



AVP, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: 01 478 8430, vozila@avp-rs.si
STSA, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: +386 1 478 8430, vozila@avp-rs.si
37141-041/2019/10

**POTRDILO O EU-HOMOLOGACIJI
EU TYPE-APPROVAL CERTIFICATE**

Sporočilo o:
Communication concerning:

- EU-homologaciji
- *EU type-approval*
- ~~razširitvi EU-homologacije~~
- ~~extension of EU type-approval~~
- ~~zavrnitvi EU-homologacije~~
- ~~refusal of EU type-approval~~
- ~~preklicu EU-homologacije~~
- ~~withdrawal of EU type-approval~~

samostojne tehnične enote: naprave za zmanjševanje hrupa
of a type of STU: noise-abatement device

glede na Priloge IX k Delegirani uredbi Komisije (EU) št. 134/2014, kakor je bila nazadnje spremenjena z Delegirano uredbo Komisije (EU) št. 2018/295
with regard to Annex(es) IX to Commission Delegated Regulation (EU) No 134/2014, as last amended by Commission Delegated Regulation (EU) No 2018/295

Številka EU-homologacije: **e26*134/2014*2018/295G*08138*00**
EU type-approval number:

Razlog za razširitev: /
Reason for extension:

**ODDELEK I
SECTION I**

- | | | |
|-------|---|---|
| 0.7 | Znamke (tovarniška imena proizvajalca):
<i>Make(s) (trade name(s) of manufacturer)</i> | AKRAPOVIC |
| 0.8 | Tip:
<i>Type:</i> | M-HBN002 |
| 0.8.1 | Trgovska imena (če obstajajo):
<i>Commercial name(s) (if available):</i> | / |
| 0.9 | Ime podjetja in naslov proizvajalca:
<i>Company name and adress of manufacturer:</i> | AKRAPOVIC D.D.
MALO HUDO 8A
1295 IVANCNA GORICA
Slovenia |

-
- 0.9.1. Imena in naslovi proizvodnih tovarn:
Name(s) and address(es) of assembly plant(s): AKRAPOVIC D.D.
MALO HUDO 8A
1295 IVANCNA GORICA
Slovenia
- AKRAPOVIČ D.D., PE ČRNOMELJ
ULICA HEROJA STARIHA 24
8340 ČRNOMELJ
Slovenia
- 0.9.2. Ime in naslov zastopnika
proizvajalca (če obstaja):
*Name and address of manufacturer's
representative (if nay):* /
- 0.10. Pri samostojni tehnični enoti,
vozila, za katere je namenjena:
*In the case of seperate technical unit,
vehicle(s) for which is intended for:* KTM
- 0.10.1 Tip:
Type: KTM IS Adventure
(e1*168/2013*00209*)
- 0.10.2 Variante:
Variant(s): vse
all
- 0.10.3 Izvedenke:
Version(s): vse
all
- 0.10.4 Trgovska imena (če obstajajo):
Commercial name(s) (if available): 390 Adventure
250 Adventure
- 0.10.5 Kategorija, podkategorija in
podpodkategorija vozila:
*Category, subcategory and
sub-subcategory of vehicle:* L3e-A2

ODDELEK II
SECTION II

1. Tehnična služba, pristojna za izvajanje preskusov:
Technical service responsible for carrying out the tests: TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
Germany
2. Datum poročil o preskusu:
Date of test report(s): 03.01.2020
3. Številka poročil o preskusu:
Number of test report(s): 19-00075-CM-GBM-00
4. Opombe:
Remarks: glej Dodatek
see Addendum
- 4a. Homologacija je:
The approval is: **podeljena**
granted
- 4a.1. Homologacija se podeli na podlagi člena 40
Uredbe (EU) št. 168/2013, tako da je njena
veljavnost omejena do: ne pride v poštev
*The approval is granted in accordance with Article
40 of Regulation (EU) No 168/2013 and its
validity is thus limited to:* *not applicable*
5. ~~Omejitve veljavnosti:~~
~~*Restrictions of validity:*~~ /
6. ~~Uporabljene opustitve:~~
~~*Waivers applied:*~~ /
- Kraj:
Place: 1000 LJUBLJANA
- Datum:
Date: 10.01.2020
- Ime in podpis:
Name and signature: mag. Tomaž Svetina, inž. dipl. inž. str.
vodja sektorja za vozila



Temu sporočilu je priložen seznam dokumentov, ki so deponirani pri homologacijskem organu, ki je odobril to homologacijo in jih je na zahtevo mogoče dobiti:

glej kazalo opisne dokumentacije št. e08138 Rev.00

The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request:

see index to information package No e08138 Rev.00

Dodatek k potrdilu o EU-homologaciji s številko EU-homologacije:
Addendum to the EU type-approval certificate with EU type-approval number:
e26*134/2014*2018/295G*08138*00

1. **Omejitve uporabe samostojne tehnične enote: naprave za zmanjševanje hrupa:**
Restriction of use of the STU: noise-abatement device:

glej prilogo 2 testnega poročila 19-00075-CM-GBM-00
see enclosure 2 of the test report 19-00075-CM-GBM-00

2. **Posebni pogoji za vgradnjo samostojne tehnične enote: naprave za zmanjševanje hrupa:**
Special conditions for the mounting of the STU: noise-abatement device:

glej proizvajalčeva navodila za vgradnjo
see manufacturer's instruction manual

3. **Opombe:**
Remarks:

/

Ta homologacija se uporablja za tip serijsko izdelanih neoriginalnih izpušnih sistemov za tip motornega kolesa ali njegovih sestavnih delov pod naslednjimi pogoji:

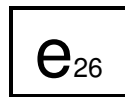
Posamezni proizvodi iz serijske proizvodnje morajo ustrezati najmanj vsem zahtevam Uredbe (EU) št. 168/2013 in Priloge IX k Delegirani uredbi Komisije (EU) št. 134/2014, nazadnje spremenjene z Delegirano uredbo Komisije (EU) št. 2018/295, "Zahteve za preskus tipa IX: raven hrupa".

Priloženo poročilo o preskusu in risbe so sestavni del te homologacije.

Vsak sestavni del neoriginalnega izpušnega sistema, vendar ne deli in cevi za vgradnjo, mora biti čitljivo in trajno označen z:

- znamko (tovarniškim imenom proizvajalca),
- trgovskim imenom,
- homologacijsko oznako.

Temu tipu proizvoda se dodeli naslednja homologacijska oznaka:



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Homologacijska oznaka na proizvodu mora po izvedbi in velikosti ustrezati zahtevam Izvedbene uredbe Komisije (EU) št. 901/2014, nazadnje spremenjene z Izvedbeno uredbo Komisije (EU) št. 2018/295.

S tem homologacijskim znakom so lahko označeni samo tisti proizvodi, ki v celoti ustrezajo homologacijski dokumentaciji.

Oznaka EU-homologacije samostojne tehnične enote ali sestavnega dela mora biti na samostojni tehnični enoti ali sestavnem dele nameščena tako, da je neizbrisna (npr. odtisnjena, jedkana, lasersko vgravirana, samouničljiva nalepka), jasno berljiva in vidna na mestu, kjer se namesti na vozilo, ne da bi bilo treba kateri koli del odstraniti z orodjem.

Proizvod je lahko označen tudi s tujo homologacijsko ali drugo oznako, če s tem ni motena razpoznavnost in čitljivost homologacijske oznake, ki jo je dodelil slovenski homologacijski organ.

Na proizvodu ne sme biti oznak, ki bi lahko privedle do zamenjave z uradno dodeljeno oznako.

Kakršnekoli spremembe na proizvodu so dovoljene samo na podlagi posebnega dovoljenja homologacijskega organa.

Veljavnost homologacije preneha z vrnitvijo ali z odvzemom. Homologacija se odvzame, če pogoji za podelitev in obstoj homologacije ne obstajajo več, če lastnik homologacije krši obveznosti, povezane s homologacijo, oziroma če se ugotovi, da homologirani proizvod ne ustreza več veljavnim predpisom.

Proizvajalec je dolžan stalno kontrolirati kakovost homologiranega proizvoda in njegovo skladnost s homologacijsko dokumentacijo. O tej kontroli je dolžan voditi evidenco in omogočiti vpogled v zapiske nadzornemu organu, ki ga določi homologacijski organ. V primeru ugotovitve neskladnosti s homologacijsko dokumentacijo je proizvajalec dolžan o tem takoj obvestiti homologacijski organ.

Homologacijski organ lahko kadarkoli preverja pravilno izvajanje pooblastil, dodeljenih s to homologacijo, in v ta namen tudi izbira vzorce za ponovni preskus. Stroške takšnih pregledov in presoj skladnosti proizvodnje, se zaračunajo proizvajalcu.

Vsako spremembo oznake proizvajalca, naslova ali proizvodne tovarne oziroma pri homologaciji imenovane pooblaščenice je treba takoj sporočiti homologacijskemu organu.

Pravice, podeljene s to homologacijo, so neprenosljive. Pravice tretjih s to homologacijo niso prizadete.

V primerih, da se proizvodnja ali prodaja proizvoda ne začne v roku enega leta od podelitve homologacije, da se proizvodnja ali prodaja prekine za več kot eno leto oziroma, da se predvideva taka prekinitve, je o tem treba takoj obvestiti homologacijski organ.

O začetku proizvodnje ali začetku prodaje oziroma njihovem ponovnem začetku je treba obvestiti homologacijski organ najkasneje v enem mesecu.

Neupoštevanje zgoraj navedenih določil lahko povzroči odvzem homologacije in se kazensko preganja.

Pravno razlago v zvezi s to homologacijo lahko daje samo homologacijski organ.

10.01.2020



mag. Tomaž Svetina univ.dipl.inž.
vodja sektorja za vozila

This Approval shall apply to non-original exhaust systems for a type of motorcycle or its components from serial production under the following conditions:

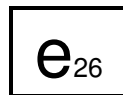
Individual products from serial production shall comply at least with all requirements set out in the Regulation (EU) No 168/2013 and Annex(es) IX to Commission Delegated Regulation (EU) No 134/2014, as last amended by Commission Delegated Regulation (EU) No 2018/295, "Test type IX requirements: sound level".

The attached test report and drawings shall be a constituent part of this Approval.

Each component of the nonoriginal exhaust system, excluding pipes and fitting accessories, shall be marked with a readable and durable:

- *make (trade name of manufacturer),*
- *commercial name,*
- *approval marking.*

This type of product shall be allotted the following approval marking:



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The design and size of the approval marking shall meet the requirements of the Commission implementing Regulation (EU) No 901/2014, as last amended by Commission implementing Regulation (EU) No 2018/295.

Only products which comply with the approval documentation may bear the approval marking.

The EU separate technical unit or component type-approval mark shall be affixed to the separate technical unit or component in a way which is indelible (e.g. stamped, etched, laser-engraved, self-destructing adhesive label), clearly legible and visible in the place at which it is to be fitted to the vehicle without the need to remove any parts with the use of tools.

The product may also be marked with a foreign approval or other marking, provided that the identifiability and readability of the approval marking granted by the Slovenian Type Approval Authority is not affected.

The product shall not bear any markings that may lead to confusion with the officially allotted marking.

Changes of any kind performed on the product shall be subject to special permission by the Slovenian Type Approval Authority.

The Approval will become ineffective when returned or withdrawn. The Approval shall be withdrawn: should the conditions for its granting and existence no longer exist, should the owner of the Approval break his obligations related to the Approval, or when it has been established that the approved product no longer complies with the applicable regulations.

The manufacturer shall regularly inspect the quality of the approved product as well as its conformity with the approval documentation. He shall keep record of this inspection and allow to the surveillance body appointed by the Slovenian Type Approval Authority access to the records. Should any non-conformities be found with respect to the approval documentation, the manufacturer shall immediately inform thereof the Slovenian Type Approval Authority.

Any time, the Slovenian Type Approval Authority may check the correct implementation of the authorizations appointed through this Approval, and for this purpose also select samples for a repeated

test. The costs of such checks and conformity of production assessments are charged to the manufacturer.

Any changes regarding the manufacturer's marking, the address or the production plant, or the authorized person appointed through this Approval, shall be forthwith notified to the Slovenian Type Approval Authority.

The rights granted through this Approval shall be untransferrable. The rights of third persons shall not be affected through this Approval.

In the case where the production or sale of the product does not start within one year after the granting of the Approval, or the production or sale is interrupted for a period longer than one year, or such interruption is foreseen, the Slovenian Type Approval Authority shall be immediately notified.

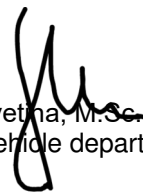
The Slovenian Type Approval Authority shall be notified of the start of production or start of sale, or its restart, within a month's time at the latest.

Non-compliance with above stated provisions may result in withdrawal of the Approval and will be prosecuted.

Legal explanations in relation with this Approval may only be given by the Slovenian Type Approval Authority.

10.01.2020




Tomaž Svetina, M.Sc.Eng.
Head of Vehicle department



KAZALO OPISNE DOKUMENTACIJE e08138
INDEX TO THE INFORMATION PACKAGE e08138

Revision: 00

Homologacijska številka: **e26*134/2014*2018/295G*08138**
Approval number:

Razširitev številka: **00**
Extension number:

Zgodovina homologacije / Opisne dokumentacije:
Type approval / Information package history:

Razširitev / Revizija: Extension / Revision:	Zadeva: Subject:	Datum izdaje: Date of issue:	Skupno št. strani: Total No. of pages:
00/00	Odobritev homologacije Granting of type approval	10.01.2020	31

Poročilo o preskusu: **19-00075-CM-GBM-00**
Test report:

Število strani: **14**
Number of pages:

datum izdaje: **03.01.2020**
date of issue:

datum zadnje spremembe: /
date of latest amendment:

Opisni list/Tehnični opis naprave: **M-HBN002**
Information document/Technical description of the device:

Število strani: **2**
Number of pages:

datum izdaje: **03.01.2020**
date of issue:

datum zadnje spremembe: /
date of latest amendment:

Risba(e)¹:
Drawing(s)¹:

Število strani: **3**
Number of pages:

datum zadnje spremembe: /
date of latest amendment:

Navodila za vgradnjo in uporabo:
Mounting and handling instructions:

Število strani: **11**
Number of pages:

datum zadnje spremembe: /
date of latest amendment:

Ostala dokumentacija:
Other documentation:

Število strani: **1**
Number of pages:



¹ kosovnice, slike, sheme in diagrami / ¹ bill of materials, pictures, schematics and diagrams

**SLOVENIAN TRAFFIC SAFETY AGENCY,
KOTNIKOVA ULICA 19a,
1000 LJUBLJANA,
SLOVENIA**

We, Akrapovič d.d., Malo Hudo 8a. 1295 Ivančna Gorica, Slovenia hereby ask STSA to grant approval against **134/2014*2018/295 EC (G)** for the following product:
Exhaust system for Motorcycles - muffler:

Type: **M-HBN002**

Version: **M-HBN002 01T (SS / Ti / SS)**
M-HBN002 01SS (SS / SS / SS)
M-HBN002 03T (SS / Ti / Ti)
M-HBN002 03SS (SS / SS / Ti)

Manufacturer: **Akrapovič d.d.**
Malo Hudo 8a
1295 Ivančna Gorica
Slovenia

We declare that we have not applied to any other Approval Authority in the EU Member States for this approval.

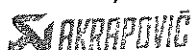
We have requested **TÜV SÜD Auto Service GmbH**, to carry out all testing required by the directive and/or regulation that the approval is sought against and to present the entire documentation for the approval.

Yours sincerely,



Akrapovič d.d.
Uroš Rosa, CEO

Date: 05.07.2019



AKRAPOVIČ d.d.
Malo Hudo 8a, 1295 Ivančna Gorica.



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002

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PRÜFBERICHT TEST REPORT

Nr. / *no.* 19-00075-CM-GBM-00

über die Prüfung zur Bauartgenehmigung einer Nicht-Originalauspuffanlage oder von Einzelteilen hiervon als selbstständige technische Einheit für Krafträder.

about a test regarding a component type-approval for non-original exhaust system or components thereof, as a technical unit for motorcycles

Verordnung / *Regulation* (EU) 134/2014 vom / *dated* 16.12.2013
zuletzt geändert / *last amended* (EU) 2018/295 vom / *dated* 15.12.2017
Kodierung / *Codification* G

zur Ergänzung der Verordnung (EU) Nr. 168/2013 des Europäischen Parlaments und des Rates.
supplementing Regulation (EU) 168/2013 of the European Parliament and the Council.

Genehmigungsstand / <i>Approval status</i>		
<input checked="" type="checkbox"/>	Erteilung einer Typgenehmigung <i>Granting of a type approval</i>	e26*134/2014*2018/295G*08138*00
<input type="checkbox"/>	Nachtrag/Änderung zur Typgenehmigung Nr. <i>Extension/correction to type approval no.</i>	

Gründe der Erweiterung / *Reasons for extension*

Es wird geändert: -
It will be changed: -

Es wird aktualisiert: -
It will be updated: -



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002

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0. Allgemeine Angaben / *General information*

0.1. Fabrikmarke / *Make*: Akrapovic Exhaust System Technology

0.2. Typ / *Type*: M-HBN002

0.2.1. Ausführungen / *Variants*

Ausführungen / <i>Variants</i>	Material / <i>Material</i>		
	Rohre / <i>Tubes</i>	Außenmantel / <i>Sleeve</i>	Endkappe / <i>End cap</i>
M-HBN002 01T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	VA / <i>Stainless steel</i>
M-HBN002 01SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>
M-HBN002 03T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HBN002 03SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>

Die Ausführungen unterscheiden sich in der Verwendung verschiedener Werkstoffe. Der konstruktive Aufbau ist gleich. Das akustische Verhalten ist gleichwertig.

The variants vary because different materials are used. The basic construction remains the same. The acoustic behaviour is similar.



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002 Seite / *Page* 3/7

- 0.3. Name und Anschrift des Herstellers /
Name and address of manufacturer: Akrapovic d.d.
Malo Hudo 8a
1295 Ivančna Gorica
Slovenia
- 0.4. Name und Anschrift des Beauftragten /
Name and address of authorized agent: entfällt / *n.a.*
- 0.5. Nr. des Beschreibungsbogens /
No. of information document: M-HBN002
Ausgabedatum / *Date*: 03.01.2020
- 1.0. Klasse der Fahrzeuge, für die die
Anlage bestimmt ist / *Class of the
vehicles the unit is used for*: L3e
- 1.1. Beschreibung der Fahrzeuge, für
die die Einrichtung bestimmt ist /
*Description of the vehicles
the unit is used for*: siehe Anlage 2 / *notice enclosure 2*

2. Angaben zum Prüfobjekt / *Composition of the separate technical unit*

- 2.1. Art der Technischen Einheit:
Kind of technical unit: Siehe Anlage Technische Dokumentation
See Enclosure, Technical documentation
- 2.2. Ort der Kennzeichnung/
Place of marking: Lasergravur auf Endkappe / Typschild aufgenietet
Engraved by laser / plate fixed with rivets
- 2.3. Zusammenstellung der technischen Einheit /
*Composition of the separate
technical unit*: siehe Anlage 1 / *notice enclosure 1*
- 2.4. Lage und Richtung der Auspuffmündung:
Position and direction of the tail pipe: rechts seitlich nach hinten
at the right side to the rear
- 2.5. Prüfmuster eingegangen am:
Test samples submitted for testing at: 24.10.2019



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002

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3. Prüfprotokoll / *Test report*

Versuchsreihe A / *Tests series A*

3.1. Fahrzeug lfd. Nr. 1) / *Vehicle no. 1)*

- 3.1.1. Typ / *Type*: KTM IS Adventure
3.1.1.1 Variante / Version / *Variant / Version*: A / -
3.1.1.2 Fahrzeugkategorie / *Category*: L3e-A2
3.1.1.3 Handelsbezeichnung / *Model*: KTM 390 Adventure
3.1.2. Hersteller / *Manufacturer*: KTM AG
3.1.3. Genehmigungs-Nr. / *Homologation no.*: e1*168/2013*00209*
3.1.3.1 Nachtrag bzw. Erweiterung / *Extension*: 00
3.1.4. Fahrzeugidentifizierungsnummer /
Vehicle identification no.: VBKJGJ407KC200003
3.1.5. Baujahr / *Year of manufacture*: 2019
3.1.6. km-Stand / *Kilometers*: 76
3.1.7. Zul. Gesamtgewicht / *total weight*: 375 kg

3.2. Antriebsmaschine / *Engine*

- 3.2.1. Hersteller / *Manufacturer*: KTM
3.2.2. Typ / *Type*: 938
3.2.3. Hubraum / *Engine capacity*: 373 cm³
3.2.4. Höchstleistung / *engine net power*: 32 kW bei / *at* 9000 min⁻¹
3.2.5. max. Drehmoment / *net torque*: 36 Nm bei / *at* 7000 min⁻¹

3.3. Kraftübertragung / *Transmission*

- 3.3.1. Art der Kraftübertragung /
Kind of transmission: mechanisch / *mechanical*
3.3.4. Getriebe / *Gearbox*: manuell / *manual*
3.3.5. Übersetzungsverhältnisse /
Transmission ratios:
primär / *primary* / sekundär / *secondary* 2,667 / 3,0
Höchstgeschwindigkeit / *Top speed*: 160 km/h
Reifen / *Tires*: Continental TKC 70
vorne / *front* 100/90 19 57T
hinten / *rear* 130/80 17 65T

3.4. Zusammenbau der Auspuffanlage / *Assembly of the exhaust system*

(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1)
Versuchsreihe A / *Tests series A*: 1)2)



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002

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3.5. Messung der Geräuschwerte / *Acoustic measurements*

- 3.5.1. Hersteller des Messgerätes /
Manufacturer of test equipment: MÜLLER-BBM
- 3.5.2. Typ des Messgerätes /
Type of the test equipment: PAK MK II Configuration
- 3.5.3. Fahrgeräusch, Standgeräusch /
Drive by noise, stationary noise:

nach ECE-R 41.04 /
according ECE-R 41.04
- 3.5.4. Beladungszustand bei der Fahrgeräuschmessung /
Load condition during drive by test: Leergewicht zuzüglich 75 kg Fahrer /
Unloaded weight plus 75 kg driver
- 3.5.5. Abweichung bei Kalibrierung /
Deviation at calibration: < 0.2 dB(A)

3.6. Messung der Leistung / *Power measurement*

- 3.6.1. Messung der Leistungskurve mit Nicht-Originalauspuffanlage /
Testing of max. power with non-original exhaust system:

Die gemessene Nennleistung und die zugehörige Drehzahl liegen im Toleranzbereich von 5% im Vergleich zu den mit der Originalauspuffanlage gemessenen Werten. (siehe Anlage) /
The tested max. power and the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)
- 3.6.2. Messung der Höchstgeschwindigkeit mit Nicht-Originalauspuffanlage/
Testing of top speed with non-original exhaust system:

Entfällt, da Fahrzeugklasse: L3e
Not applicable, because vehicle class: L3e

3.7. Konditionierung der Auspuffschalldämpferanlage / *Conditioning*

durch Druckschwingungen / *by pulsation*



3.8. Messung der Schadstoffemissionen / *Pollution Test*

Auf eine Messung des Abgasverhaltens konnte verzichtet werden, da der original Katalysator unverändert im Abgassystem verbleibt. Eine Verschlechterung des Abgasverhaltens ist nicht zu erwarten.

The Pollution test was not necessary because the original catalytic converter remains without any changes in the exhaust system. A degradation of catalyst efficiency is not expected.

3.9. Ergebnisse / *Test results*

Die Ergebnisse der Prüfungen hinsichtlich / *The results of*

- 3.9.1. Geräusche / *Noise testing*
- 3.9.2. Leistung / *Power measurement*
- 3.9.3. Höchstgeschwindigkeit / *Top speed*
- 3.9.4. Abgasverhalten / *Pollution test*

sind der als Anlage beigefügten Tabellen zu entnehmen /
are attached in the enclosure.

Aufgrund der Messung mit dem/n o.g. Fahrzeug/en können auch die in Anlage 2 aufgeführten Krafräder die die gleiche Serien- Auspuffanlage besitzen und gleiche bzw. geringere Motorleistung haben, mit in den Verwendungsbereich aufgenommen werden/
All motorcycles with the same serial exhaust system and same or less performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.

- 3.9.5. Die beschriebene Nicht-Originalauspuffanlage / Technische Einheit darf an den in der Anlage 2 aufgeführten Kraftfahrzeugen unter den dort genannten Bedingungen verwendet werden. /
The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.
- 3.9.6. Die allgemeinen Spezifikationen gemäß (EU)134/2014; Anhang IX; Anlage 2; Abschnitt 3.5.1. werden durch die Nicht-Originalauspuffanlage als technische Einheit erfüllt. /
The general specifications regarding (EU)134/2014; Annex IX; Appendix 2; Clause 3.5.1. are fulfilled by the non-original exhaust system as technical unit.



Techn.Bericht Nr. / *Techn. Report No.*: 19-00075-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia

Typ / *Type*: M-HBN002

Seite / *Page* 7/7

4. Anlagen / *Enclosures*

Anlage 1, Teile der Nicht-Originalauspuffanlage
Enclosure 1, Composition of the non original exhaust system
Anlage 2, Verwendungsbereich
Enclosure 2, Field of application
Anlage 3, Ergebnis der Prüfungen
Enclosure 3, Test results
Anlage, Leistungskurve
Enclosure, Performance diagram
Anlage, Protokoll Geräuschmessung
Enclosure, protocol noise test
Beschreibungsbogen
Information Document

5. Schlussbescheinigung / *Summary*

Der angegebene Beschreibungsbogen und der darin beschriebene Typ entsprechen der genannten Prüfgrundlage. Der ungünstigste Fall wurde entsprechend Prozessbeschreibung „Erstellung von Gutachten“ bestimmt.

Der Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes ist nur nach schriftlicher Genehmigung des Prüflaboratoriums zulässig
The information folder and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

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München, 03.01.2020



Dipl.-Ing. (FH) Max Höhler
Prüfingenieur / *The Expert*



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ANLAGE 1
ENCLOSURE 1

zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:

19-00075-CM-GBM-00
M-HBN002
Akrapovic, Malo Hudo 8a
1295 Ivančna Gorica, Slovenia

Teile der Nicht-Originalauspuffanlage + Originalteile/
Composition of the original exhaust system + original parts

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Lfd. Nr. / No.	Einzelteile, Abmessungen in mm / <i>Components parts, dimensions in mm</i>	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil / <i>Dimensions of the part in mm or original part / replacement part</i>	Teilenummer bzw. Genehmigungsnummer / <i>Part no. or homologation no.</i>
1)	Krümmerröhre, Vorschalldämpfer mit Katalysator / <i>header pipes, presilencer with catalytic converter</i>	Originalteile / <i>original parts</i>	-
2)	Schalldämpfer / <i>silencer</i> (Austrittsrohr / <i>outlet pipe</i> Ø 38)	pentagonal / <i>pentagonal</i> 105,4 x 133,1 Länge ohne Endkappen / <i>length without endcaps</i> 250	M-HBN002 e26*08138*G E26 92R-01 8138

**ANLAGE 2
ENCLOSURE 2**

**zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:**

**19-00075-CM-GBM-00
M-HBN002
Akrapovic, Malo Hudo 8a
1295 Ivančna Gorica, Slovenia**

Verwendungsbereich (Fahrzeugdaten) / Field of application

Seite / Page 1/1

Lfd. Nr.	Hersteller	Fabrikmarke	Handelsbezeichnung	Fahrzeugtyp ab Genehmigung Nr.	Var. Vers.	Motortyp 4 Takt	Hubraum in cm ³	Nennleistung kW/min ⁻¹	Sonstige bestimmende Merkmale	Anordnung entspr. Anl. 1 lfd. Nr.
No. of vehicle	Manufacturer	Trade mark	Commercial description	Vehicle type beginning with no. of homologation	Var. Vers.	Engine type 4 Stroke	Engine capacity in cm ³	max. engine power kW/min ⁻¹	Additional remarks	Composition reg. enclosure no. 1
1)	KTM AG	KTM	390 Adventure	KTM IS Adventure e1*168/2013*00209*	alle /	938	373	32/9000	mit Kat.*) / with cat.	1)2)
2)			250 Adventure		all	937	249	22/9000		

*) Die serienmäßigen Katalysatoren bleiben unverändert im Abgassystem. Eine Verschlechterung des Abgasverhaltens ist nicht zu erwarten. /
The original catalytic converter remains in the exhaust system. A degradation of catalyst efficiency is not expected.



**ANLAGE 3
ENCLOSURE 3**

zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:

**19-00075-CM-GBM-00
M-HBN002
Akrapovic d.d.,
1295 Ivančna Gorica, Slovenia**

Ergebnis der Prüfungen / Test results

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Lfd.Nr.	Leistung		Vmax	Vmax	Fahrgeräusche in dB(A) / Sound levels driving vehicle in dB(A)					Standgeräusche in dB(A) / Sound levels stationary vehicle in dB(A)			
	Serie kW/min ⁻¹	Austausch kW/min ⁻¹	Serie km/h	Aus- tausch km/h	gemes- sen in Gang	Grenz- wert **)	Serie gemes- sen	Austausch gemessen	bei km/h	lt. Fzg. BE	Serie gemes- sen /	Austausch gemessen	bei min ⁻¹
No. of vehicle	Engine power original kW/min ⁻¹	Engine power non original kW/min ⁻¹	Vmax original km/h	Vmax non original km /h	measured in gear ratio	Limit Value **) SL _{EU4}	Original mea- sured L _{urban}	Non original measured L _{urban}	at km/h	Vehicle type hom.	Original mea- sured	Non original measured	at min ⁻¹
1) A*	32/9000	32/9000	-	-	3	77	74	74	50	84	86	85	4500

*) Versuchsreihe / test series

**) Grenzwert der Richtlinienfassung, die bei Erteilung der Fahrzeuggenehmigung Gültigkeit hatte /
Limit value of directive which was valid by vehicle type homologation

1. Vehicle

1.1 Manufacturer: KTM
 1.2 Vehicle Ident. Number: VBKJGJ407KC200003
 1.3 Commercial name / Type: 390 Adventure
 1.4 Type: KTM IS Adventure
 1.5 Variant: ---
 1.6 Version: ---
 1.7 Class: L3e-A2
 1.8 Type approval number: without (Prototype)
 1.9 Vehicle kerb weight (m_{kerb}) [kg]: 174
 1.10 Mass of the vehicle in running order (m_{ro}) [kg]: 249
 1.11 Vehicle test mass (m_t) [kg]: 248,5
 1.12 Technically permissible max. laden mass (M) [kg]: ---
 1.13 Power to mass ratio index (PMR): 128,5
 1.14 Vehicle length [m]: 2,1
 1.15 Milage [km]: 76

2. Engine

2.1 Manufacturer / engine code: KTM
 2.2 Model: 9-938*14931
 2.3 Cycles: four stroke two stroke n.a.
 2.4 Number and arrangement of cylinders: 1 / Single
 2.5 Working principle: positive ignition compression ignition electrical hybrid
 2.6 Rated power [kW / min⁻¹]: 32 / 9000
 2.7 Idle engine speed [min⁻¹]: 1650
 2.8 Cylinder capacity [cm³]: 390

3. Transmission

3.1 Type: manual gearbox automatic gearbox Type: ---
 3.2 No. of gears: 6
 3.3 Ratio (Prime : Secondary) --- : ---



4. Equipment

4.1	Pre Catalyst(s) Make / type (left/right):	---	/	---	/	---
4.2	Catalyst(s) Make / type (left/right):	KTM	/	---	/	n.a.
4.5	Front exhaust silencer(s) Make / type (left/right):	KTM	/	---	/	KTMISV04
4.6	Middle exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.7	Rear exhaust silencer(s) Make / type (left/right):	Akrapovic	/	---	/	M-HBN002
4.8	Tail pipe(s) Make / type (left/right):	Akrapovic	/	---	/	D=38mm
4.9	Exhaust Flap(s) Make / type (left/right):	---	/	---	/	---
4.13	Tyres	Axle 1		Axle 2		
	Manufacturer:	Continental		Continental		
	Type:	TKC 70		TKC 70		
	Size:	100/90 -19 57T		130/80 -17 65T		
	Tyre pressure [bar]:	2,0		2,0		
	Tyre tread depth [mm]:	>4		>4		

5. Measurements

5.1 Conditions

Passby Parameter	Driving conditions	i	i+1	Calculation of the acceleration/factors
Reference acceleration $a_{wot\ ref}$ [m/s ²]:	Gear:	3	---	$a_{wot\ ref} = 3.33 * \log(PMR) - 4.16$
-10% Reference acc. $a_{wot\ ref\ min}$ [m/s ²]:	test acceleration $a_{wot\ test}$ [m/s ²]:	3,15	---	$k = n.a.$
+10% Reference acc. $a_{wot\ ref\ max}$ [m/s ²]:	aver. vehicle velocity when ref. point at AA':	40,3	---	$k_p = (1 - (a_{urban}/a_{wot\ test}))$
Target acceleration a_{urban} [m/s ²]:	aver. vehicle velocity when ref. point at PP':	49,5	---	$a_{wot\ i} = ((v_{BB'}/3.6)^2 - (v_{AA'}/3.6)^2) / (2 * (20+1))$
Gear weighting factor k_g :	aver. vehicle velocity when ref. point at BB':	57,5	---	$a_{wot\ i+1} = n.a.$
Partial power factor k_p :	Operating mode:	without		$a_{urban} = 1.28 * \log(PMR) - 1.19$
Test speed v_{test} at PP' (± 1) [km/h]:	Gearbox:	Locked		Evaluation: AA' - BB'

5.2 Measurement results pass by noise

Gear used	Run	Mode	acc. point ⁽¹⁾ [m]	A-A'		P-P'		B-B'		$a_{wot\ test}$ [m/s ²]	Sound level L ⁽²⁾		L ⁽³⁾ _{aver}	
				v [km/h]	n [rpm]	v [km/h]	n [rpm]	v [km/h]	n [rpm]		left [dB(A)]	right [dB(A)]	li [dB(A)]	re [dB(A)]
3	3	wot ₍₃₎	0,0	40,5	4045	49,5	4856	57,5	5695	2,91	76,6	77,0	77,0	77,2
	4			40,4	4073	49,7	4859	57,8	5721	2,98	77,3	77,2		
	7			40,1	3965	49,2	4814	57,3	5688	2,92	77,0	77,4		
	10	crs ₍₃₎		49,7	4809	50,0	4826	50,0	4833	---	70,5	70,7	70,8	70,7
	12			49,9	4822	50,3	4836	50,1	4819		70,9	70,5		
	14			49,5	4713	49,7	4804	49,9	4740		70,9	70,8		
-	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---			---	---	---	---	---	---	---	---	---	---	
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	---			---	---	---	---	---	---	---	---	---	---	---

1) Acceleration point according Line A-A'; 2) values reduced by 1 dB(A); Numbers written in italics a corrected acc. to Annex3, Pt. 2.1; 3) Intermediate Results of each side of the vehicle

$[L_{wot\ rep} = L_{wot\ (i+1)} + k * (L_{wot\ (i)} - L_{wot\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]
 $[L_{crs\ rep} = L_{crs\ (i+1)} + k * (L_{crs\ (i)} - L_{crs\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]

5.3 Results

	Gear		L _{rep} wot	L _{rep} crs	L _{wot} max limit	Test result L _{urban} [dB(A)]
	i [dB(A)]	i+1 [dB(A)]				
L _{wot}	77,2	---	77,2	70,8	82,0	74,1
L _{crs}	70,8	---				

Calculation of L _{urban} (PMR > 25)
$[L_{urban} = L_{wot\ rep} - k_p * (L_{wot\ rep} - L_{crs\ rep})]$
$[L_{urban} = 77,2 - 0,49 * (77,2 - 70,8)]$



5.4 Limits

Category	Power-to-mass ratio index (PMR)	Limit value for L _{urban} [dB(A)]	applicable Limit value
First category	PMR ≤ 25	73	
Second category	25 < PMR ≤ 50	74	
Third category	PMR > 50	77 ^(a)	X

(a) For motorcycles tested in second gear only in Annex 3, the limit value is increased by 1dB(A) until the date in Paragraph 12.7. Data for affected vehicles shall be studied, and discussions shall be made in case of further extension.

5.5 Sound level of stationary vehicle

Operation mode: without

Measuring results	left	right
	[dB(A)]	[dB(A)]
1 st Run	---	84,8
2 nd Run	---	85,6
3 rd Run	---	85,1
4 th Run	---	---
average Value	---	85,2

Engine speed [rpm]	Target engine speed	
	4500	
X		n = 50% S (S > 5000 min-1)

Result [dB(A)]	85
-----------------------	-----------

5.5.1 Sound level of stationary vehicle in different operation modes

Operation mode	Result [dB(A)]
---	---
---	---
---	---
---	---
---	---
---	---

Engine speed [rpm]	Target engine speed	
		n = 50% S (S > 5000 min-1)

6. **Weather conditions**

Air temperature [°C]:	22,9
Surface temperature [°C]:	25,9
Air pressure [mbar]:	993,8

Air humidity [%]:	68
Wind speed [m/s]:	0,6
Wind direction [°]:	217,9

7. **General Requirements**

Ambient noise level	
before Measurement [dB(A)]:	55,0
after Measurement [dB(A)]:	55,0

Calibration level (Target) [dB(A)]:	94,0
Calibration level Micro 1 [dB(A)]:	94,0
Calibration level Micro 2 [dB(A)]:	94,0

- 8. **Test Standard:** UN-ECE-R41.04, Supp. 6, Annex 3
- 9. **Date / place of test:** 24.10.2019 / Akrapovic d.d., Precna (SI)
- 10. **Expert:** Wibmer Chr.
- 11. **Remarks:** Slip on System
Insert D= 38mm



Item No.	(Sub) categories	Detailed information
B.		General information concerning systems, components or separate technical units
0.7.	L1e — L7e	Make(s) (trade name(s) of manufacturer): AKRAPOVIC Exhaust System Technology
0.8.	L1e — L7e	Type: M-HBN002
0.8.1.	L1e — L7e	Commercial name(s) (if available): n.a.
0.8.2.	L1e — L7e	Type-approval number(s) (if available): e26*134/2014*2018/295G*08138*00
0.8.3.	L1e — L7e	Type-approval(s) issued on (date, if available): n.a.
0.9.	L1e — L7e	Company name and address of manufacturer: Akrapovic d.d. Malo Hudo 8a 1295 Ivančna Gorica Slovenia
0.9.1.	L1e — L7e	Name(s) and address(es) of assembly plants: n.a.
0.9.2.	L1e — L7e	Name and address of manufacturer's authorised representative, if any: n.a.
0.10.		Vehicle(s) for which the system/separate technical unit is intended for:
0.10.1.	L1e — L7e	Type: see Technical Report
0.10.2.	L1e — L7e	Variant: see Technical Report
0.10.3.	L1e — L7e	Version: see Technical Report
0.10.4.	L1e — L7e	Commercial name(s) (if available): see Technical Report
0.10.5.	L1e — L7e	Category, subcategory and sub-subcategory of vehicle: see Technical Report
C.		General information concerning vehicle, systems, components or separate technical units
0.12.		Conformity of production
0.12.1.	L1e — L7e	Controlled by ISO 9001:2008 Quality Management System certified by TÜV SÜD Management Service GmbH Registration no.: 12 100/104 31148 TMS
1.		GENERAL CONSTRUCTION CHARACTERISTICS
1.8.		Propulsion unit performance
1.8.1.	L3e, L4e, L5e, L7e-A, L7e-B2	Declared maximum vehicle speed: km/h see Technical Report
1.8.2.	L1e, L2e, L6e, L7e-B1, L7e-C	Maximum design vehicle speed: and gear in which it is reached: n.a.
1.8.3.	L1e — L7e	Maximum net power combustion engine: . kW at . min ⁻¹ at A/F ratio: see Technical Report
1.8.4.	L1e — L7e	Maximum net torque combustion engine: . Nm at . min ⁻¹ at A/F ratio: see Technical Report
1.8.5.	L1e — L7e	Maximum continuous-rated power electric motor (15/30 minutes power): n.a.
1.8.6.	L1e — L7e	Maximum continuous-rated torque electric motor: Nm at min ⁻¹ n.a.
1.8.7.	L1e — L7e	Maximum continuous total power for propulsion(s): kW. at ... min ⁻¹ at A/F ratio: n.a.
1.8.8.	L1e — L7e	Maximum continuous total torque for propulsion(s): Nm at min ⁻¹ at A/F ratio: n.a.
1.8.9.	L1e — L7e	Maximum peak power for propulsion(s): kW at min ⁻¹ at A/F ratio: n.a.
4.		GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE
4.0		General information on environmental and propulsion performance
4.0.1.	L1e — L7e	Environmental step: Euro (4)
4.0.2.	L1e — L7e	Fuel consumption: see WVTA
4.0.3.	L1e — L7e	CO ₂ emissions: see WVTA
4.0.4.	L1e — L7e	Energy consumption: n.a.
4.0.5.	L1e — L7e	Electric range: n.a.
4.0.6.		Sound level
4.0.6.1.	L1e — L7e	Limit value for L _{urban} : see Technical Report
4.4.	L1e — L7e	Additional information on environmental and propulsion unit performance
4.4.4.	L1e — L7e	All additional technical information according to UN Regulation No. 92, are mentioned in the Technical Report or shown in the attachments.



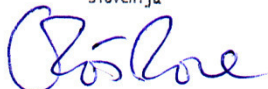
Information Document M-HBN002

relating to EU type-approval of a noise-abatement device as a STU

TÜV SÜD Auto Service Technical Report: 19-00075-CM-GBM-00

Anlage <i>Enclosure</i>	Zeichnung Nr. <i>Drawing no.</i>	Datum <i>Date</i>	Seiten <i>Pages</i>
Zeichnung Schalldämpfer <i>Drawing silencer</i>	M-HBN002	28.10.2019	1
Stückliste <i>Part list</i>	M-HBN002	-	1
Zusammenstellungszeichnung <i>Assembly drawing</i>	KTM 390 Adventure, 250 Adventure	-	1
Montageanleitung <i>Installation instructions</i>	KTM 250 Adventure KTM 390 Adventure	01/2020	10
ASEP Bestätigung <i>Statement of compliance ASEP</i>	-	04.11.2019	1

 **AKRPOVIČ**, d.d.
Malo Hudo 8a, 1295 Ivančna Gorica,
Slovenija



Rosa Uroš, Managing Director

03.01.2020

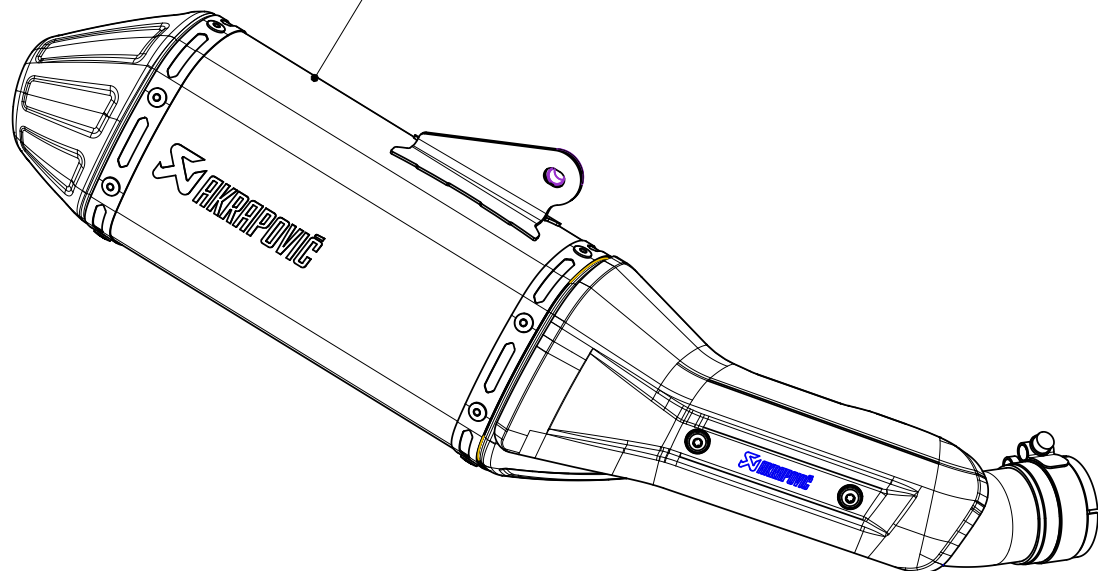


Slip-ON line/ EC; ECE Type approval

KTM 390 ADVENTURE, 250 ADVENTURE

Product code: S-KTM3SO4-HBNT

M-HBN002
e26*08138*G
E26 92R-01 8138



Original Parts
with Catalytic Converter

