Commission Directive 2012/46/EU of 6 December 2012 amending Directive 97/68/EC of the European Parliament and of the Council 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 machinery (Text with EEA relevance)

Engine type: ...

1.

1.4.

Engine performance

Engine identification number: ...

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ANNEX V

In Annex VII to Directive 97/68/EC Appendix 1 is replaced by the following:

'Appendix 1

Test report for compression ignition engines test ${\it results}^{(1)}$ Information concerning the test engine

Information concerning the conduct of the test: ...

1.1.	Reference fue	el used for test								
1.1.1.	Cetane number:									
1.1.2.	Sulphur content:									
1.1.3.	Density:									
1.2.	Lubricant									
1.2.1.	Make(s):									
1.2.2.	Type(s):									
(state pe	ercentage of oil	in mixture if lubricant	and fuel are mixed)							
1.3.	Engine driven	equipment (if applical	ole)							
1.3.1.	Enumeration a	and identifying details:								
1.3.2.	Power absorb	ed at indicated engine	speeds (as specified by t	the manufacturer):						
		D D. (I-W) - I-								
			sorbed at various engi	ne speeds , taking						
speed(if speed(if different										
Equip	ment	Intermediate	Maximum power	Rated speed ^c						
Equip	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Equip	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Equip	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Equip	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Equip	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Total:	ment	Intermediate speed(if	Maximum power speed(if different	Rated speed ^c						
Total:	ete as appropriate.	Intermediate speed(if	Maximum power speed(if different from rated)	Rated speed ^c						
Total: a Dele b Shal	ete as appropriate.	Intermediate speed(if applicable)	Maximum power speed(if different from rated)							

ANNEX V

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1	г.	1
.1.	Engine	speeas:
	Liigiiic	Specus

Idle: ... min⁻¹

Intermediate: ... min⁻¹

Maximum power: ... min⁻¹

Rated⁽²⁾: ... min⁻¹

1.4.2. Engine power⁽³⁾

	Power setting (kW) at various engine speeds						
Condition	Intermediate speed(if applicable)	Maximum power speed(if different from rated)	Rated speed ^a				
Maximum power measured at specified test speed (P _M) (kW) (a)							
Total power absorbed by engine driven equipment as per paragraph 1.3.2 of this Appendix taking into account Appendix 3 (kW) (b)							
Net engine power as specified in Section 2.4 of Annex I (kW) (c)							
c=a+b							

a Replace with values at engine speed corresponding to 100 % normalised speed if NRSC test uses this speed.

2. Information concerning the conduct of the NRSC test:

2.1. Dynamometer setting (kW)

	Dynamometer setting (kW) at various engine speeds							
Per cent load	Intermediate speed(if applicable)	63 %(if applicable)	80 %(if applicable)	91 %(if applicable)	Rated speed ^a			
10 (if applicable)								
25 (if applicable)								

a Replace with values at engine speed corresponding to 100 % normalised speed if NRSC test uses this speed.

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50			
75 (if applicable)			
100			

a Replace with values at engine speed corresponding to 100 % normalised speed if NRSC test uses this speed.

2.2. Emission results of the engine/parent engine⁽⁴⁾

Deterioration Factor (DF): calculated/fixed⁽⁴⁾

Specify the DF values and the emission results in the following table⁽⁴⁾:

NRSC test						
DF mult/add ³	СО	НС	NO _x	$HC + NO_x$	PM	
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 control area test points (if applicable)							
Emissions at test point	Engine speed	Load(%)	CO(g/ kWh)	HC(g/ kWh)	NO _x (g/kWh)	PM(g/ kWh)	
Test result							
Test result 2							
Test result 3							

- 2.3. Sampling system used for the NRSC test:
- 2.3.1. Gaseous emissions⁽⁵⁾: ...
- 2.3.2. PM⁽⁵⁾: ...
- 2.3.2.1. Method⁽⁶⁾: single/multiple filter
- 3. Information concerning the conduct of the NRTC test (if applicable):
- 3.1. Emission results of the engine/parent engine⁽⁶⁾

ANNEX V

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Deterioration Factor (DF): calculated/fixed^a

Specify the DF values and the emission results in the following table^a:

Regeneration related data may be reported for Stage IV engines.

NRTC test						
DF mult/add ^a	СО	НС	NO _x	HC + NO _x	PM	
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	ia.					
kr,u (mult/add) ^a kr,d (mult/add) ^a						
Weighted test result						
Final test result with DF						

a Delete as appropriate.

Cycle work for hot start w/o regeneration kWh

3.2. Sampling system used for the NRTC test:

Gaseous emissions⁽⁷⁾: ...

PM⁽⁷⁾: ...

Method⁽⁸⁾: single/multiple filter

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- (1) For the case of several parent engines, the following is to be indicated for each of them.
- (2) Insert engine speed corresponding to 100 % normalised speed if NRSC test uses this speed.
- (3) Uncorrected power measured in accordance with Section 2.4 of Annex I.
- (4) Delete as appropriate.
- (5) Indicate figure number of system used as defined in Annex VI Section 1 or Section 9 of Annex 4B of ECE R96 03 series of amendments, as applicable.
- (6) Delete as appropriate.
- (7) Indicate figure number of system used as defined in Annex VI Section 1 or Section 9 of Annex 4B of ECE R96 03 series of amendments, as applicable.
- (8) Delete as appropriate.'