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ANNEX V

[F1(A)[X1Environmental performance test procedures and requirements]

L-category vehicles may be type-approved only if they comply with the following [X1]environmental performance requirements]:

| Test type | Description | Requirements: limit values | Subclassification criteria in addition to Article 2 and Annex I | Requirements: test procedures | | |
|-----------|--|--|--|---|--|--|
| I | Tailpipe emissions after cold start | Annex VI (A) | Point 4.3 of Annex II to Commission Delegated Regulation (EU) No 134/2014 | Annex II to Commission Delegated Regulation (EU) No 134/2014 | | |
| II | — PI or Hybrid (5) equipped with PI: emission at idling and increase idling speed CI or Hybrid with CI engine: free acceleratest | d | Point 4.3 of Annex II to Commission Delegated Regulation (EU) No 134/2014 | Annex III to Commission Delegated Regulation (EU) No 134/2014 | | |
| III | Emissions of crankcase gases | Zero emission, closed crankcase. Crankcase emissions shall not be discharged directly into the ambient atmosphere from any vehicle throughout its useful life. | Point 3.2 of Annex XI to Commission Delegated Regulation (EU) No 134/2014 | Annex IV to Commission Delegated Regulation (EU) No 134/2014 | | |

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| IV | Evaporative emissions | Annex VI (C) | Point 3.2 of Annex XI to Commission Delegated Regulation (EU) No 134/2014 | Annex V to Commission Delegated Regulation (EU) No 134/2014 | |
|------|---|---|--|--|--|
| V | Durability of pollution control devices | Annexes VI and VII | SRC-LeCV: point 2 of Appendix 1 to Annex VI to Commission Delegated Regulation (EU) No 134/2014 USA EPA AMA: point 2.1 of Appendix 2 to Annex VI to Commission Delegated Regulation (EU) No 134/2014 | Annex VI to Commission Delegated Regulation (EU) No 134/2014 | |
| VI | A test-type VI has not been attributed | Not applicable | Not applicable | Not applicable | |
| VII | CO ₂ emissions, fuel and/or electric energy consumption and electric range | Measurement and reporting, no limit value for type- approval purposes | Point 4.3 of Annex II to Commission Delegated Regulation (EU) No 134/2014 | Annex VII to Commission Delegated Regulation (EU) No 134/2014 | |
| VIII | OBD environmental tests | Annex VI (B) | Point 4.3 of Annex II to Commission Delegated Regulation (EU) No 134/2014 | Annex VIII to Commission Delegated Regulation (EU) No 134/2014 | |
| IX | Sound level | Annex VI (D) | When UNECE regulations Nos 9, 41, 63 or 92 replace the EU proprietary requirements set out in the delegated act on environmental and propulsion performance requirements, the (sub-) | Annex IX to Commission Delegated Regulation (EU) No 134/2014.] | |

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| classification criteria laid down in those UNECE regulations (Annex 6) shall be selected with reference to test type IX sound level tests. | down in those UNECE regulations (Annex 6) shall be selected with reference to test type IX sound |
|--|--|
|--|--|

(B) Application of environmental performance test requirements for approval and extensions

| | Vehicle with PI engines including hybrids | | | | | | | | | Vehicles with CI engines including hybrids | | Pure Hydroger electriFuel vehiclæell or vehicle vehicle | |
|---|---|----------------|---------|-----|--|------------------------|------------------------|---------------------------------------|---------------------------------------|--|----------------------|---|-------|
| | [X1M | ono-fu | el] | | Bi-fuel | | | Flex-fuel | | Flex- fuel | Mon- fuel | o-propelled with | elled |
| | [X1PetrbPG (E5)] | | | | Petrol Petrol Petro ne (E5) (E5) (E5) | | | | Diesel Diese ne (Bā ne (B5) | | el compressed air | | |
| | (ES)] Bio | | | | LPG | NG/ | H ₂ | Ethan d ₂ N(e (E85) | | | (CA) | | |
| Type I test (19) | Yes | Yes | Yes | Yes | | | Yes (both fuels) | Yes (both fuels) | | Yes (B5 only) | Yes | No | No |
| [F2Ty] I test (mass (Euro 5 only) | ¹⁹)Par o | No ticulate | No e | No | Yes (petro only) | | | Yes l(petro only) | No l | Yes (B5 only) | Yes | No/ Yes for CA | No |
| Type II test (19), inclu smok opaci for CI only | Yes ding | Yes | Yes | Yes | Yes (both fuels) | Yes (both fuels) | | Yes l(both fuels) | Yes (NG/ biome only) | Yes (B5 sthnhe) | Yes | No | No |
| Type III test (¹⁹) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |

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| Type IV test (19) | Yes | No | No | No | Yes (petro only) | \ 1 | Yes l(petro only) | Yes l(petro only) | No l | No | No | No | No |
|---|-----|-----|-----|-----|------------------------|------------|-------------------------|-------------------------|--------------------------------|-----------------------|-----|---------------------------------|--------------------------------------|
| Type V test (19) | Yes | Yes | Yes | Yes | Yes (petro only) | | | Yes l(petro only) | Yes l(NG/ biome only) | Yes (B5 ethnhe) | Yes | No | No |
| Type VII test (19) | Yes | Yes | Yes | Yes | Yes (both fuels) | | Yes (both fuels) | ` | Yes (both fuels) | | Yes | Yes (only energy consu | |
| Type VIII test (¹⁹) | Yes | Yes | Yes | Yes | Yes (petro only) | \ A | \ A | Yes l(petro only) | ` | Yes (B5 ethnhe) | Yes | No | No |
| Type IX test (¹⁹) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | [XINo Yes for CA] | ^{[20]1} No ^{(20)]} |

Textual Amendments

Substituted by Regulation (EU) 2019/129 of the European Parliament and of the Council of 16 January 2019 amending Regulation (EU) No 168/2013 as regards the application of the Euro 5 step to the type-approval of two- or three-wheel vehicles and quadricycles.

NB: refer to the end of Annex VIII for an overview of the notes to the annexes.

Changes to legislation:

There are currently no known outstanding effects for the Regulation (EU) No 168/2013 of the European Parliament and of the Council, ANNEX V.