/km)		L <sub>2</sub> +L <sub>4</sub> (mg/km)		L <sub>5</sub> (mg/km)		L <sub>6</sub> (#/km)	
				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 <sup>11</sup>
N <sub>1</sub>	I	RM ≤ 1 305		1 000	500	100	—	68	—	60	180	—	230	5,0/4,5	5,0/4,5	—	6,0 × 10 <sup>11</sup>
	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 <sup>11</sup>
	III	1 760 < RM		2 270	740	160	—	108	—	82	280	—	350	5,0/4,5	5,0/4,5	—	6,0 × 10 <sup>11</sup>
N <sub>2</sub>	—	All		2 270	740	160	—	108	—	82	280	—	350	5,0/4,5	5,0/4,5	—	6,0 × 10 <sup>11</sup>

a [<sup>F2</sup>

b [<sup>F2</sup>]

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 <sub>x</sub> )		Combined mass of hydrocarbons and oxides of nitrogen (THC + NO <sub>x</sub> )		Mass of particulate matter (PM) <sup>a</sup>		Number of particles (PN)	
		L <sub>1</sub> (mg/km)	L <sub>2</sub> (mg/km)	L <sub>2</sub> (mg/km)	L <sub>3</sub> (mg/km)	L <sub>3</sub> (mg/km)	L <sub>4</sub> (mg/km)	L <sub>4</sub> (mg/km)	L <sub>2</sub> + L <sub>4</sub> (mg/km)	L <sub>2</sub> + L <sub>4</sub> (mg/km)	L <sub>5</sub> (mg/km)	L <sub>5</sub> (mg/km)	L <sub>6</sub> (#/km)	L <sub>6</sub> (#/km)			
PI	CI	PI	CI	PI	CI	PI	CI	PI	CI	PI <sup>b</sup>	CI	PI <sup>bc</sup>	CI				
M	—	All	1 000	500	100	—	68	—	60	80	—	170	4,5	4,5	6,0 × 10 <sup>11</sup>	6,0 × 10 <sup>11</sup>	
N <sub>1</sub>	I	RM ≤ 1 305	1 000	500	100	—	68	—	60	80	—	170	4,5	4,5	6,0 × 10 <sup>11</sup>	6,0 × 10 <sup>11</sup>	
	II	1 305 < RM	1 810	630	130	—	90	—	75	105	—	195	4,5	4,5	6,0 × 10 <sup>11</sup>	6,0 × 10 <sup>11</sup>	

**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 × 10<sup>12</sup> #/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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		$\leq 1$ 760														
	III	1 760 < RM	2 270	740	160	—	108	—	82	125	—	215	4,5	4,5	6,0 × 10 <sup>11</sup>	6,0 × 10 <sup>11</sup>
N <sub>2</sub>	—	All	2 270	740	160	—	108	—	82	125	—	215	4,5	4,5	6,0 × 10 <sup>11</sup>	6,0 × 10 <sup>11</sup>

**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 <sub>1</sub> (g/km)	Mass of hydrocarbons (HC)L <sub>2</sub> (g/km)
M	—	15	1,8
N <sub>1</sub>	I	15	1,8
	II	24	2,7
	III	30	3,2
N <sub>2</sub>		30	3,2

## ANNEX II

### Amendments to Directive 70/156/EEC

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

1. 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 M<sub>1</sub> points 45, 46.1 and 46.2; Annex IX, Side 2 for complete or completed vehicles of categories M<sub>2</sub> and M<sub>3</sub> points 45 and 46.1; Annex IX, Side 2 for complete or completed vehicles of categories N<sub>1</sub>, N<sub>2</sub> and N<sub>3</sub> points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of category M<sub>1</sub> points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of categories M<sub>2</sub> and M<sub>3</sub> points 45 and 46.1; Annex IX, Side 2 for incomplete vehicles of categories N<sub>1</sub>, N<sub>2</sub> and N<sub>3</sub> 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 M<sub>1</sub>; Annex IX, Side 2 for complete or completed vehicles of categories M<sub>2</sub> and M<sub>3</sub>; Annex IX, Side 2 for complete or completed vehicles of categories N<sub>1</sub>, N<sub>2</sub> and N<sub>3</sub>; Annex IX, Side 2 for incomplete vehicles of category M<sub>1</sub>; Annex IX, Side 2 for incomplete vehicles of categories M<sub>2</sub> and M<sub>3</sub>; Annex IX, Side 2 for incomplete vehicles of categories N<sub>1</sub>, N<sub>2</sub> and N<sub>3</sub>; 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:

Item	Subject	Directive/ Regulation number	Official Applicability											
			M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	O <sub>1</sub>	O <sub>2</sub>	O <sub>3</sub>	O <sub>4</sub>		
2.	Emissions/ Access to information	L .../ EC (EC) p. ... No .../ ...	X <sup>a</sup>	X <sup>a</sup>		X <sup>a</sup>	X <sup>a</sup>							

**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.;

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 <sub>1</sub> ≤ 2 500 <sup>(1)</sup> kg	M <sub>1</sub> > 2 500 <sup>(1)</sup> kg	M <sub>2</sub>	M <sub>3</sub>
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 <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	O <sub>1</sub>	O <sub>2</sub>	O <sub>3</sub>	O <sub>4</sub>
2	Emissions/ Access to information	A .../ 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 <sub>3</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	O <sub>1</sub>	O <sub>2</sub>	O <sub>3</sub>	O <sub>4</sub>
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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