

COUNCIL OF THE EUROPEAN UNION

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Subject:	COMMISSION DIRECTIVE//EU of XXX amending Annexes I, II and III to Directive 2000/25/EC of the European Parliament and of the Council on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors

Delegations will find attached document D028287/03.

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COMMISSION DIRECTIVE ../.../EU

of XXX

amending Annexes I, II and III to Directive 2000/25/EC of the European Parliament and of the Council on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors

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COMMISSION DIRECTIVE ../.../EU

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amending Annexes I, II and III to Directive 2000/25/EC of the European Parliament and of the Council on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors

(Text with EEA relevance)

THE EUROPEAN COMMISSION.

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2000/25/EC of the European Parliament and of the Council of 22 May 2000 on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors and amending Council Directive 74/150/EEC¹ and in particular Article 7 thereof,

Whereas:

- (1) Directive 2000/25/EC lays down the limit values for emissions of gaseous and particulate pollutants to be applied in successive stages, and the test procedure for internal combustion engines intended to power agricultural or forestry tractors by reference to the provisions of Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997, on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery².
- (2) Technical progress requires rapid adaptation of the technical requirements set out in the Annexes to Directive 97/68/EC and therefore that Directive has been amended several times. It is therefore necessary to align Directive 2000/25/EC with the provisions of Directive 97/68/EC as amended.
- (3) Annex XII to Directive 97/68/EC has been amended by Commission Directive 2012/46/EU in order to introduce new alternative type-approvals according to technical progress at the UNECE level and so as to ensure international harmonisation with respect to alternative type-approval procedures. Those alternative type-approval provisions should therefore be introduced into Directive 2000/25/EC. In addition, it is necessary to update the references to Regulations No 49 and No 96 of the United Nations Economic Commission for Europe (UNECE) to ensure that they correspond to the amendments to Directive 97/68/EC with respect to the recognition of alternative type approvals for engines intended to power agricultural and forestry tractors.

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OJ L 173, 12.7.2000, p. 1.

OJ L 59, 27.2.1998, p. 1.

- (4) Annexes I, II and III to Directive 2000/25/EC should therefore be amended accordingly.
- (5) The measures provided for in this Directive are in accordance with the opinion of the Committee established in Article 20 of Directive 2003/37/EC,

HAS ADOPTED THIS DIRECTIVE:

Article 1

Annexes I, II and III to Directive 2000/25/EC are amended in accordance with the Annex to this Directive.

Article 2

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by the 1th January 2015 at the latest. They shall communicate to the Commission the relevant text of those provisions forthwith.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2. Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 3

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

Article 4

This Directive is addressed to the Member States.

Done at Brussels,

For the Commission The President José Manuel Barroso

Annex

Annexes I, II and III to Directive 2000/25/EC are amended as follows:

- (1) Annex I is amended as follows:
- (a) Section 3 is replaced by the following:
 - **'3. SPECIFICATIONS AND TESTS**

The provisions of Annex I, Sections 4, 8 and 9, Appendices 1 and 2, and Annexes III, IV and V to Directive 97/68/EC shall apply.';

- (b) Appendix 1 is amended as follows:
- (i) Section 2.2 is replaced by the following:
- '2.2 Measures taken against air pollution
- 2.2.1. Device for recycling crankcase gases: yes/no (¹).....
- 2.2.2 Additional anti-pollution devices (if any, and if not covered by another heading)
- 2.2.2.1. Catalytic converter: yes/no (1)
- 2.2.2.1.1. Make(s):
- 2.2.2.1.2. Type(s):
- 2.2.2.1.3. Number of catalytic converters and elements.....
- 2.2.2.1.4. Dimensions- and volume of the catalytic converter(s):
- 2.2.2.1.5. Type of catalytic action:
- 2.2.2.1.6. Total charge of precious metals:
- 2.2.2.1.7. Relative concentration:
- 2.2.2.1.8. Substrate (structure and material):
- 2.2.2.1.9. Cell density:
- 2.2.2.1.10. Type of casing for the catalytic converter(s):
- 2.2.2.1.11. Location of the catalytic converter(s) (place(s) and maximum/minimum distance(s) from engine):
- 2.2.2.1.12. Normal operating range (K):
- 2.2.2.1.13. Consumable reagent (where appropriate):

2.2.2.1.13.1.	Type and concentration of reagent needed for catalytic action:
2.2.2.1.13.2.	Normal operational temperature range of reagent:
2.2.2.1.13.3.	International standard (where appropriate):
2.2.2.1.14.	NOx sensor: yes/no (1)
2.2.2.2.	Oxygen sensor: yes/no (1)
2.2.2.1.	Make(s):
2.2.2.2.	Type:
2.2.2.3.	Location:
2.2.2.3.	Air injection: yes/no (1)
2.2.2.3.1.	Type (pulse air, air pump, etc.):
2.2.2.4.	EGR: yes/no (1)
2.2.2.4.1.	Characteristics (cooled/uncooled, high pressure/low pressure, etc.):
2.2.2.5.	Particulate trap: yes/no (1)
2.2.2.5.1.	Dimensions and capacity of the particulate trap:
2.2.2.5.2.	Type and design of the particulate trap:
2.2.2.5.3.	Location (place(s) and maximum/minimum distance(s) from engine):
2.2.2.5.4.	Method or system of regeneration, description and/or drawing:
2.2.2.5.5.	Normal operating temperature (K) and pressure (kPa) range:
2.2.2.6.	Other systems: yes/no (1)
2.2.2.6.1.	Description and operation:;
(ii) Section 2.	4 is replaced by the following
' 2.4.	Valve timing
2.4.1.	Maximum lift and angles of opening and closing in relation to dead centres or equivalent data:
2.4.2.	Reference and/or setting ranges (1)
2.4.3.	Variable valve timing system (if applicable and where intake and/or exhaust)
2.4.3.1.	Type: continuous or on/off (1)

		Parent engine (*)			**)	
Engine type						
No. of cylinders						
Rated speed (min	n ⁻¹)					
Fuel delivery (mm³) for diesel flow (g/h) for p at rated net power	engines, fuel etrol engines,					
Rated net power	(kW)					
Maximum powe	r speed (min ⁻					
Maximum net po	ower (kW)					
Maximum torqu	e speed (min ⁻					
Fuel delivery (mm³) for diesel flow (g/h) for p at maximum toro	engines, fuel etrol engines,					
Maximum torque	e (Nm)					
Low idle speed (min ⁻¹)					
	ement (in %	100				

Measures taken against air pollution

'4.2

4.2.1.	Device for recycling crankcase gases: yes/no (1)							
4.2.2	Additional anti-pollution devices (if any, and if not covered by another heading)							
4.2.2.1.	Catalytic converter: yes/no (1)							
4.2.2.1.1.	Make(s):							
4.2.2.1.2.	Type(s):							
4.2.2.1.3.	Number of catalytic converters and elements							
4.2.2.1.4.	Dimensions- and volume of the catalytic converter(s):							
4.2.2.1.5.	Type of catalytic action:							
4.2.2.1.6.	Total charge of precious metals:							
4.2.2.1.7.	Relative concentration:							
4.2.2.1.8.	Substrate (structure and material):							
4.2.2.1.9.	Cell density:							
4.2.2.1.10.	Type of casing for the catalytic converter(s):							
4.2.2.1.11.	Location of the catalytic converter(s) (place(s) and maximum/minimum distance(s) from engine):							
4.2.2.1.12.	Normal operating range (K):							
4.2.2.1.13.	Consumable reagent (where appropriate):							
4.2.2.1.13.1.	Type and concentration of reagent needed for catalytic action:							
4.2.2.1.13.2.	Normal operational temperature range of reagent:							
4.2.2.1.13.3.	International standard (where appropriate):							
4.2.2.1.14.	NOx sensor: yes/no (1)							
4.2.2.2.	Oxygen sensor: yes/no (1)							
4.2.2.2.1.	Make(s):							
4.2.2.2.	Type:							
4.2.2.2.3.	Location:							
4.2.2.3.	Air injection: yes/no (1)							
4.2.2.3.1.	Type (pulse air, air pump, etc.):							

4.2.2.4.	EGR: yes/no (¹)
4.2.2.4.1.	Characteristics (cooled/uncooled, high pressure/low pressure, etc.):
4.2.2.5.	Particulate trap: yes/no (1)
4.2.2.5.1.	Dimensions and capacity of the particulate trap:
4.2.2.5.2.	Type and design of the particulate trap:
4.2.2.5.3.	Location (place(s) and maximum/minimum distance(s) from engine):
4.2.2.5.4.	Method or system of regeneration, description and/or drawing:
4.2.2.5.5.	Normal operating temperature (K) and pressure (kPa) range:
4.2.2.6.	Other systems: yes/no (1)
4.2.2.6.1.	Description and operation:;
(v) Section	4.4 is replaced by the following
' 4.4.	Valve timing
4.4.1.	Maximum lift and angles of opening and closing in relation to dead centres or equivalent data:
4.4.2.	Reference and/or setting ranges (1):
4.4.3.	Variable valve timing system (if applicable and where intake and/or exhaust)
4.4.3.1.	Type: continuous or on/off (1)
4.4.3.2.	Cam phase shift angle:
(1) Delete v	where not applicable.'
(c) Append	lix 2 is amended as follows:
(i) Section	2.4 is replaced by the following:
' 2.4.	Emission results of the engine/parent engine (1)
2.4.1	Information concerning the conduct of the NRSC test
Det	erioration Factor (DF): calculated/fixed (1)
Spe	cify the DF values and the emission results in the following table:

		N	IRSC test			
	СО	НС	NO _x	HC+NO _x	PM	
DF mult/add (1)						
Emissions	CO (g/kWh)	HC (g/kWh)	NO _x (g/kWh)	HC+NO _x (g/kWh)	PM (g/kWh)	CO ₂ (g/kWh)
Test result						
Final test result with DF						

Additional con	itrol area test j	points (if appl	icable)			
Emissions at test point	Engine speed	Load (%)	CO (g/kWh)	HC (g/kWh)	NO _x (g/kWh)	PM (g/kWh)
Test result 1						
Test result 2						
Test result 3						

2.4.1.2.	Sampling system used for the NRSC test:
2.4.1.2.1.	Gaseous emissions (*):
2.4.1.2.2.	PM(*):
2.4.1.2.3.	Method: single/multiple filter (1)
2.4.2.	Information concerning the conduct of the NRTC test (if applicable):
2.4.2.1.	Emission results of the engine/parent engine (Deterioration Factor (DF): calculated/fixed (¹)

Specify the DF values and the emission results in the following table

Regeneration related data may be reported for Stage IV engines.

		NR	TC test			
	СО	НС	NO _x	HC+NO _x	PM	
DF mult/add (¹)						
Emissions	CO (g/kWh)	HC (g/kWh)	NO _x (g/kWh)	HC+NO _x (g/kWh)	PM (g/kWh)	
Cold start						
Emissions	CO (g/kWh)	HC (g/kWh)	NO _x (g/kWh)	HC+NO _x (g/kWh)	PM (g/kWh)	CO ₂ (g/kWh)
Hot start w/o regeneration						
Hot start with regeneration						
kr,u (mult/add) (¹) kr,d (mult/add) (¹)						
Weighted test result						
Final test result with DF						

- (*) Indicate the figure number of the system used as set out in Section 1 of Annex VI to Directive 97/68/EC;
- (1) Delete where not applicable.

(a) Section 2.2 is replaced by the following: **'2.2** Measures taken against air pollution Device for recycling crankcase gases: yes/no (1) 2.2.1. 2.2.2 Additional anti-pollution devices (if any, and if not covered by another heading) 2.2.2.1. Catalytic converter: yes/no (1) 2.2.2.1.1. Make(s):.... Type(s): 2.2.2.1.2. 2.2.2.1.3. Number of catalytic converters and elements..... 2.2.2.1.4. Dimensions- and volume of the catalytic converter(s): 2.2.2.1.5. Type of catalytic action: 2.2.2.1.6. Total charge of precious metals: 2.2.2.1.7. Relative concentration: 2.2.2.1.8. Substrate (structure and material): 2.2.2.1.9. Cell density: 2.2.2.1.10. Type of casing for the catalytic converter(s): 2.2.2.1.11. Location of the catalytic converter(s) (place(s) and maximum/minimum distance(s) from engine): 2.2.2.1.12. Normal operating range (K): 2.2.2.1.13. Consumable reagent (where appropriate): Type and concentration of reagent needed for catalytic action: 2.2.2.1.13.1. 2.2.2.1.13.2. Normal operational temperature range of reagent: 2.2.2.1.13.3. International standard (where appropriate): NOx sensor: yes/no (1) 2.2.2.1.14. Oxygen sensor: yes/no (1) 2.2.2.2. 2.2.2.2.1. Make(s): 2.2.2.2.2. Type: 2.2.2.2.3. Location:

(2) In Annex II, Appendix 1 is amended as follows:

2.2.2.3.	Air injection: yes/no (¹)
2.2.2.3.1.	Type (pulse air, air pump, etc.):
2.2.2.4.	EGR: yes/no (1)
2.2.2.4.1.	Characteristics (cooled/uncooled, high pressure/low pressure, etc.):
2.2.2.5.	Particulate trap: yes/no (1)
2.2.2.5.1.	Dimensions and capacity of the particulate trap:
2.2.2.5.2.	Type and design of the particulate trap:
2.2.2.5.3.	Location (place(s) and maximum/minimum distance(s) from engine):
2.2.2.5.4.	Method or system of regeneration, description and/or drawing:
2.2.2.5.5.	Normal operating temperature (K) and pressure (kPa) range:
2.2.2.6.	Other systems: yes/no (1)
2.2.2.6.1.	Description and operation:;
(b) section 2.4	is replaced by the following:
'2.4.	Valve timing
2.4.1.	Maximum lift and angles of opening and closing in relation to dead centres or equivalent data:
2.4.2.	Reference and/or setting ranges (1):
2.4.3.	Variable valve timing system (if applicable and where intake and/or exhaust)
2.4.3.1.	Type: continuous or on/off (1)
2.4.3.2.	Cam phase shift angle:
(1) Delete who	ere not applicable.'
(3) Annex III	is replaced by the following:
'ANNEX III	

RECOGNITION OF ALTERNATIVE TYPE-APPROVALS

The following type-approvals and, where applicable, the pertaining approval marks are recognised as being equivalent to an approval to this Directive:

1. For engines categories H, I, J and K (stage IIIA) as specified in Article 9(3a) and (3b) of Directive 97/68/EC, type-approvals in accordance with points 3.1, 3.2 and 3.3 of Annex XII to Directive 97/68/EC.

- 2. For engines categories L, M, N and P (stage IIIB) as specified in Article 9(3c) of Directive 97/68/EC, type-approvals in accordance with points 4.1, 4.2 and 4.3 of Annex XII to Directive 97/68/EC.
- 3. For engines categories Q and R (stage IV) as specified in Article 9(3d) of Directive 97/68/EC, type-approvals in accordance with, points 5.1 and 5.2 of Annex XII to Directive 97/68/EC.'