

**THE NETHERLANDS  
(N E D E R L A N D)**



**ANNUAL IN-SERVICE CONFORMITY REPORT**

According to Commission Regulation (EU) 2018/1832, Annex 2, Appendix 4

**Report number: RDW-ISC-2023-01**

**A. Quick overview and main conclusions**

*For the year 2023 the RDW has selected ten (10) ISC families to be tested. For ten (10) ISC families the Statistical Folder remains to be finalized, and progress is continuously being made. Once the procedures for these families are completely finished, the results will be added to an future update of this Annual Report.*

**B. ISC activities performed by the manufacturer in the previous year**

**(1) Information gathering by manufacturer**

*The manufacturer is obliged to ISC-test their vehicles for tailpipe emissions comprising at least the Type 1 test for all ISC families. Only if their sales/produced numbers pass the mark of 5000 for a given year according to Annex 2, paragraph 5 of Regulation 2018/1832.*

**(2) ISC testing (including planning and selection of families tested, and final results of tests)**

*The manufacturer is obliged to ISC-test their vehicles for tailpipe emissions comprising at least the Type 1 test for all ISC families. Only if their sales/produced numbers pass the mark of 5000 for a given year according to Annex 2, paragraph 5 of Regulation 2018/1832.*

**C. ISC activities performed by accredited laboratories or technical services in the previous year**

**(3) Information gathering and risk assessment**

*There are currently no independent accredited laboratories or technical services that report to the RDW for their ISC test report(s).*

- (4) ISC testing (including planning and selection of families tested, and final results of tests)

*There are currently no independent accredited laboratories or technical services that report to the RDW for their ISC test report(s).*

D. ISC activities performed by the granting type approval authority in the previous year

- (5) Information gathering and risk assessment

*The leading principles we apply to gather information and carry out a comprehensive risk assessment are:*

- *Gathering relevant information on possible emission non-compliances relevant for deciding which ISC families to check in a particular year.*
- *Conducting initial risk assessment based on gathered information to choose the ISC family to be tested.*

*The steps that were undertaken to gather the relevant information and select the ISC families for testing are:*

1. *Identifying relevant parameters to start collecting the information;*
2. *Gathering the information from e4 type approvals;*
3. *Collecting relevant data from e4 certificate holders (sales, ISC families, motor type, available ISC and CoP (WLTP) test results from OEM, eligible vehicles' availability);*
4. *Creating a database to collect and organize the relevant vehicle data;*
5. *Selecting the ISC families for testing.*

- (6) ISC testing (including planning and selection of families tested, and final results of tests)

*Based on gathered information as explained in section 5 ISC families are selected and an ISC test plan is produced.*

*The annual test scope and test plan is based on 3 subjects:*

1. *Minimum amount of vehicles to be tested;*
2. *Minimum amount of ISC tests to be carried out;*
3. *Selected ISC families for testing.*

*The overview of the planned ISC tests will be shown below. For the current test status per ISC family and test results please refer to Appendix 1.*

Overview ISC Testing

Manufacturer	Make	Model	Fuel type	Family	Status Statistical Folder
Hyundai Motor Company	Hyundai	Kona	Petrol	4-HMC-12-1	Not all vehicles with this ISC-family have been found yet; undecided
Kia Motors Corporation	KIA	SORENTO	Petrol	4-KMC-19-0	Not all vehicles with this ISC-family have been found yet; undecided
Kia Motors Corporation	KIA	SORENTO	Diesel	4-KMC-20-0	One vehicle remains to be tested for the statistical procedure; undecided
KIA Motors Slovakia s.r.o	Kia	*Ceed	Petrol	4-KMS-5-1	Two vehicles remains to be tested for the statistical procedure; undecided
KIA Motors Slovakia s.r.o	KIA	SPORTAGE 1.6	Diesel	4-KMS-12-0	Not all vehicles with this ISC- family have been found yet; undecided
Opel Automobile GmbH	Opel	Mokka	Petrol	4-W0V-G9-0	All vehicles tested, finalizing statistical procedure; undecided
Suzuki Motor Corporation (4w)	SUZUKI	IGNIS	Petrol	4-SMC-1-0	All vehicles tested, finalizing statistical procedure; undecided
Suzuki Motor Corporation (4w)	SUZUKI	SWIFT	Petrol	4-SMC-1-1	Not all vehicles with this ISC-family have been found yet; undecided
Volvo Car Corporation	Volvo	XC40	Diesel	4-YV1-007-0	Not all vehicles with this ISC-family have been found yet; undecided
Volvo Car Corporation	Volvo	XC40	Diesel	4-YV1-014-0	One vehicle remains to be tested for the statistical procedure; undecided

(7) Detailed investigations

*The statistical folders for the ISC test year 2023 are still being processed and have not been completed yet. Therefore there is no detailed investigation going on for aforementioned test year. This section will be updated when applicable.*

(8) Remedial measures

*The ISC test year 2023 have not yet resulted in the initiation of a detailed investigation. Therefore there are no remedial measures required for aforementioned test year. This section will be updated when applicable.*

E. Assessment of the yearly expected emissions decrease due to any ISC remedial measures

*Not applicable since assessment will not be performed due to the answer provided in chapter 8 "Remedial measures".*

**F Lessons Learned (including for performance of instruments used)**

*For the ISC test year 2023, sourcing vehicles from the selected emission family is a trail. And there are still statistical folders of test year 2022 that could not be closed due to the above-mentioned reason. And also due to detailed investigations of the test year 2022. This required significant resilience and flexibility from us and from our capacity to learn, but significant strides have been made and are still being made.*

*Carrying out the ISC tasks is a relatively new process and required a proactive approach from the RDW in 2023 (and 2022) and a certain degree of resilience. We have delved deep, which has led to many new insights, conclusions, knowledge, and experiences. This has led to improvement in the ISC processes in the following aspects:*

- Improved methods for ensuring the quality of the data models for risk analysis;*
- Gained insights into techniques for identifying and prioritizing risks have led to improvements in the methods used for risk analysis and vehicle selection;*
- Experience and improved knowledge in the area of assessing compliance in case of negative test results;*
- The ISC process was, and for many still is, a new unknown and unfamiliar task (in the entire EU). This new task was difficult to estimate in advance, and there is only limited knowledge and experience throughout Europe. Especially regarding tests with a negative outcome. In the past year, the RDW has gained a lot of experience in this part of the process. Acquired knowledge relevant to formulating pragmatic, feasible, and verifiable measures. This highlights the importance of communication and collaboration between parties involved (e.g. other GTAA's). An important element of the lessons learned, and therefore the continuous improvement of this process, is the constant evaluation, feedback collection and optimization in order to maximize the effectiveness and efficiency of the process.*
- To improve our quality and processes we are proactive exploring the possibilities to collaborate with other ISC partners within the Europe.*

*Another result of the lessons learned is that for the coming ISC test year 2024 we will strengthen the ISC-team to improve the surveillance on the vehicles in use.*

**G. Report of other invalid tests**

*There are no reports with invalid test results to be reported.*

Date : 29-03-2024

Place : Zoetermeer

## Appendix 1

Overview of test results of ISC test year 2023 will be published here when the statistical procedure and test reports are finalized.

### 1. Hyundai Kona, 4-HMC-12-1

OEM	ISC family	Fuel	Vehicle	Tests Test status
Hyundai Motor Company	4-HMC-12-1	Petrol	V1	Vehicle could not yet be found
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found

## 2. Kia Sorento, 4-KMC-19-0

OEM	ISC family	Fuel	Vehicle	Tests Test status
Kia Motors Corporation	4-KMC-19-0	Petrol	V1	Vehicle could not yet be found
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found

### 3. Kia Sorento, 4-KMC-20-0

OEM	ISC family	Fuel	Vehicle	Tests Test status
Kia Motors Corporation	4-KMC-20-0	Diesel	V1	Vehicle tested, pending test report
			V2	Vehicle tested, pending test report
			V3	Vehicle could not yet be found

#### 4. Kia Ceed, 4-KMS-5-1

OEM	ISC family	Fuel	Vehicle	Test status
KIA Motors Slovakia s.r.o	4-KMS-5-1	Petrol	V1	Vehicle tested, pending test report
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found



### 5. Kia Sportage, 4-KMS-12-0

OEM	ISC family	Fuel	Vehicle	Test status
KIA Motors Slovakia s.r.o	4-KMS-12-0	Diesel	V1	Vehicle could not yet be found
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found

## 6. Opel Mokka, 4-W0V-G9-0

OEM	ISC family	Fuel	Vehicle	Test status
Opel Automobile GmbH	4-W0V-G9-0	Petrol	V1	Vehicle tested, pending test report
			V2	Vehicle tested, pending test report
			V3	Vehicle tested, pending test report

## 7. Suzuki Ignis, 4-SMC-1-0

OEM	ISC family	Fuel	Vehicle	Test status
Suzuki Motor Corporation (4w)	4-SMC-1-0	Petrol	V1	Vehicle tested, pending test report
			V2	Vehicle tested, pending test report
			V3	Vehicle tested, pending test report

### 8. Suzuki Swift, 4-SMC-1-1

OEM	ISC family	Fuel	Vehicle	Test status
Suzuki Motor Corporation (4w)	4-SMC-1-1	Petrol	V1	Vehicle could not yet be found
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found

**9. Volvo XC40, 4-YV1-007-0**

OEM	ISC family	Fuel	Vehicle	Test status
Volvo Car Corporation	4-YV1-007-0	Diesel	V1	Vehicle could not yet be found
			V2	Vehicle could not yet be found
			V3	Vehicle could not yet be found

**10. Volvo XC40, 4-YV1-014-0**

OEM	ISC family	Fuel	Vehicle	Test status
Volvo Car Corporation	4-YV1-014-0	Diesel	V1	Vehicle tested, pending test report
			V2	Vehicle tested, pending test report
			V3	Vehicle could not yet be found