



CERTIFIKAT O ECE-HOMOLOGACIJI
ECE COMPONENT TYPE-APPROVAL CERTIFICATE

Sporočilo o podeljeni homologaciji za tip vozila glede na tip nadomestnega sistema za dušenje zvoka NORESS ali sestavnega dela v skladu s Pravilnikom št. 92 R, Amandma 01, Dodatek 02

Communication concerning approval granted of a vehicle type with regard to a type of NORESS or component thereof pursuant to Regulation No. 92 R, Amendment 01, Supplement 02

Homologacijska št.: **E26 92 R 01/02 8146**
Approval No.:

Razširitev št.: **00**
Extension No.:

- | | |
|--|--|
| 1. Blagovno ime ali znamka motocikla:
<i>Trade name or mark of the motorcycle:</i> | Husqvarna |
| 2. Tip motocikla:
<i>Motorcycle type:</i> | HQV 401 (e1*168/2013*00064*) |
| 3. Ime in naslov proizvajalca:
<i>Manufacturer's name and address:</i> | KTM AG
Stallhofnerstraße 3
AT-5230 Mattighofen
Austria |
| 4. Če pride v poštev, ime in naslov predstavnika proizvajalca:
<i>If applicable, name and address of manufacturer's representative:</i> | / |
| 5. Motor
<i>Engine</i> | |
| 5.1. Proizvajalec:
<i>Manufacturer:</i> | KTM AG |
| 5.2. Tip:
<i>Type:</i> | glej poročilo o preskusu 19-00097-CM-GBM-00
<i>see the test report 19-00097-CM-GBM-00</i> |
| 5.3. Model:
<i>Model:</i> | / |
| 5.4. Največja nazivna moč:
<i>Rated maximum net power:</i> | 31 kW / 9000 min ⁻¹ |
| 5.5. Vrsta motorja:
<i>Kind of engine:</i> | na prisilni vžig
<i>positive-ignition</i> |

5.6.	Način delovanja: <i>Cycles:</i>	štiritaktni <i>four-stroke</i>
5.7.	Prostornina valja: <i>Cylinder capacity:</i>	373 cm ³
6.	Menjalnik <i>Transmission</i>	
6.1.	Vrsta menjalnika: <i>Type of transmission:</i>	ročni menjalnik <i>manual transmission</i>
6.2.	Število prestav: <i>Number of gears:</i>	6 prestav <i>6 gears</i>
7.	Oprema <i>Equipment</i>	
7.1.	Dušilnik zvoka <i>Exhaust silencer</i>	
7.1.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	AKRAPOVIC D.D.
7.1.2.	Model: <i>Model:</i>	/
7.1.3.	Tip: <i>Type:</i>	M-HCUFG002
	v skladu s številko risbe: <i>in accordance with drawing No.:</i>	M-HCUFG002_HOM_Muffler
7.2.	Dušilnik zvoka na sesalni strani <i>Intake silencer</i>	originalen <i>original</i>
7.2.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	AKRAPOVIC D.D.
7.2.2.	Model: <i>Model:</i>	/
7.2.3.	Tip: <i>Type:</i>	/
	v skladu s številko risbe: <i>in accordance with drawing No.:</i>	/
8.	Uporabljene prestave za izvajanje meritev v vožnji: <i>Gears used for test of motor cycle in motion:</i>	3 in 4 <i>3rd and 4th gear</i>
9.	Končno prestavno razmerje(a): <i>Final drive ratio(s):</i>	2,667 / 3,000
10.	ECE homologacijska številka pnevmatik(e): <i>ECE type approval number of tyre(s):</i>	ni navedeno <i>no specification</i>

Če ni na voljo, navesti naslednje podatke:
If not available, the following information shall be provided:

10.1. Proizvajalec pnevmatik: <i>Tyre manufacturer:</i>	1. os: Pirelli, 2. os: Pirelli <i>1st axle: Pirelli, 2nd axle: Pirelli</i>
10.2. Trgovska oznaka(e) tipa pnevmatik (po oseh), (npr: tovarniška oznaka, hitrostni razred in razred nosilnosti): <i>Commercial description(s) of the type of tyre (by axle), (e.g. trade name, speed index, load index):</i>	1. os: Scorpion Rally STR Hitrostni razred: /, Razred nosilnosti: / 2. os: Scorpion Rally STR Hitrostni razred: /, Razred nosilnosti: / <i>1st axle: Scorpion Rally STR Speed index: /, Load index: / 2nd axle: Scorpion Rally STR Speed index: /, Load index: /</i>
10.3. Velikost pnevmatik (po oseh): <i>Tyre size (by axle):</i>	1. os: 110/70 R17 54H 2. os: 150/60 R17 66H <i>1st axle: 110/70 R17 54H 2nd axle: 150/60 R17 66H</i>
10.4. Druge homologacijske številke (če so na voljo): <i>Other type approval number (if available):</i>	/
11. Mase <i>Masses</i>	
11.1. Največja tehnično dovoljena masa: <i>Maximum permissible gross weight:</i>	355 kg
11.2. Testna masa: <i>Test mass:</i>	232 kg
11.3. Indeks razmerja moči in mase (PMR): <i>Power to mass ratio index (PMR):</i>	134,8
12. Dolžina vozila: <i>Vehicle length:</i>	2,1 m
12.1. Referenčna dolžina l_{ref} : <i>Reference length l_{ref}:</i>	2,1 m
13. Hitrost vozila pri meritvah v prstavi (i) <i>Vehicle speeds of measurements in gear (i)</i>	
13.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):</i>	39,5 km/h
13.2. Dolžina pred začetkom pospeševanja za prestavo (i): <i>Pre-acceleration length for gear (i):</i>	0 m
13.3. Hitrost vozila v_{pp} (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed v_{pp} (average of 3 runs) for gear (i):</i>	49,5 km/h

13.4. Hitrost vozila $v_{BB'}$ (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed $v_{BB'}$ (average of 3 runs) for gear (i):</i>	59,3 km/h
14. Hitrosti vozila pri meritvah v prestavi (i+1) (če pride v poštev) <i>Vehicle speeds of measurements in gear (i+1) (if applicable)</i>	
14.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.2. Dolžina pred začetkom pospeševanja za prestavo (i+1): <i>Pre-acceleration length for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.3. Hitrost vozila $v_{PP'}$ (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed $v_{PP'}$ (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.4. Hitrost vozila $v_{BB'}$ (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed $v_{BB'}$ (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
15. Pospeški so izračunani med linijami AA' in BB'/PP' in BB' <i>Accelerations are calculated between lines AA' and BB'/PP' and BB'</i>	
15.1. Opis delovanja naprav za stabilizacijo pospeševanja (če pride v poštev): <i>Description of functionality of devices used to stabilize the acceleration (if applicable):</i>	ne pride v poštev <i>not applicable</i>
16. Ravni hrupa v vožnji <i>Noise levels of moving vehicle</i>	
16.1. Rezultati merjenja pri polnem plinu L_{wot} : <i>Wide-open-throttle test result L_{wot}:</i>	77,8 dB(A)
16.2. Rezultati merjenja v vožnji L_{crs} : <i>Constant speed test results L_{crs}:</i>	71,8 dB(A)
16.3. Delni faktor moči k_p : <i>Partial power factor k_p:</i>	0,47
16.4. Končni rezultat merjenja L_{urban} : <i>Final test result L_{urban}:</i>	75,0 dB(A)

17. Raven hrupa v mirovanju
Noise level of stationary vehicle
- 17.1. Pozicija in smer mikrofona
(skladno z dodatkom 2, Priloga 3,
pravilnika ECE 41 R, amandma 04):
*Position and orientation of microphone
(according to Appendix 2 of Annex 3 of 04
series of regulation No. 41):*
- 17.2. Rezultat merjenja v mirovanju:
Test result for stationary test:
18. Dodatne določbe za emisije hrupa:
Additional sound emission provisions:
19. Referenčna skladnost podatkov v uporabi
In-use compliance reference data
- 19.1. Za meritev izbrana prestava (i) ali,
izbrana lega izbirnika prestave,
pri vozilih z varibalnim menjalnikom:
*Gear (i) or, for vehicles tested with non-locked
gear ratios, the position of the gear selector chosen
for the test:*
- 19.2. Dolžina pred začetkom pospeševanja l_{PA} :
Pre-acceleration length l_{PA} :
- 19.3. Hitrost vozila na začetku pospeševalnega cikla
(povprečje 3 pospeševanj) za prestavo (i):
*Vehicle speed at the beginning of the period
of acceleration (average of 3 runs) for gear (i):*
- 19.4. Raven zvočnega tlaka $L_{wot(i)}$:
Sound pressure level $L_{wot(i)}$:
20. Datum predložitve vozila v postopek homologacije:
Date of submission of vehicle for approval:

glej točko 3.5.3. poročila o preskusu
19-00097-CM-GBM-00

see point 3.5.3. of the test report
19-00097-CM-GBM-00

85 dB(A) / 4500 min⁻¹

glej točko 3.5.3. poročila o preskusu
19-00097-CM-GBM-00 in
priložene risbe
see point 3.5.3. of the test report
19-00097-CM-GBM-00 and
attached drawings

3

3rd gear

0 m

39,5 km/h

78,4 dB(A)

28.11.2019

21. Tehnična služba odgovorna za homologacijske preskuse:
Technical service responsible for conducting approval tests: TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
Germany
22. Datum poročila o preskusu, ki ga je izdala ta služba:
Date of test report issued by that Service: 13.12.2019
23. Številka poročila o preskusu, ki ga je izdala ta služba:
Number of test report issued by that Service: 19-00097-CM-GBM-00
24. Homologacija:
Approval: **podeljena**
granted
25. Mesto homologacijske oznake na vozilu:
Position of approval mark on the vehicle: vgravirano z laserjem / tablica
pritrjena s kovicami
engraved by laser / plate fixed with rivets
26. Kraj:
Place: 1000 LJUBLJANA
27. Datum:
Date: 10.01.2020
28. Podpis:
Signature: 
mag. Tomaž Svetina, univ. dipl. inž.
vodja sektorja za vozila
29. 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. E8146 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 E8146 Rev.00



Ta homologacija se uporablja za tip serijsko izdelanih neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) ali njegovih sestavnih delov pod naslednjimi pogoji:

Posamezni proizvodi iz serijske proizvodnje morajo ustrezati najmanj vsem zahtevam Pravilnika št. 92 R, Amandma 01, Dodatek 02, "Enotni pogoji za homologiranje neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) za motorna kolesa, mopede in trikolesna vozila".

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

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

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

Temu tipu proizvoda se dodeli naslednja homologacijska oznaka:

 92 R - 01 8146

Homologacijska oznaka na proizvodu mora po izvedbi in velikosti ustrezati zahtevam Pravilnika št. 92 R.01.

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

Homologacijska oznaka na proizvodu mora biti nameščena na mestu, ki je označeno v homologacijski dokumentaciji. Mesto homologacijske oznake mora biti izbrano tako, da je oznaka jasno čitljiva tudi po vgradnji v vozilo.

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 zapise 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 pooblaščen osebe 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 a type of non-original replacement exhaust silencing systems (RESS) or its components from serial production under the following conditions:

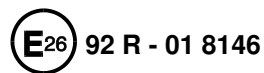
Individual products from serial production shall comply at least with all requirements set out in the Regulation No. 92 R, Amendment 01, Supplement 02 "Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles".

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

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

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

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



The design and size of the approval marking shall meet the requirements of the Regulation No. 92 R.

Only products which fully comply with the approval documentation may bear the allotted approval mark.

The approval marking on the product must be attached at the place indicated in the approval documentation. Location of the approval marking shall be selected in such way that the marking is clearly readable even when installed on a vehicle.

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 Sretina, M.Sc.Eng.
Head of Vehicle department



KAZALO OPISNE DOKUMENTACIJE E8146
INDEX TO THE INFORMATION PACKAGE E8146

Revision: 00

Homologacijska številka: **E26 92 R 01/02 8146**
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: **19-00097-CM-GBM-00**
Test report:

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

datum izdaje: **13.12.2019**
date of issue:

datum zadnje spremembe: /
date of latest amendment:

Opisni list/Tehnični opis naprave: /
Information document/Technical description of the device:

Število strani:
Number of pages:

datum izdaje:
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: **13**
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 **ECE-R92 01** for the following product:
Exhaust system for Motorcycles:

Type: **M-HCUFG002**

Version: **M-HCUFG002 01SSBL (SS / SS / SS)**
M-HCUFG002 01TBL (SS / Ti / SS)
M-HCUFG002 02SSBL (SS / SS / Ca)
M-HCUFG002 02TBL (SS / Ti / Ca)
M-HCUFG002 05TBL (Ti / Ti / Ca)
M-HCUFG002 06TBL (Ti / Ti / Ti)
M-HCUFG002 01SS (SS / SS / SS)
M-HCUFG002 01T (SS / Ti / SS)
M-HCUFG002 02SS (SS / SS / Ca)
M-HCUFG002 02T (SS / Ti / Ca)
M-HCUFG002 05T (Ti / Ti / Ca)
M-HCUFG002 06T (Ti / Ti / 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 Roša, CEO



Date: 27.09.2019



Techn.Bericht Nr. / *Techn. Report No.*: 19-00097-CM-GBM-00
Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivancna Gorica
Slovenia
Typ / *Type*: M-HCUFG002

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PRÜFBERICHT TEST REPORT

Nr. / *no.* 19-00097-CM-GBM-00

über die Prüfung einer Nicht-Originalauspuffanlage oder
von Einzelteilen hiervon als Technische Einheit für Kraffräder gemäß
ECE-R 92 Revision 1,
Ergänzung 2 zur Änderungsserie 01
Einheitliche Bedingungen für die Genehmigung von nicht- originalen Austausch-
Schalldämpferanlagen für Kraffräder, Mopeds und Dreiradfahrzeuge

*about a test of a non-original exhaust system or a component
as a separate technical unit for motorcycles according to
ECE-R 92 Revision 1,
Supplement 2 to the 01 series of amendments
Uniform provisions concerning the approval of non-original replacement exhaust silencing
systems (RESS) for motorcycles, mopeds and three-wheeled vehicles.*

Genehmigungsstand / <i>Approval status</i>		
<input checked="" type="checkbox"/>	Erteilung einer Typgenehmigung <i>Granting of a type approval</i>	E26 92R-01 8146*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: -



0. Allgemeine Angaben / *General information*

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

0.2. Typ / *Type*: M-HCUFG002

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-HCUFG002 01SSBL	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>
M-HCUFG002 01TBL	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	VA / <i>Stainless steel</i>
M-HCUFG002 02SSBL	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	Karbon / <i>Carbon</i>
M-HCUFG002 02TBL	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HCUFG002 05TBL	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HCUFG002 06TBL	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HCUFG002 01SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>
M-HCUFG002 01T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	VA / <i>Stainless steel</i>
M-HCUFG002 02SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	Karbon / <i>Carbon</i>
M-HCUFG002 02T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HCUFG002 05T	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HCUFG002 06T	Titan / <i>Titanium</i>	Titan / <i>Titanium</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.



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- 0.3. Name und Anschrift des Herstellers /
Name and address of manufacturer: Akrapovic d.d.
Malo Hudo 8a
1295 Ivancna Gorica
Slovenia
- 0.4. Name und Anschrift des Beauftragten /
Name and address of authorised agent: entfällt / *not applicable*
- 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: 28.11.2019

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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*: HQV 401
3.1.1.1 Variante / *Version / Variant / Version*: B1 / -
3.1.1.2 Fahrzeugkategorie / *Category*: L3e-A2
3.1.1.3 Handelsbezeichnung / *Model*: Svartpilen 401
3.1.2. Hersteller / *Manufacturer*: KTM AG
3.1.3. Genehmigungs-Nr. / *Homologation no.*: e1*168/2013*00064*
3.1.3.1 Nachtrag bzw. Erweiterung / *Extension*: 00
3.1.4. Fahrzeugidentifizierungsnummer /
Vehicle identification no.: VBKJUU401KC248198
3.1.5. Baujahr / *Year of manufacture*: 2019
3.1.6. km-Stand / *Kilometers*: 155
3.1.7. Zul. Gesamtgewicht / *total weight*: 355 kg

3.2. Antriebsmaschine / *Engine*

- 3.2.1. Hersteller / *Manufacturer*: KTM AG
3.2.2. Typ / *Type*: 938
3.2.3. Hubraum / *Engine capacity*: 373 cm³
3.2.4. Höchstleistung / *engine net power*: 31 kW bei / *at* 9000 min⁻¹
3.2.5. max. Drehmoment / *net torque*: 37 Nm bei / *at* 6750 min⁻¹

3.3. Kraftübertragung / *Transmission*

- 3.3.1. Art der Kraftübertragung /
Kind of transmission: mechanisch / *mechanical*
3.3.4. Getriebe / *Gearbox*: manuel / *manual*
3.3.5. Übersetzungsverhältnisse /
Transmission ratios:
primär / *primary* / sekundär / *secondary* 2,667 / 3,000
Höchstgeschwindigkeit / *Top speed*: 160 km/h
Reifen / *Tires*:
vorne / *front* Pirelli Scorpion Rally STR
110/70 R17 54H
hinten / *rear* 150/60 R17 66H

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)



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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 category: 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 / *Sound testing*

3.9.2. Leistung / *Power measurement*

3.9.3. Höchstgeschwindigkeit / *Top speed*

3.9.4. Abgasverhalten / *Pollution test*

sind der als Anlage 3 und 4 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 Kraffräder 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 Krafffahrzeugen unter den dort genannten Bedingungen verwendet werden. /

The described non-original exhaust system / technical unit is suitable for an application on the vehicles listed in enclosure 2.

3.9.6. Die allgemeinen Spezifikationen gemäß Punkt 6.1 der ECE-R 92 wurden überprüft und werden durch die Nicht-Originalauspuffanlage / Technische Einheit erfüllt. / *The general specifications concerning item 6.1 of the Directive ECE-R 92 were checked and fulfilled.*

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



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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-HCUFG002	19.09.2019	1
Stückliste <i>Part list</i>	M-HCUFG002	-	1
Zusammenstellungszeichnung <i>Assembly drawing</i>	HUSQVARNA VITPILEN 401 HUSQVARNA SVARTPILEN 401	-	1
Montageanleitung <i>Installation instructions</i>	Husqvarna Vitpilen 401 Husqvarna Svartpilen 401	12/2019	12
ASEP Bestätigung <i>Statement of compliance ASEP</i>	-	03.12.2019	1

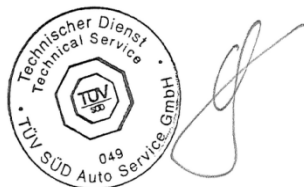
5. Schlussbescheinigung / *Summary*

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, 13.12.2019



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



ANLAGE 1
ENCLOSURE 1

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

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M-HCUFG002
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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 und Vorschalldämpfer mit Katalysator / <i>header pipes and presilencer with catalytic converter</i>	Originalteile / <i>original parts</i>	-
2)	Schalldämpfer / <i>silencer</i> (Austrittsrohr / <i>outlet pipe</i> Ø 32)	konisch / <i>conical</i> Ø 76,6 - 115,6 Länge ohne Endkappen / <i>length without endcaps</i> 260	M-HCUFG002 e26*08146*G E26 92R-01 8146

**ANLAGE 2
ENCLOSURE 2**

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

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Verwendungsbereich (Fahrzeugdaten) / Field of application

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Lfd. Nr.	Hersteller	Fabrikmarke	Handelsbezeichnung	Fahrzeugtyp Genehmigung Nr.	Var. Vers.	Motortyp 4 Takt	Hubraum in cm ³	Nennleistung kW/min ⁻¹	Sonstige bestimmende Merkmale	Anordnung entspr. Anl. 1 lfd. Nr.
<i>No. of vehicle</i>	<i>Manufacturer</i>	<i>Trade mark</i>	<i>Commercial description</i>	<i>Vehicle type no. of homologation</i>	<i>Var. Vers.</i>	<i>Engine type 4 Stroke</i>	<i>Engine capacity in cm³</i>	<i>max. engine power kW/min⁻¹</i>	<i>Additional remarks</i>	<i>Composition reg. enclosure no. 1</i>
1)	KTM AG	Husqvarna	Svartpilen 401	HQV 401	alle	938	373	31/9000	mit Kat.*) /	1)2)
2)			Vitpilen 401	e1*168/2013*00064*						

*) 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:

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Ergebnis der Prüfungen / Test results

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Lfd.Nr.	Leistung Serie kW/min ⁻¹	Leistung Austausch kW/min ⁻¹	Vmax Serie km/h	Vmax Aus- tausch km/h	Fahrgeräusche in dB(A) / Sound levels driving vehicle in dB(A)					Standgeräusche in dB(A) / Sound levels stationary vehicle in dB(A)			
					gemes- sen in Gang	Grenz- wert **)	Serie gemes- sen	Austausch gemessen	bei km/h	It. 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 **) SLEU4	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*	31/9000	31/9000	-	-	3+4	77	76	75	50	85	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: Husqvarna
 1.2 Vehicle Ident. Number: VBKJUJ401KC248198
 1.3 Commercial name / Type: Svartpilen 401
 1.4 Type: ---
 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]: 155,0
 1.10 Mass of the vehicle in running order (m_{ro}) [kg]: 230,0
 1.11 Vehicle test mass (m_t) [kg]: 232,0
 1.12 Technically permissible max. laden mass (M) [kg]: ---
 1.13 Power to mass ratio index (PMR): 134,8
 1.14 Vehicle length [m]: 2,1
 1.15 Milage [km]: 155

2. Engine

2.1 Manufacturer / engine code: Husqvarna
 2.2 Model: 9-938*16857*
 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]: 31 / 9000
 2.7 Idle engine speed [min⁻¹]: 1600
 2.8 Cylinder capacity [cm³]: 373

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	/	---	/	KTMIS004
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-HCUFG002
4.8	Tail pipe(s) Make / type (left/right):	Akrapovic	/	---	/	D=32mm
4.9	Exhaust Flap(s) Make / type (left/right):	---	/	---	/	---
4.13	Tyres					
	Manufacturer:	Pirelli		Pirelli		
	Type:	Scorpion Rally STR		Scorpion Rally STR		
	Size:	110/70 R17 54H		150/60 R17 66H		
	Tyre pressure [bar]:	---		---		
	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	4	$a_{wot\ ref} = 3.33 * \log(PMR) - 4.16$
-10% Reference acc. $a_{wot\ ref\ min}$ [m/s ²]:	test acceleration $a_{wot\ test}$ [m/s ²]:	3,41	2,42	$k = ((a_{wot\ ref} - a_{wot(i+1)}) / (a_{wot(i)} - a_{wot(i+1)}))$
+10% Reference acc. $a_{wot\ ref\ max}$ [m/s ²]:	aver. vehicle velocity when ref. point at AA':	39,5	43,1	$k_p = (1 - (a_{urban} / a_{wot\ ref}))$
Target acceleration a_{urban} [m/s ²]:	aver. vehicle velocity when ref. point at PP':	49,5	50,5	$a_{wot\ i} = ((v_{BB} / 3.6)^2 - (v_{AA} / 3.6)^2) / (2 * (20 + i))$
Gear weighting factor k_g :	aver. vehicle velocity when ref. point at BB':	59,3	57,0	$a_{wot\ i+1} = ((v_{BB} / 3.6)^2 - (v_{AA} / 3.6)^2) / (2 * (20 + i + 1))$
Partial power factor k_p :	Operating mode:	Road		$a_{urban} = 1.28 * \log(PMR) - 1.19$
Test speed v_{test} at PP' (± 1) [km/h]:	Gearbox:	Locked		Evaluation $a_{wot\ test}$: 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⁾	
				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	13	wot ₍₃₎	0,0	39,9	4094	49,7	5060	59,7	6113	3,44	78,4	78,7	78,4	78,4
	14			39,6	4096	49,7	5034	59,2	5738	3,38	78,6	78,3		
	15			39,1	4103	49,2	4970	59,0	5707	3,41	78,3	78,3		
	2	crs ₍₃₎		49,8	5058	49,9	5019	49,3	4987	2,40	72,5	72,4	72,4	72,7
	5			50,0	5068	50,3	5078	50,3	5093		72,7	73,2		
7	50,1		5058	49,7	5034	49,3	4943	72,0	72,5					
4	16	wot ₍₄₎	0,0	43,3	3593	50,7	4121	57,0	4684	2,40	77,0	76,4	77,1	76,4
	17			42,9	3687	50,3	4118	57,0	4697	2,46	77,2	76,7		
	18			43,2	3594	50,5	4103	57,0	4469	2,41	77,2	76,2		
	8	crs ₍₄₎		50,3	4074	50,2	4074	50,2	4106	2,40	71,1	70,5	70,9	70,5
	10			49,8	4074	49,5	4006	49,1	4008		70,8	70,2		
	11			50,4	4094	50,2	4058	50,0	4069		70,7	70,7		

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}	$L_{wot\ max}$	Test result L_{urban}
	i [dB(A)]	i+1 [dB(A)]			
L_{wot}	78,4	77,1	77,8	71,8	82,0
L_{crs}	72,7	70,9			75,0

Calculation L_{urban} (PMR > 25)
$[L_{urban} = L_{wot\ rep} - k_p * (L_{wot\ rep} - L_{crs\ rep})]$
$[L_{urban} = 77,8 - 0,47 * (77,8 - 71,8)]$

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: Road

Measuring results	left	right
	[dB(A)]	[dB(A)]
1 st Run	---	84,7
2 nd Run	---	84,9
3 rd Run	---	85,0
4 th Run	---	---
average Value	---	84,9

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)]
SUPERMOTO	85,0

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

6. **Weather conditions**

Air temperature [°C]:	11,9
Surface temperature [°C]:	13,0
Air pressure [mbar]:	982,9

Air humidity [%]:	93,9
Wind speed [m/s]:	0,8
Wind direction [°]:	288,8

7. **General Requirements**

Ambient noise level	
before Measurement [dB(A)]:	43,2
after Measurement [dB(A)]:	43,2

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-R 41.04, Supp. 7, Annex 3
9. **Date / place of test:** 28.11.2019 Akrapovic d.d., Precna (SI)
10. **Expert:** Wibmer Chr.
11. **Remarks:** Slip on system
Insert D= 32mm



Partial exhaust system / Slip-ON line / EC / ECE Type approval

HUSQVARNA VITPILEN 401
HUSQVARNA SVARTPILEN 401

Product code: S-HU4S06-HCUFGSSBL

