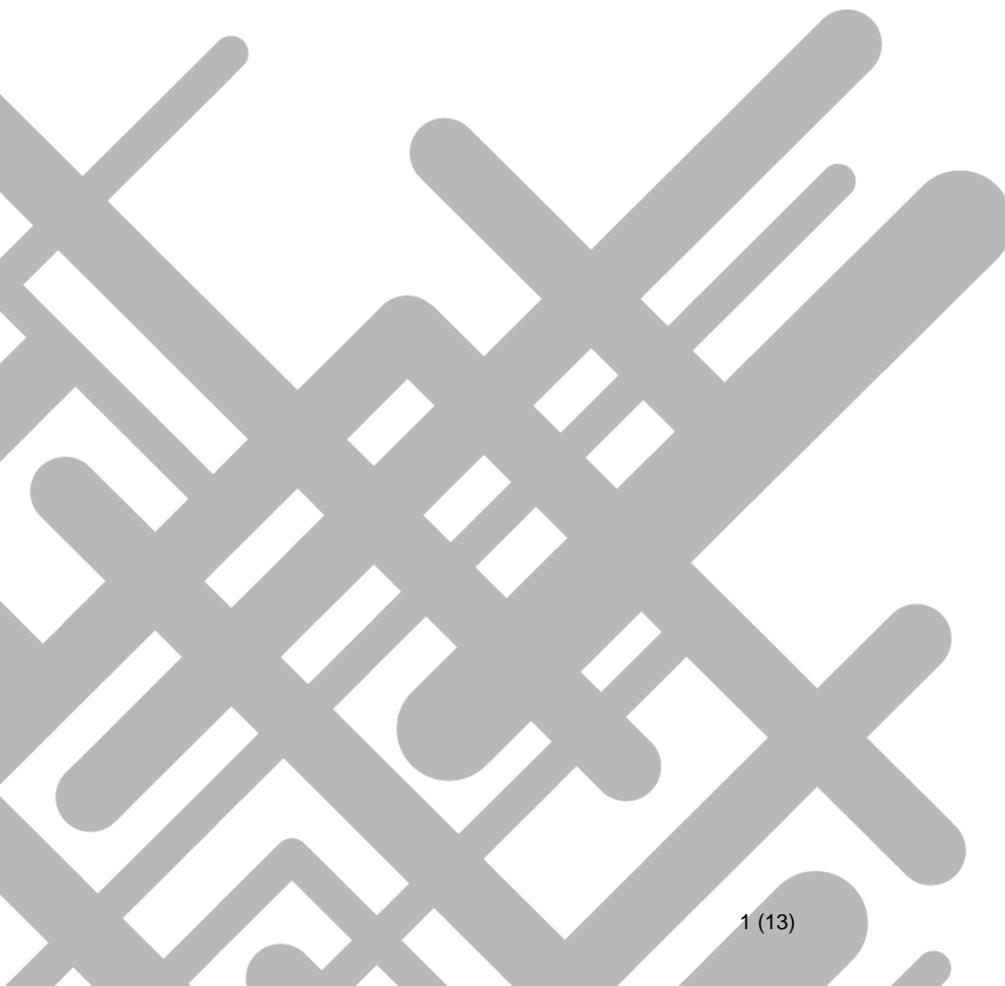


# Annual Overview of In-Service Verification (ISV) 2025



This annual report is submitted in accordance with Commission Implementing Regulation (EU) 2023/2866 and Delegated Regulation (EU) 2023/2867, to verify that CO<sub>2</sub> emission and fuel consumption values recorded in the certificate of conformity correspond to values observed on vehicles in-service.

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Author	Dacau Razvan
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## Introduction

### Selection of In-Service Verification Families

The selection of In-Service Verification (ISV) families for testing was performed in accordance with Regulation (EU) 2023/2866, Article 3. The category “Risk Assessment” is based on the JRC 2025 ISV Risk Assessment, while the category “Other” reflects families selected based on sales volumes or to ensure that at least one ISV family per manufacturer is included for which the granting type-approval authority has issued emissions type-approvals in the three calendar years preceding the in-service verification.

### In-Service Verification testing 2025

At the start of 2025, agreements were finalized with two technical services (AVL MTC AB and TU Wien ATC) to conduct ISV testing. As no tests were performed in 2024, a backlog had to be addressed. Testing started gradually, and initial challenges were encountered due to it being the first experience for both our team and the technical services. Guidance from the Commission helped to proceed effectively. In total, 15 ISV families were tested (4 from 2025 and 11 from 2024), most of which are now completed, with some families undergoing multiple test types.

## A. General Information

<b>(1)</b>	<b>Granting type-approval authority</b>	<b>Swedish Transport Agency</b>
<b>(2)</b>	Date of annual overview	01 March 2026
<b>(3)</b>	Year concerned	2025
<b>(4)</b>	Total number of in-service verification families for which the authority has issued emissions type-approvals in the three calendar years preceding the in-service verification	845
<b>(5)</b>	Minimum number of in-service verification families to be tested (= 2 % of point (4))	17
<b>(6)</b>	Total number of in-service verification families tested in the year concerned	15

## B. List of the in-service verification families selected for testing

ISV ID	OEM	IP ID	Reason
2025-e5-0001	BMW AG	IP-0000680-WBA-1	Risk Assessment
2025-e5-0002	BMW M GmbH	IP-0000041-WBS-1	Other
2025-e5-0003	Ford Motor Company	IP-S650_2024_00002-1FA	Other
2025-e5-0004	Ford Motor Company of Australia Pty Ltd	IP-P703_2022_00002-6FP-1	Risk Assessment
2025-e5-0005	Ford-Werke GmbH	IP-V408_2022_00006-WF0-1; IP-V408_2022_00012-WF0-1	Risk Assessment
2025-e5-0006	Ford-Werke GmbH	IP-V362_2021_00046-WF0-1; IP-V362_2021_00047-WF0-1; IP-V362_2021_00045-WF0-1	Risk Assessment
2025-e5-0007	Hyundai Motor Türkiye Otomotiv Anonim Şirketi	IP-050530-NLH	Risk Assessment
2025-e5-0008	Hyundai Motor Türkiye Otomotiv Anonim Şirketi	IP-050531-NLH	Risk Assessment
2025-e5-0009	Hyundai Motor Manufacturing Czech s.r.o.	IP-0500971-TMA-1	Risk Assessment
2025-e5-0010	Hyundai Motor Manufacturing Czech s.r.o.	IP-0500976-TMA-1	Risk Assessment
2025-e5-0011	Jaguar Land Rover Limited	IP-24h30p294PAA_01-SAL	Other
2025-e5-0012	Kia Corporation	IP-050597-KNA-1	Risk Assessment

ISV ID	OEM	IP ID	Reason
2025-e5-0013	Rolls-Royce Motor Cars Ltd	IP-0000008-SCA-1	Other
2025-e5-0014	SAIC Motor Corporation Limited	IP-ZS11_2020_02-LSJ-1	Other
2025-e5-0015	Volkswagen AG	IP-J73X_2022_00018-WV4-0	Risk Assessment
2025-e5-0016	Volvo Car Corporation	IP-2019_536L4D-YV1-1	Other
2025-e5-0017	Volvo Car Corporation	IP-2021_256H5D-YV1-1	Risk Assessment

### C. Summary of in-service verification test results

Type of test	Min.	Total	Pass	Fail	Pending
CDM test (75%)	13	13	3		10
RL test (50%)	8	8	1		7
AS test (25%)	4	4	2		2

### D. Detailed in-service verification test result for the year concerned

ISV ID	OEM	Type of test	Start date	GTAA/TS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2025-e5-0003	Ford Motor Company	CDM	2025-11-21	TU Wien ATC	1	0,989	PASS (0,994)	ATC 2025_070	0000-ISV-2025-E05-03-CDM.jet
		CDM	2025-11-19		2	1,003		ATC 2025_071	
		CDM	2025-11-20		3	0,990		ATC 2025_072	
2025-e5-0006	Ford-Werke GmbH	CDM	2025-12-17	TU Wien ATC	1	0,996	PASS (0,988)	ATC 2025_078	0000-ISV-2025-E05-06-CDM.jet
		CDM	2025-12-12		2	0,986		ATC 2025_077	
		CDM	2026-01-19		3	0,982		ATC 2026_002	
2025-e5-0006	Ford-Werke GmbH	AS	2026-01-19	TU Wien ATC	1	0,939 0,996 1,037 1,016	PASS	ATC 2026_003	0000-ISV-2025-E05-06-AS.jet

ISV ID	OEM	Type of test	Start date	GTAA/TS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2025-e5-0016	Volvo Car Corporation	CDM	2025-10-08	TU Wien ATC	1	0,976	PASS (0,980)	ATC 2025_058	0000-ISV-2025-E05-16-CDM.jet
		CDM	2025-10-09		2	0,984		ATC 2025_059	
		CDM	2025-10-07		3	0,981		ATC 2025_060	
2025-e5-0016	Volvo Car Corporation	AS	2025-10-14	TU Wien ATC	1	0,966 1,013 1,156 0,870	PASS	ATC 2025_076	0000-ISV-2025-E05-16-AS.jet
2025-e5-0017	Volvo Car Corporation	RL	2025-10-18	TU Wien ATC	3	1,031	PASS (1,040)	ATC 2025_062	0000-ISV-2025-E05-17-RL.jet
		RL	2025-10-18		3	1,038		ATC 2025_063	
		RL	2025-10-14		3	1,050		ATC 2025_064	

### E. Detailed in-service verification test results, for which conclusions were reported as ‘Pending’ in the previous annual overview

Year concerned	ISV ID	OEM	Type of test	Start date	GTAA/TS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0001	BMW AG	CDM	2025-06-06	TU Wien ATC	1	0,932	PASS (0,947)	ATC 2025_025	0001-ISV- 2024-E05- 01-CDM.jet
			CDM	2025-06-11		2	0,951		ATC 2025_026	
			CDM	2025-06-04		3	0,958		ATC 2025_027	
2024	2024-e5-0002	Ford-Werke GmbH	CDM	2025-11-27	AVL MTC AB	1	0,947	PASS (0,966)	ISV-2024-E05- 0002-CDM-V4	0000-ISV- 2024-E05- 02-CDM.jet
			CDM	2025-11-26		2	0,975		ISV-2024-E05- 0002-CDM-V5	
			CDM	2025-11-29		3	0,976		ISV-2024-E05- 0002-CDM-V6	
2024	2024-e5-0002	Ford-Werke GmbH	RL	2025-07-10	AVL MTC AB	1	1,058	PASS (1,060)	ISV-2024-E05- 0002-RL-V1	0001-ISV- 2024-E05- 02-RL.jet
			RL	2025-07-10		2	1,067		ISV-2024-E05- 0002-RL-V2	
			RL	2025-07-09		3	1,055		ISV-2024-E05- 0002-RL-V3	



Year concerned	ISV ID	OEM	Type of test	Start date	GTAATS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0003	Ford Motor Company of Australia Pty Ltd	RL	2025-10-17	TU Wien ATC	1	0,999	PASS (0,997)	ATC 2025_065	0000-ISV-2024-E05-03-RL.jet
			RL	2025-10-18		2	0,991		ATC 2025_066	
			RL	2025-10-18		3	1,002		ATC 2025_067	
2024	2024-e5-0004	Hyundai Motor Türkiye Otomotiv Anonim Şirketi	CDM	2025-10-29	TU Wien ATC	1	1,014	PASS (1,004)	ATC 2025_068	0000-ISV-2024-E05-04-CDM.jet
			CDM	2025-10-30		2	0,992		ATC 2025_069	
			CDM	2025-12-05		3	1,005		ATC 2025_074	
			CDM	2025-12-04		4	1,018		ATC 2025_075	
			CDM	2026-01-27		5	0,990		ATC 2026_004	
2024	2024-e5-0005	Hyundai Motor Manufacturing Czech s.r.o.	RL	2025-06-25	AVL MTC AB	1	0,965	PASS (0,961)	ISV-2024-E05-0005-RL-V1	0000-ISV-2024-E05-05-RL.jet
			RL	2025-06-26		2	0,963		ISV-2024-E05-0005-RL-V2	
			RL	2025-06-26		3	0,956		ISV-2024-E05-0005-RL-V3	

Year concerned	ISV ID	OEM	Type of test	Start date	GTAATS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0006	SAIC Motor Corporation Limited	CDM	2025-11-14	AVL MTC AB	1	0,983	PASS (0,990)	ISV-2024-E05-0006-CDM-V1	0000-ISV-2024-E05-06-CDM.jet
			CDM	2025-10-23		2	1,002		ISV-2024-E05-0006-CDM-V2	
			CDM	2025-11-12		3	0,986		ISV-2024-E05-0006-CDM-V3	
2024	2024-e5-0006	SAIC Motor Corporation Limited	RL	2025-08-08	AVL MTC AB	1	0,977	PASS (0,983)	ISV-2024-E05-0010-RL-V1	0000-ISV-2024-E05-06-RL.jet
			RL	2025-08-08		2	0,987		ISV-2024-E05-0010-RL-V2	
			RL	2025-08-08		3	0,984		ISV-2024-E05-0010-RL-V3	
2024	2024-e5-0007	Volvo Car Corporation	CDM	2025-06-03	TU Wien ATC	1	0,982	PASS (0,972)	ATC 2025_022	0001-ISV-2024-E05-07-CDM.jet
			CDM	2025-05-28		2	0,967		ATC 2025_023	
			CDM	2025-05-22		3	0,967		ATC 2025_024	

Year concerned	ISV ID	OEM	Type of test	Start date	GTAATS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0007	Volvo Car Corporation	RL	2025-06-09	TU Wien ATC	1	1,040	PASS (1,050)	ATC 2025_038	0000-ISV- 2024-E05- 07-RL.jet
			RL	2025-06-09		2	1,055		ATC 2025_039	
			RL	2025-06-09		3	1,055		ATC 2025_040	
2024	2024-e5-0008	Jaguar Land Rover Limited	CDM	2025-04-16	TU Wien ATC	1	1,015	PASS (0,994)	ATC 2025_013	0001-ISV- 2024-E05- 08-CDM.jet
CDM	2025-04-18	2	1,047	ATC 2025_014						
CDM	2025-04-23	3	0,992	ATC 2025_015						
CDM	2025-07-09	4	0,979	ATC 2025_034						
CDM	2025-08-13	5	0,992	ATC 2025_048						
CDM	2025-09-12	6	0,964	ATC 2025_053						
CDM	2025-09-17	7	0,972	ATC 2025_054						

Year concerned	ISV ID	OEM	Type of test	Start date	GTAA/TS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0009	Kia Corporation	CDM	2025-05-20	TU Wien ATC	1	0,998	PASS (1,013)	ATC 2025_019	0001-ISV- 2024-E05- 09-CDM.jet
			CDM	2025-05-20		2	1,022		ATC 2025_020	
			CDM	2025-05-21		3	1,015		ATC 2025_021	
			CDM	2025-06-13		4	1,012		ATC 2025_029	
			CDM	2025-06-17		5	1,020		ATC 2025_030	
			CDM	2025-08-12		6	1,012		ATC 2025_047	
2024	2024-e5-0009	Kia Corporation	RL	2025-05-28	TU Wien ATC	1	1,045	PASS (1,039)	ATC 2025_035	0000-ISV- 2024-E05- 09-RL.jet
			RL	2025-05-28		2	1,038		ATC 2025_036	
			RL	2025-05-28		3	1,035		ATC 2025_037	
2024	2024-e5-0010	Ford Motor Company	CDM		TU Wien ATC	0		Pending		
2024	2024-e5-0011	Rolls-Royce Motor Cars Ltd	RL		TU Wien ATC	0		No vehicle found		

Year concerned	ISV ID	OEM	Type of test	Start date	GTAA/TS	# vehicles	CO <sub>2</sub> ratio	Conclusion /Deviation	Test ref.	Conclusion ref.
2024	2024-e5-0012	Ford-Werke GmbH	CDM	2025-10-16	AVL MTC AB	1	1,030	Pending	ISV-2024-E05-0012-CDM-V4	0000- ISV-2024-E05-12-CDM.jet
			CDM	2025-10-29		2	1,031		ISV-2024-E05-0012-CDM-V5	
			CDM	2025-10-30		3	1,009		ISV-2024-E05-0012-CDM-V6	
			CDM	2025-12-16		4	1,010		ISV-2024-E05-0012-CDM-V7	
			CDM	2025-12-11		5	1,064		ISV-2024-E05-0012-CDM-V8	
2024	2024-e5-0013	Hyundai Motor Manufacturing Czech s.r.o.	CDM	2025-11-25	TU Wien ATC	1	1,009	Pending	ATC 2025_073	