



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Mobilité
et des Travaux publics

Département de la mobilité
et des transports

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
S.A.

Registre de Commerce: B 27180



L-8070 Bertrange

Référence: e13*168/2013*02570*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 14 mai 2025

FICHE DE RÉCEPTION UE PAR TYPE D'UN VÉHICULE ENTIER

EU WHOLE-VEHICLE TYPE-APPROVAL CERTIFICATE

Communication concernant:

Communication concerning:

- la réception UE par type d'un véhicule entier
EU whole-vehicle type-approval
- ~~l'extension de la réception UE par type d'un véhicule entier~~
~~extension of EU whole-vehicle type approval~~
- ~~le refus de la réception UE par type d'un véhicule entier~~
~~refusal of EU whole-vehicle type approval~~
- ~~le retrait de la réception UE par type d'un véhicule entier~~
~~withdrawal of EU whole-vehicle type approval~~

pour un type de véhicule complet
of a complete vehicle type

en vertu du règlement (UE) N° 168/2013,
modifié en dernier lieu par le règlement (délégué de la Commission) (UE) N° 2024/2847
with regard to Regulation (EU) N° 168/2013,-as last amended by (Commission Delegated) Regulation (EU) N° 2024/2847

Numéro de réception UE par type:

EU type-approval number:

e13*168/2013*02570*00

Raison de l'extension:

Reason for extension:

not applicable

SECTION I

SECTION I

- 0.1. Marque (dénomination commerciale du constructeur):**
Make (trade name of manufacturer): ChinMoto, ChinSporter, hanbird
- 0.2. Type:**
Type: Chinmoto-01
- 0.2.1. Variante(s):**
Variant(s): 00
- 0.2.2. Version(s):**
Version(s): 00, 01
- 0.2.3. Appellation(s) commerciale(s) (le cas échéant):**
Commercial name(s) (if available): R3
- 0.3. Catégorie, sous-catégorie et sous-sous-catégorie du véhicule:**
Category, subcategory and sub-subcategory of vehicle: L1e-B
- 0.4. Raison sociale et adresse du constructeur du véhicule complet:**
Company name and address of manufacturer of the complete vehicle: Hanbird Technology (Hongkong) Limited
Flat 03C3, 15/F, Carnival Commercial Building,
18 Java Road, North Point, Hong Kong, China
- 0.4.1. Nom(s) et adresse(s) de(s) usines d'assemblage:**
Name(s) and adresse(s) of assembly plant(s): Wuxi Taibao Technology Co., Ltd.
(Next to Wuxi Yaheng Machinery Vehicle Parts Co., Ltd.)
Donggang Avenue, Liguoxi Community,
Donggang Town, Xishan District, Wuxi City,
Jiangsu Province, P. R. China
- 0.4.2. Nom et adresse du mandataire du constructeur (le cas échéant):**
Name and address of manufacturer's authorised representative, if any: Marek Jaros
Nadrazni 601, 395 01 Pacov, Czech Republic

SECTION II

SECTION II

- 1. Service technique responsable de la réalisation des essais:**
Technical service responsible for carrying out the tests: CETOC Technical Service s.r.l.
- 2. Date du rapport d'essais:**
Date of test report: 27.03.2025
- 3. Numéro du rapport d'essais:**
Number of test report: CN-50-2-546-WHO24-23916-IR

SECTION III

SECTION III

Le soussigné certifie l'exactitude de la description, faite par le constructeur dans la fiche de renseignements jointe, du type de véhicule décrit ci-dessus, dont un ou plusieurs échantillons représentatifs, sélectionnés par l'autorité compétente en matière de réception UE par type, ont été présentés en tant que prototypes du type de véhicule, et que les résultats d'essais joints s'appliquent au type de véhicule.

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or more representative samples, selected by the EU type-approval authority, have been submitted as prototypes of the vehicle type and that the attached test results apply to the vehicle type.

- | | | |
|--------|---|---|
| 1. | <p>Le type de véhicule complet satisfait/
ne satisfait pas à l'ensemble des prescriptions
pertinentes énumérées dans l'annexe II du
règlement (UE) N° 168/2013.</p> <p>The complete vehicle type meets/does not meet all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013.</p> | <p>The complete vehicle type meets all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013</p> |
| 1.1. | <p>Restrictions de validité:</p> <p>Restrictions of validity:</p> | <p>not applicable</p> |
| 1.2. | <p>Dérogations accordées:</p> <p>Waivers applied:</p> | <p>not applicable</p> |
| 1.2.1. | <p>Raisons des dérogations:</p> <p>Reasons for the waivers:</p> | <p>not applicable</p> |
| 1.2.2. | <p>Autres exigences applicables:</p> <p>Alternative requirements:</p> | <p>not applicable</p> |
| 2. | <p>La réception est accordée/étendue/refusée/
retirée:</p> <p>The approval is granted/extended/refused/withdrawn:</p> | <p>the approval is granted</p> |
| 2.1. | <p>La réception est accordée conformément à
l'article 40 du règlement (UE) N° 168/2013 et
sa validité expire, par conséquent, le
jj/mm/aaaa.</p> <p>The approval is granted in accordance with Article 40 of Regulation (EU) N° 168/2013 and the validity of the approval is thus limited to dd/mm/yyyy.</p> | <p>not applicable</p> |

Lieu:
Place:

Bertrange

Date:
Date:

14 mai 2025

Signature:
Signature:

**Pour la Ministre de la Mobilité
et des Travaux publics**



Iliass ZERKTOUNI
Attaché

Pour la SNCH



Laurent LINDEN
Directeur opérationnel



Pièces jointes:
Attachments:

- **Dossier de réception**
Information package
- **Résultats d'essai**
Test results
- **Nom(s) et spécimen(s) de signature de la ou des personnes autorisées à signer les certificats de conformité et indication de leurs fonctions dans la société**
Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company
- **Spécimen complété du certificat de conformité**
A completed specimen of the certificate of conformity

NB:
NB:

not applicable

Addendum à la fiche de réception UE par type

Addendum to the EU type-approval certificate

Liste des actes réglementaires aux prescriptions desquels le type de véhicule satisfait

List of regulatory acts with which the type of vehicle complies

refer to Appendix 3 - Page(s) 6 to 10 of inspection report N° CN-50-2-546-WHO24-23916-IR



Référence: e13*168/2013*02570*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 14 mai 2025

Index du dossier de réception

Index to type-approval report

Numéro de réception UE par type:

EU type approval number:

e13*168/2013*02570*00

Révision:

Revision:

00

Marque de fabrique ou de commerce:

Trade name or mark:

ChinMoto, ChinSporter, hanbird

Type:

Type:

Chinmoto-01

1. Procès-verbal d'essai:

Test report:

N° CN-50-2-546-WHO24-23916-IR

- Inspection report:
- Addenda of inspection report:

Page(s) 1 to 10;
Page(s) 11 to 112.

2. Dossier du constructeur:

Report of the manufacturer:

N° Chinmoto-01-00

- Index of content:
- Document revisions history:
- Information folder sheet:
- Type approval numbers overview:
- Variants and versions matrix:
- Information document:
- Drawings list:
- Technical description of the vehicle type and its components:

Page(s) 1;
Page(s) 2;
Page(s) 1 & 2;
Page(s) 1 to 3;
Page(s) 1;
Page(s) 1 to 24;
Page(s) 25 & 26;
refer to drawing list.

3. Autres documents annexés:

Other documents annexed:

not applicable

4. Date de délivrance de la réception initiale:

Date of issue of initial type approval:

07.05.2025

5. Date de la dernière délivrance de pages révisées:

Date of last issue of revised pages:

not applicable

6. Date de la dernière délivrance d'une réception révisée:

Date of last extension:

14.05.2025



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L-8070 Bertrange

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Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 14 mai 2025

Annexe VIII Annex VIII

Fiche des résultats d'essais Test results sheet

refer to Appendix 3 of inspection report N° CN-50-2-546-WHO24-23916-IR

Approval and Market Surveillance of Two or Three Wheel Vehicles and Quadricycles

0. Legislation

- 0.1. Requirements according to : Reg. (EU) 168/2013 amended by Reg. (EU) 134/2014, Reg. (EU) 2019/129, Reg. (EU) 2020/1694, Reg. (EU) 2024/1252, Reg. (EU) 2024/1689, Reg. (EU) 2024/2847
Including Delegated act (EU) 3/2014 amended (EU) 2016/1824
Including Delegated act (EU) 44/2014 amended (EU) 2018/295
Including Delegated act (EU) 134/2014 amended (EU) 2023/2724
Including Delegated act (EU) 901/2014 amended (EU) 2020/239

1. General

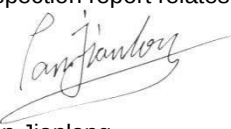
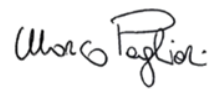
- 1.1. Reason for Inspection Report : New approval / ~~Extension of approval / Revision of approval / Test report only / COP~~
1.1.1. Previous type approval number : Not applicable
1.2. Manufacturer's Representative(s) : Mr. Jie Zhu
1.3. CETOC TS Representative(s) : Pan Jianlong
1.4. Location of test : See Appendixes
1.5. Date of test : See Appendixes

2. Manufacturer Details

- 2.1. Make : ChinMoto, ChinSporter, hanbird
2.2. Type : Chinmoto-01
2.3. Variant/Version : 00/00, 00/01
2.4. Commercial Name : R3
2.5. Category : L1e-B
2.6. Name and Address of manufacturer : Hanbird Technology (Hongkong) Limited
Flat 03C3, 15/F, Carnival Commercial Building, 18 Java Road, North Point, Hong Kong, China

3. Conclusion

- 3.1. Final conclusion of the inspection: The above mentioned type was tested in accordance with the above mentioned legislation and was found to comply in all respects. This Inspection report relates only to the items tested.

Signature:		
Name:	Pan Jianlong	Marco Pagliari
Position:	Type Approval Engineer	Technical Manager
Place and date:	Hangzhou, 27/03/2025	Roma, 27/03/2025

4. List of Appendixes

- Appendix 1 : Test report history
Appendix 2.1 : Vehicle specification of tested if equipped with combustion engine.
Appendix 2.2 : Vehicle specification of tested vehicle if equipped with electric motor.
Appendix 3 : Addendum to the EU type approval certificate

APPENDIX 1 - TEST REPORT HISTORY

List this report and previous reports, with extension details.

Inspection Report Number	Reason for Extension / Revision / Correction	Date of Issue
CN-50-2-546-WHO24-23916-IR	New approval	27/03/2025

APPENDIX 2.1 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH COMBUSTION ENGINE

1.1.	Variant/Version	:	Not applicable
1.2	Vehicle Identification Number	:	Not applicable
1.3.	Engine Type	:	Not applicable
1.3.1.	Engine family	:	Not applicable
1.4.	Engine Capacity (cm3)	:	Not applicable
1.5	No. of Cylinders	:	Not applicable
1.6	Engine Layout	:	Not applicable
1.7	Engine Cooling	:	Not applicable
1.8	Reference Fuels	:	Not applicable
1.9	Fuel Tank	:	Not applicable
1.10	Canister	:	Not applicable
1.11	Fuel Feed	:	Not applicable
1.12	Spark Plug	:	Not applicable
1.13	Intake System	:	Not applicable
1.14	Exhaust System	:	Not applicable
1.14.1	Lambda Sensor	:	Not applicable
1.14.2	Secondary Air	:	Not applicable
1.14.3	Catalyst	:	Not applicable
1.15	ECU	:	Not applicable
1.16	OBD	:	Not applicable
1.17	Maximum Power (kW)	:	Not applicable
1.18	Maximum Torque(Nm)	:	Not applicable
1.19	Idle Speed	:	Not applicable
1.20	Transmission	:	Not applicable
1.20.1	Primary	:	Not applicable
1.20.2	Secondary	:	Not applicable
1.20.3	Final	:	Not applicable
1.21	Actual mass (kg)	:	Not applicable
1.22	Inertial Mass (kg)	:	Not applicable
1.23	Vehicle Length	:	Not applicable
1.24	Maximum Design Speed / Declared maximum vehicle speed (km/h)	:	Not applicable
1.25	PMR	:	Not applicable
1.26	$a_{Wot,ref}$	:	Not applicable
1.27	a_{Urban}	:	Not applicable
1.28	Reference Length (l_{Ref})	:	Not applicable
1.29	Gear Weighting Factor (K)	:	Not applicable

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1.30	Partial Power Factor (Kp)	:	Not applicable	
1.31	Tyre		Front Tyre	Rear Tyre
1.31.1	Dimension	:	Not applicable	Not applicable
1.31.2	Pressure (kPa)	:	Not applicable	Not applicable
1.31.3	Rolling Circ. (mm)	:	Not applicable	Not applicable

APPENDIX 2.2 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH ELECTRIC MOTOR

1.1.	Variant/Version	:	00/00, 00/01
1.2.	Vehicle Identification Number	:	00/00: R5H01VM00RA000100 00/01(Shape 1): R5H01VM02RA000101 00/01(Shape 2): R5H01VM04RA000102
1.3.	Type of propulsion	:	Pure electric
1.4.	Electric motor code	:	TB3000W
1.5.	Electric motor layout	:	Hub motor mounted on rear wheel, Refer to drawing No. Chinmoto-01-05
1.6.	Electric motor cooling	:	Air
1.7.	ECU Electric motor control unit	:	Manufacturer: Jiangsu Fardriver Technical Co., Ltd. Make: Fardriver Identification number: 72V80A Refer to drawing No. Chinmoto-01-06
1.8.	OBD	:	Not applicable

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1.9.	Propulsion battery	:	
1.9.1.	Kind of electrochemical couple	:	Lithium battery
1.9.2.	Battery voltage	:	72 V
1.9.3.	Battery capacity	:	40 Ah
1.10.	Charger	:	External, Refer to drawing No. Chinmoto-01-37
1.11.	Maximum continuous-rated power electric motor (15/30 minutes power)	:	3.0 kW at 520 min ⁻¹
1.12.	Maximum continuous-rated torque electric motor	:	55.0 Nm at 520 min ⁻¹
1.13.	Transmission	:	Other (wheel-hub motor)
1.13.1	Internal ratio / primary ratio / secondary ratio	:	Not applicable
1.13.2	Final	:	Not applicable
1.14.	Actual mass (kg)	:	204
1.14.1	Inertial Mass (kg)	:	200
1.15.	Maximum Design Speed / Declared maximum vehicle speed (km/h)	:	45
1.16.	Tyres		Front Tyre Rear Tyre
	Dimension	:	110/70-17 M/C 54P 140/70-17 M/C 66P
1.16.1.	Pressure (kPa)	:	225 225
1.16.2.	Rolling Circ. (mm)	:	1840 1972

APPENDIX 3 - ADDENDUM TO THE EU TYPE- APPROVAL CERTIFICATE

A. ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS (EPPR)

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
A1	Tailpipe emissions after cold start	134/2014 Annex II (EU) 2023/2724	☐	☐	☒	☐	CN-50-2-546-SYS24-23917-IR	11 - 23
	Tailpipe emissions at (increased) idle/ free acceleration	134/2014 Annex III (EU) 2023/2724	☐	☐	☒	☐		
	Durability of pollution-Control devices	134/2014 Annex VI (EU) 2023/2724	☐	☐	☒	☐		
	CO ₂ emissions, fuel consumption, electric energy consumption and electric range	134/2014 Annex VII (EU) 2023/2724	☒	☐	☐	☐		
A2	Emissions crankcase gases	134/2014 Annex IV (EU) 2023/2724	☐	☐	☒	☐	/	/
A3	Evaporative emissions	134/2014 Annex V (EU) 2023/2724	☐	☐	☒	☐	/	/
A4	OBD environmental tests	134/2014 Annex VIII (EU) 2023/2724	☐	☐	☒	☐	/	/
A5	Sound level	134/2014 Annex IX (EU) 2023/2724	☐	☐	☒	☐	/	/
A6	Procedures and technical requirements on maximum vehicle design speed, maximum torque, maximum continuous Total power and maximum peak power	134/2014 Annex X (EU) 2023/2724 UNECE R85.00	☒	☐	☐	☐	CN-50-2-546-SYS24-23918-IR	24 - 30
A7	Vehicle propulsion family definition	134/2014 Annex XI (EU) 2023/2724	☐	☐	☒	☐	/	/

B. VEHICLE FUNCTIONAL SAFETY REQUIREMENTS (VFSR)

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
B1	Audible warning devices	3/2014 Annex II (EU) 2016/1824 UNECE R28.00	☒	☐	☐	☐	CN-50-2-546-SYS24-23919-IR	31 - 32
B2	Braking, including anti- lock and combined brake systems	3/2014 Annex III (EU) 2016/1824 UNECE R78.06	☒	☐	☐	☐	CN-50-2-546-SYS24-23920-IR	33 - 37
B3	Electrical safety	3/2014 Annex IV (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23921-IR	38 - 42
B4	Endurance Testing of Functional Safety Critical Systems, Parts and Equipment	3/2014 Annex V (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23922-IR	43
B5	Front and rear protective structures	3/2014 Annex VI (EU) 2016/1824	☐	☐	☒	☐	/	/
B6	Glazing, windscreen wipers and washers, and defrosting and demisting systems	3/2014 Annex VII (EU) 2016/1824	☐	☐	☒	☐	/	/
B7	Driver-operated controls including identification of controls, tell-tales and indicators	3/2014 Annex VIII (EU) 2016/1824 UNECE R60.00 UNECE R39.01	☒	☐	☐	☐	CN-50-2-546-SYS24-23923-IR	44- 47
B8	Installation of lighting and light- signalling devices, including automatic switching of lighting	3/2014 Annex IX (EU) 2016/1824 UNECE R74.02	☒	☐	☐	☐	CN-50-2-546-SYS24-23924-IR	48 - 50
B9	Rearward visibility	3/2014 Annex X (EU) 2016/1824 UNECE R81.00	☒	☐	☐	☐	CN-50-2-546-SYS24-23925-IR	51
B10	Rollover protective structure (ROPS)	3/2014 Annex XI (EU) 2016/1824	☐	☐	☒	☐	/	/

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
B11	Safety-belt anchorages and safety- belts	3/2014 Annex XII (EU) 2016/1824	☐	☐	☒	☐	/	/
B12	Seating positions (saddles and seats)	3/2014 Annex XIII (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23926-IR	52 - 53
B13	Steer-ability, cornering properties and turn-ability	3/2014 Annex XIV (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23927-IR	54 - 55
B14	Installation of tyres	3/2014 Annex XV (EU) 2016/1824 UNECE R75.00	☒	☐	☐	☐	CN-50-2-546-SYS24-23928-IR	56 - 58
B15	Vehicle maximum speed limitation plate and its location on the vehicle	3/2014 Annex XVI (EU) 2016/1824	☐	☐	☒	☐	/	/
B16	Vehicle occupant protection, including interior fittings and vehicle doors	3/2014 Annex XVII (EU) 2016/1824	☐	☐	☒	☐	/	/
B17	Maximum continuous total power and/or maximum vehicle speed limitation by design	3/2014 Annex XVIII (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23929-IR	59 - 61
B18	Vehicle structure integrity	3/2014 Annex XIX (EU) 2016/1824	☒	☐	☐	☐	CN-50-2-546-SYS24-23930-IR	62

C. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
C1	Powertrain tampering prevention (anti-tampering) measures	44/2014 Annex II (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23931-IR	63 - 67
C2	Arrangements for type-approval	44/2014 Annex III (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23932-IR	68
C3	Conformity of production (CoP)	44/2014 Annex IV (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23933-IR	69
C4	Coupling devices and attachments	44/2014 Annex V (EU) 2018/295	☐	☐	☒	☐	/	/
C5	Devices to prevent unauthorised use	44/2014 Annex VI (EU) 2018/295 UNECE R62.01	☒	☐	☐	☐	CN-50-2-546-SYS24-23934-IR	70 - 72
C6	Electromagnetic compatibility (EMC)	44/2014 Annex VII (EU) 2018/295 UNECE R10.06	☒	☐	☐	☐	CN-50-2-546-SYS24-23935-IR	73- 99
C7	External projections	44/2014 Annex VIII (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23936-IR	100 - 101
C8	Fuel storage	44/2014 Annex IX (EU) 2018/295	☐	☐	☒	☐	/	/
C9	Load platforms	44/2014 Annex X (EU) 2018/295	☐	☐	☒	☐	/	/
C10	Masses and dimensions	44/2014 Annex XI (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23937-IR	102 - 103
C11	Functional on-board diagnostics (OBD)	44/2014 Annex XII (EU) 2018/295	☐	☐	☒	☐	/	/
C12	Passenger handholds and footrests	44/2014 Annex XIII (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23938-IR	104 - 105

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
C13	Registration plate space	44/2014 Annex XIV (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23939-IR	106 - 108
C14	Access to repair and maintenance information	44/2014 Annex XV (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23940-IR	109
C15	Stands	44/2014 Annex XVI (EU) 2018/295	☒	☐	☐	☐	CN-50-2-546-SYS24-23941-IR	110 - 111

D. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

Nr.	Subject	Commission Delegated Regulation (EU) No Including last amendment	PASS	FAIL	N/A	COVER BY PREVIOUS EXTENSION	Inspection report / certificate Nr.	Page Nr.
D1	Statutory plate	901/2014 Annex V (EU) 2020/239	☒	☐	☐	☐	CN-50-2-546-SYS24-23942-IR	112

APPENDIX 3 A1

~~Test Type I Requirements Tailpipe Emissions after Cold Start~~
~~Test Type II Requirements Tailpipe Emissions at (increased) Idle and Free Acceleration~~
~~Test Type V Requirements Durability of Pollution control Devices~~
Test Type VII Requirements Energy efficiency: CO₂ emissions, fuel consumption, electric energy consumption and electric range

0. Main Requirements

0.1. Requirements according to : Reg. (EU) 134/2014, Annex II, III, VI, VII
Including amendment (EU) 2023/2724

1. Witness details

1.1. Witness : Pan Jianlong
1.2. Location of test : Zhejiang Huachen Inspection and Testing Co., Ltd.
Building 23, No.1336, Hangfu road, Chongfu, Tongxiang,
Jiaxing, Zhejiang, China
1.3. Date of test : 17/12/2024 to 20/11/2024
1.4. Worst Case Rationale : Variant/Version 00/00 tested, to represent other cases
1.5. Tested vehicle : Variant/Version 00/00

1.6. Facility and Equipment Checks

1.6.1. Calibration certificates checked and valid,
recorded in the following table : Conform
1.6.2. All instruments are equipped with identification
label : Yes
1.6.3. Calibration certificates are complete of
calibration-chain with detailed information
regarding primary used. : Yes

Equipment	Serial / Certificate No.	Calibration due*
Dynamometer	- / 2SB24033183621-0001	26/04/2025
Digital wattmeter	211011170366 / 2SB24033183621-0041	26/04/2025
Digital barometer	09M1660 / 1SA24033183621-0045	26/04/2025
Digital temperature-hygrometer	- / 1SA24033183621-0043	26/04/2025

*Specify calibrated date + (interval) or calibration due date.

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2. Annex II - Test results sheet

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2.2.1. (A) Environmental and propulsion unit performance

2.2.1.1. Generic information on environmental performance

2.2.1.1.1. Description of propulsion, propulsion family
and drive-train of test vehicle(s) : See appendix 2-2 and manufacturer information
document
2.2.1.1.2. Environmental step of test vehicle: : Euro 4/ Euro 5 / Euro 5+
2.2.1.1.3. Description of emission test bench(es),
specifications and settings : Not applicable
2.2.1.1.4. Chassis/engine dynamometer(s)
specifications : Type: DPC-30D

2.2.1.1.5.	Inertia (reference) mass and running resistance settings for single/dual roll chassis dynamometer	:	Inertia = 200 kg a=17.6 N b= 0.0230 N/(km/h) ² c= 0
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2.2.1.1.6.	Comprehensive report of road test results for the determination of test bench settings, including coast down times for single/dual roll chassis dynamometer	:	Not applicable
2.2.1.1.7.	Applicable test type I driving schedule: (ECE R40 (with/without EUDC), ECE R47, WMTC stage 1, WMTC stage 2, revised WMTC)	:	WMTC stage 3 (Revised WMTC)
2.2.1.1.8.	Description gearshift prescriptions for environmental testing	:	Not applicable
2.2.1.2.	Test type I: requirements: tailpipe emissions after cold start		
	The following items specific to test type I shall be provided		
2.2.1.2.1.	Description of tested vehicle(s) (prototype(s) or series production, hardware and software levels, VIN)	:	Not applicable
2.2.1.2.2.	Any deviations by test vehicle(s) from data provided in information document, Annex I If yes, please provide list with deviations.	:	Not applicable
2.2.1.2.3.	Type-approval number if not parent vehicle:	:	Not applicable
2.2.1.2.4.	Mileage(s) of test vehicle(s)	:	Not applicable
2.2.1.2.5.	Test fuel(s) used	:	Not applicable
2.2.1.2.6.	Description of test type I measurement methods for hybrid L-category vehicles referred to in Appendix 11 to Annex II to Commission Delegated Regulation (EU) No 134/2014	:	Not applicable
2.2.1.2.7.	Description of test type I measurement methods for gas-fuelled vehicles referred to in Appendix 12 to Annex II to Commission Delegated Regulation (EU) No 134/2014	:	Not applicable
2.2.1.2.8.	Description of test type I measurement methods for vehicles equipped with a periodically regenerating system referred to in Appendix 13 to Annex II to Commission Delegated Regulation (EU) No 134/2014	:	Not applicable
2.2.1.2.9.	Information on regeneration strategy		
	D (number of operating cycles between 2 cycles when regenerative phases occur)	:	Not applicable
	d (number of operating cycles required for regeneration)	:	Not applicable
2.2.1.2.10.	Description of weighting of type I test results as referred to in point 6.1.1.5. of Annex II to Commission Delegated Regulation (EU) No 134/2014 including equation number and weighting factors	:	Not applicable