

REAL-WORLD TESTING RESULTS

Ford Puma

2022



The Real-World Testing Program tested a 2022 Ford Puma with a 1.0 litre turbo petrol engine. In the real-world tests, per kilometre the Puma used 8% more fuel than the mandated lab test and emitted 10% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 8 - 9 November 2023, in dry conditions with winds of 17 and 7 km/h and temperatures of 26 and 20 degrees Celsius.

Make
Ford

Model
Puma

Variants
ST-Line

Series
JK

Model Year
2022

Engine
1.0l, 3 cylinder turbo

Fuel Type
Petrol

Transmission
7 Spd Auto

Driven Wheels
FWD

Vehicle Type
Small SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **8% higher** than the lab result when tested in real-world driving conditions.

+8%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

5.3 L/100km

CO₂ EMISSIONS

121 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

5.7 L/100km

CO₂ EMISSIONS

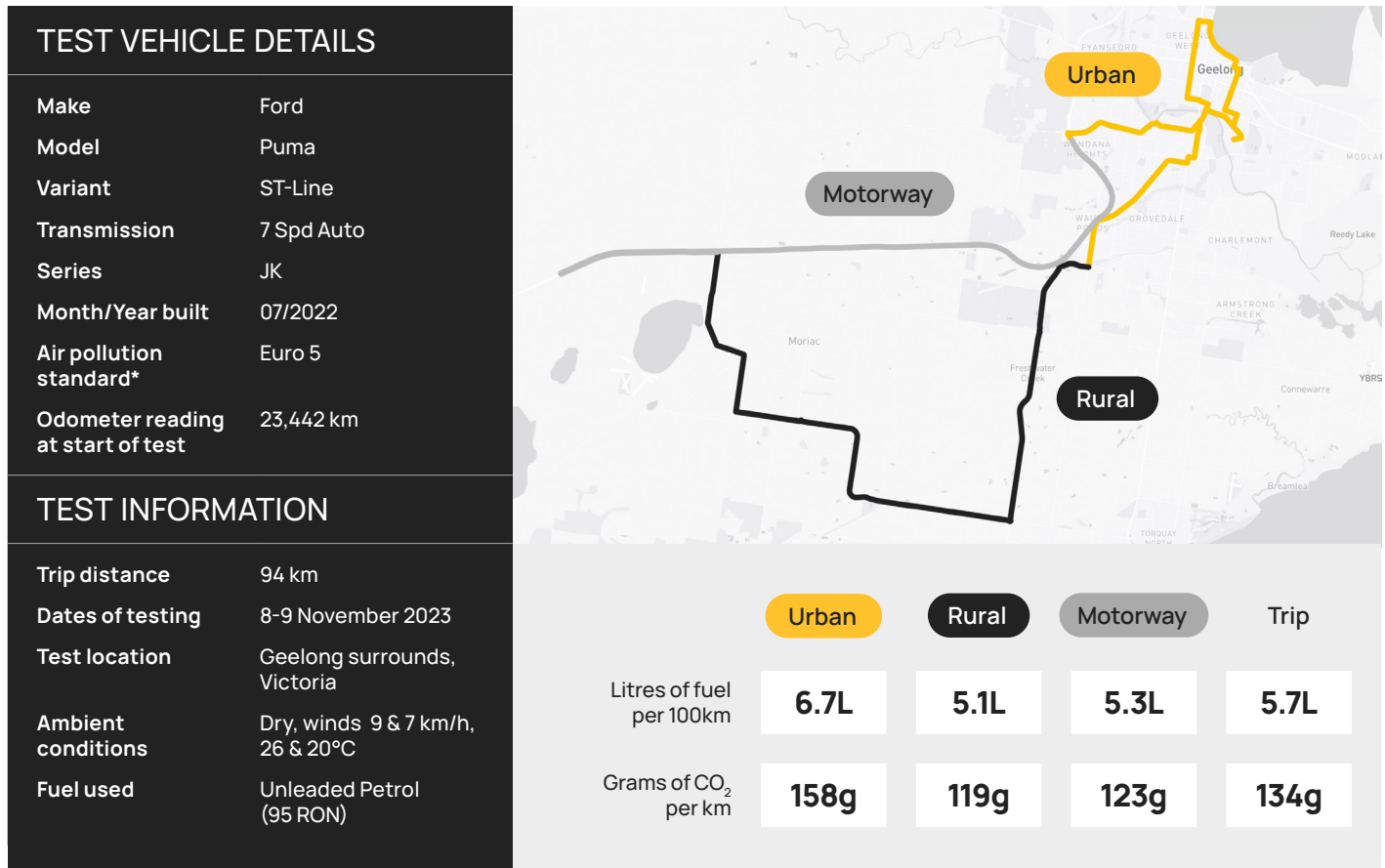
134 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the Ford Puma's measured emissions did not exceed the mandated lab limits.

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	6	302	16	not measured	5.55x10 ⁹

*As published on the Australian Government's Green Vehicle Guide (greenvehicleguide.gov.au)

**As proposed in "Light Vehicle Emission Standards for Cleaner Air Draft Regulation Impact Statement", October 2020.

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REAL-WORLD TESTING RESULTS

GWM Haval Jolion 2023



The Real-World Testing Program tested a 2023 GWM Haval Jolion with a 1.5 litre turbo petrol engine. In the real-world tests, per kilometre the Haval Jolion used 2% less fuel than the mandated lab test and emitted 2% less CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 25 - 26 October 2023, in a mix of damp and dry conditions with winds of 19 and 27 km/h and temperatures of 13 and 14 degrees Celsius.

Make
GWM

Model
Haval Jolion

Variant
Premium

Series
A01

Model Year
2023

Engine
1.5l, 4 cylinder turbo

Fuel Type
Petrol

Transmission
7 Spd Auto

Driven Wheels
FWD

Vehicle Type
Small SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **2% lower** than the lab result when tested in real-world driving conditions.

-2%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

8.1 L/100km

CO₂ EMISSIONS

186 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

7.9 L/100km

CO₂ EMISSIONS

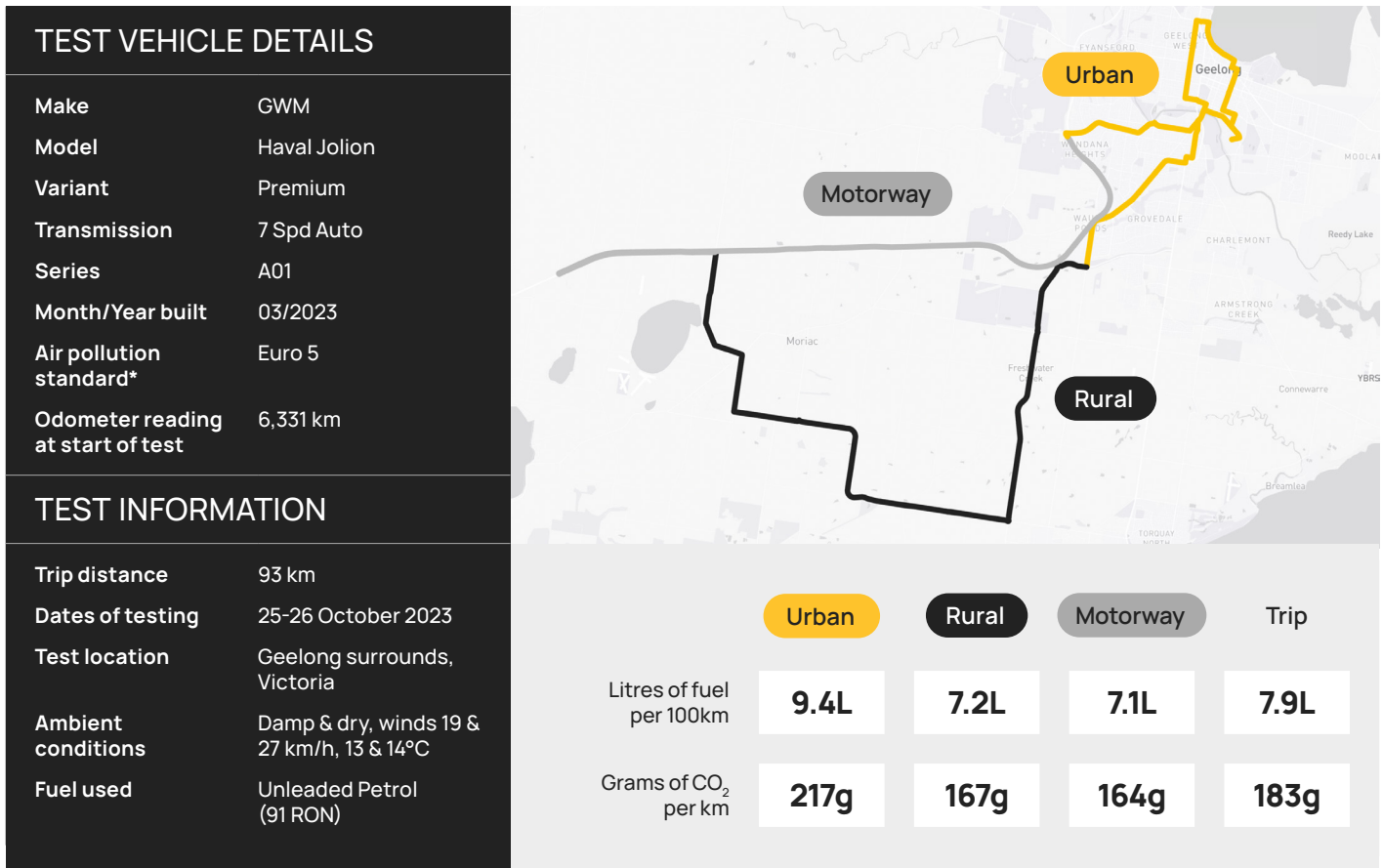
183 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the GWM Haval Jolion's measured emissions did not exceed the mandated lab limits.

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	8	128	21	not measured	9.05x10 ¹⁰

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REAL-WORLD TESTING RESULTS

Hyundai Kona 2022



The Real-World Testing Program tested a 2022 Hyundai Kona with a 2.0 litre petrol engine. In the real-world tests, per kilometre the Kona used 13% more fuel than the mandated lab test and emitted 9% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 16 - 17 October 2023, in dry conditions, with winds of 35 and 12 km/h and temperatures of 15 and 16 degrees Celsius.

Make
Hyundai

Model
Kona

Variant
STD

Series
OS

Model Year
2022

Engine
2.0l, 4 cylinder

Fuel Type
Petrol

Transmission
CVT Auto

Driven Wheels
FWD

Vehicle Type
Small SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **13% higher** than the lab result when tested in real-world driving conditions.

+13%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

6.2 L/100km

CO₂ EMISSIONS

148 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

7.0 L/100km

CO₂ EMISSIONS

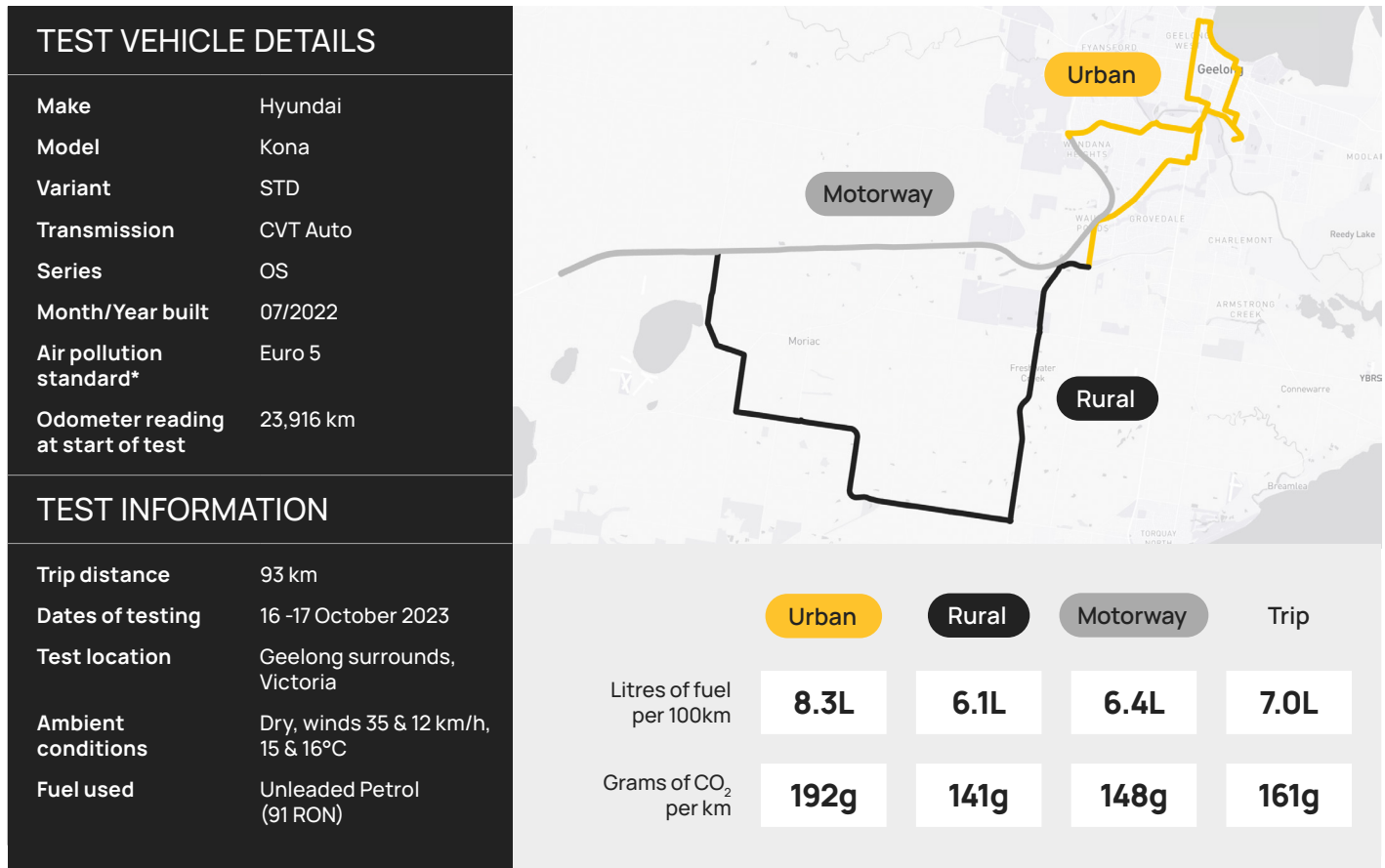
161 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the Hyundai Kona's measured emissions did not exceed the mandated lab limits.

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	27	303	13	not measured	1.13x10 ¹¹

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REAL-WORLD TESTING RESULTS

Hyundai Tucson 2022



The Real-World Testing Program tested a 2022 Hyundai Tucson with a 2.0 litre turbo diesel engine. In the real-world tests, per kilometre the Tucson used 1% less fuel than the mandated lab test and emitted 1% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 15 - 25 September 2023, in a mix of dry and damp conditions, with winds of 14, 12 and 26 km/h and temperatures of 17, 13 and 20 degrees Celsius.

Make
Hyundai

Model
Tucson

Variante
Elite

Series
NX4

Model Year
2022

Engine
2.0L, 4 cylinder turbo

Fuel Type
Diesel

Transmission
8 Spd Auto

Driven Wheels
AWD

Vehicle Type
Medium SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **1% lower** than the lab result when tested in real-world driving conditions.

-1%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

6.3 L/100km

CO₂ EMISSIONS

163 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

6.2 L/100km

CO₂ EMISSIONS

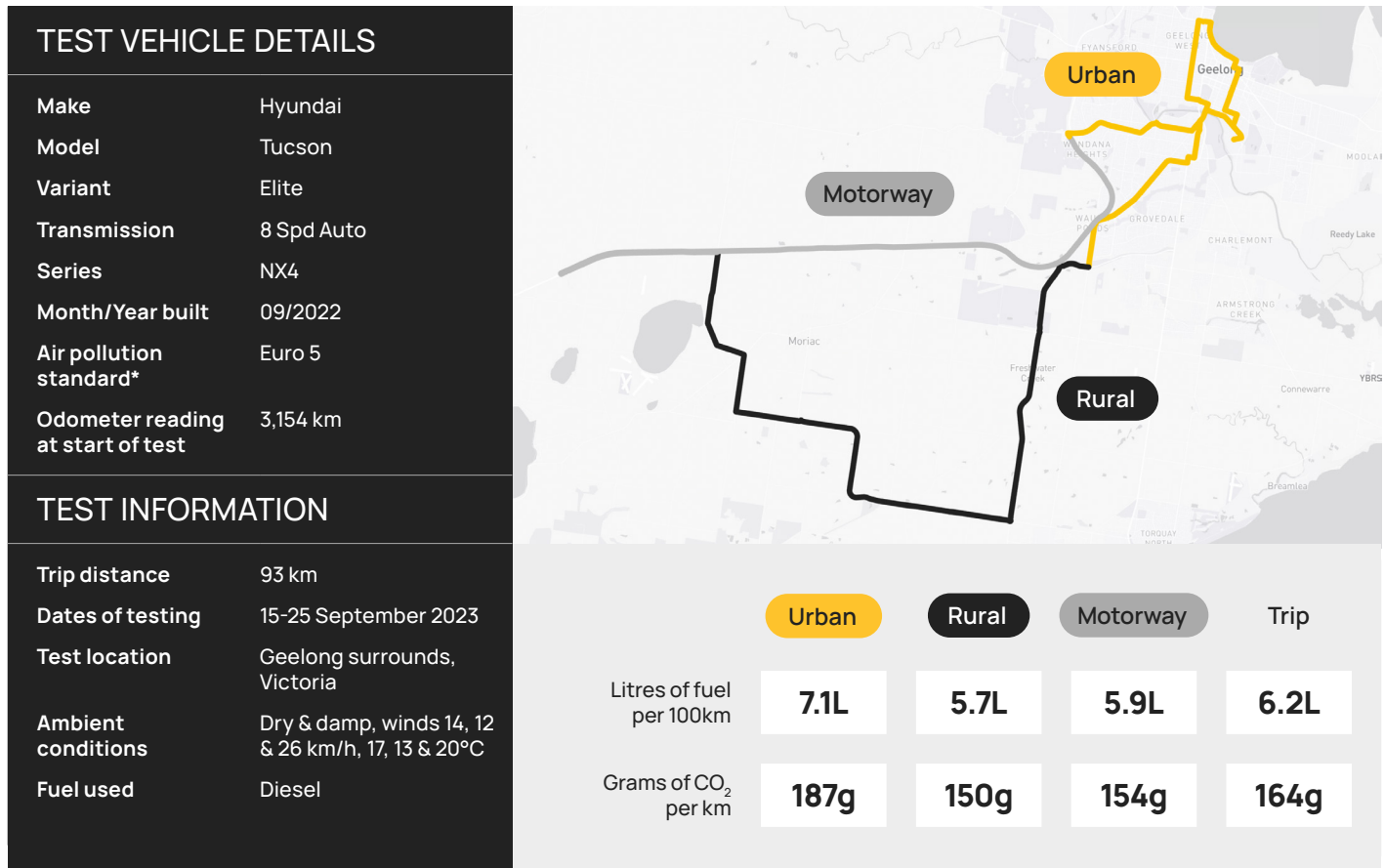
164 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC) and particle number (PN). In the real-world tests, the Hyundai Tucson's noxious emissions exceeded the mandated lab limits for NO_x. During testing, diesel particulate filter (DPF) regeneration occurred and a third test was conducted. These results are the average of all three tests.

Pollutant	NO _x mg/km	CO mg/km	THC+NO _x mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	180	500	230	6x10 ¹¹
Future proposed mandated lab limit (Euro6d)**	80	500	170	6x10 ¹¹
Real-World Test Result	237	41	284	1.67x10 ¹¹

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REAL-WORLD TESTING RESULTS

Mitsubishi ASX 2021



The Real-World Testing Program tested a 2021 Mitsubishi ASX with a 2.0 litre petrol engine. In the real-world tests, per kilometre the ASX used 8% more fuel than the mandated lab test and emitted 6% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 7 - 11 September 2023, in dry conditions with winds of 24 and 9 km/h and temperatures of 19 and 15 degrees Celsius.

Make
Mitsubishi

Model
ASX

Variant
ES

Series
XD22

Model Year
2021

Engine
2.0 litre, 4 cylinder

Fuel Type
Petrol

Transmission
CVT Auto

Driven Wheels
FWD

Vehicle Type
Small SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **8% higher** than the lab result when tested in real-world driving conditions.

+8%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

7.6 L/100km

CO₂ EMISSIONS

176 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

8.2 L/100km

CO₂ EMISSIONS

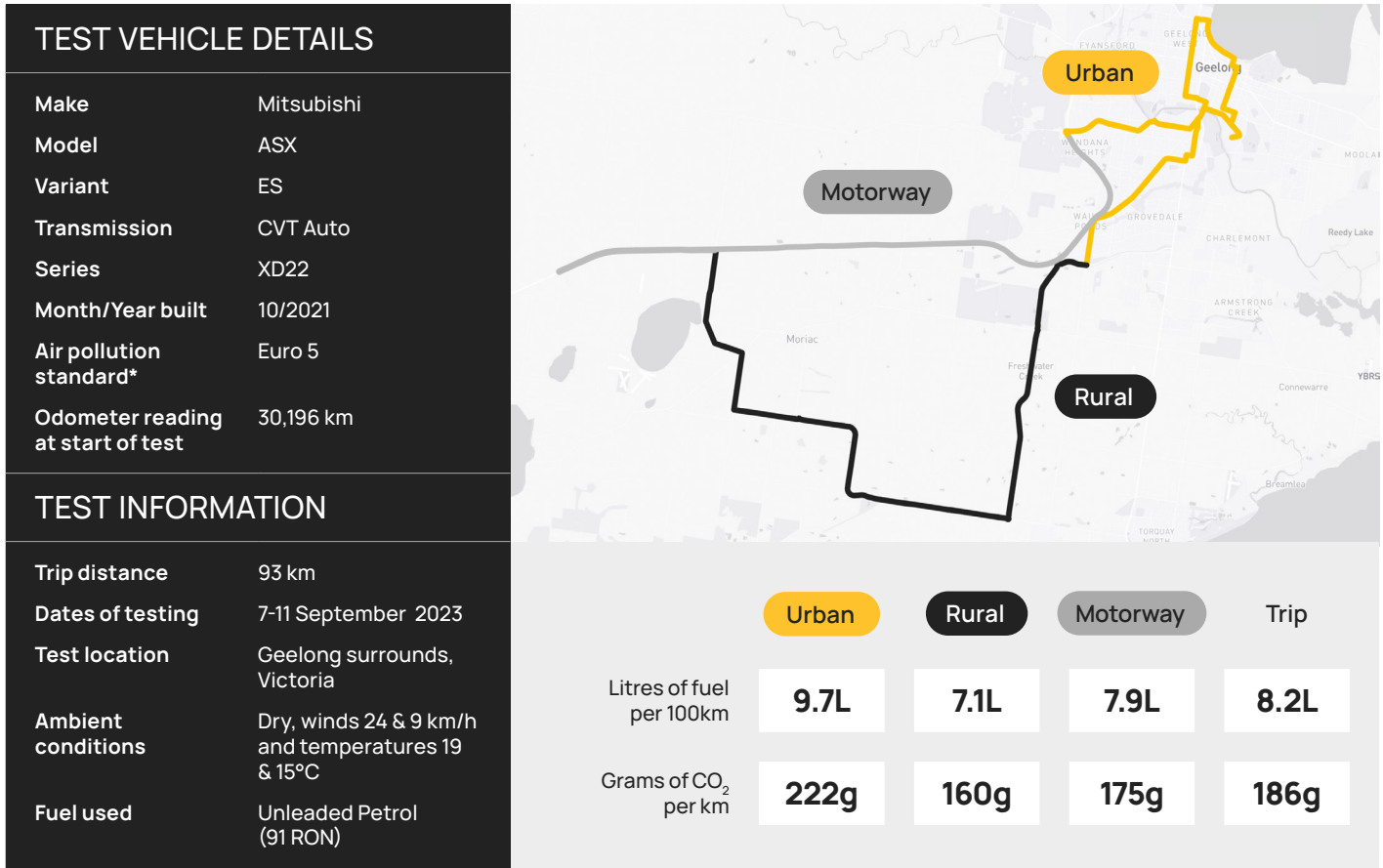
186 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the ASX's measured emissions exceeded the mandated lab limit for carbon monoxide (CO).

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	23	2850	30	not measured	1.94x10 ¹¹

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REAL-WORLD TESTING RESULTS

MG ZS

2023



The Real-World Testing Program tested a 2023 MG ZS with a 1.5 litre petrol engine. In the real-world tests, per kilometre the ZS used 8% more fuel than the mandated lab test and emitted 5% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 28 September - 2 October 2023, in dry conditions with winds of 17 and 12 km/h and temperatures of 19 and 18 degrees Celsius.

Make
MG

Model
ZS

Variant
Excite

Series
AZS1

Model Year
2023

Engine
1.5l, 4 cylinder

Fuel Type
Petrol

Transmission
4 Spd Auto

Driven Wheels
FWD

Vehicle Type
Small SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **8% higher** than the lab result when tested in real-world driving conditions.

+8%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

7.1 L/100km

CO₂ EMISSIONS

165 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

7.7 L/100km

CO₂ EMISSIONS

174 g/km

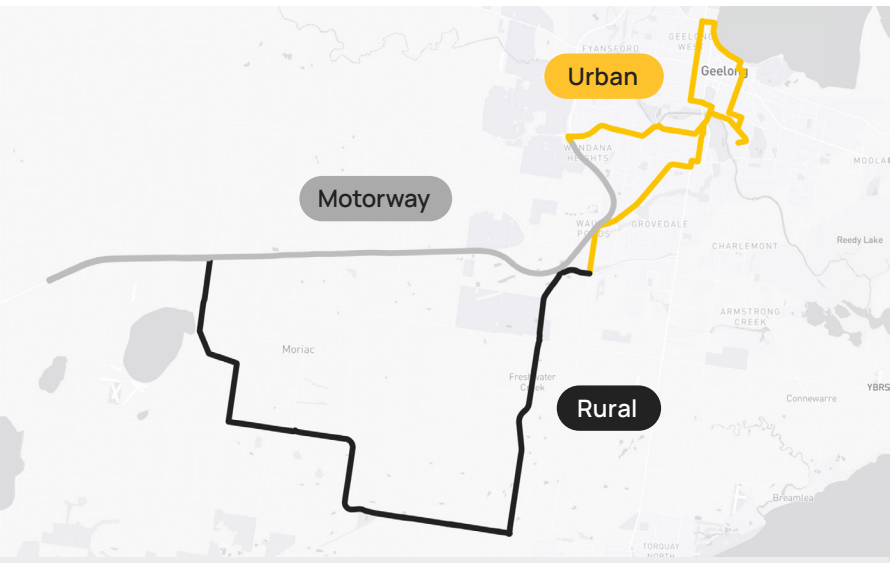
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TEST VEHICLE DETAILS	
Make	MG
Model	ZS
Variant	Excite
Transmission	4 Spd Auto
Series	AZS1
Month/Year built	04/2023
Air pollution standard*	Euro 5
Odometer reading at start of test	3,103 km
TEST INFORMATION	
Trip distance	93 km
Dates of testing	28 September - 2 October 2023
Test location	Geelong surrounds, Victoria
Ambient conditions	Dry, winds 17 & 12 km/h, 19 & 18°C
Fuel used	Unleaded Petrol (91 RON)



The map displays the test route around Geelong, Victoria. The route is divided into three segments: Urban (yellow outline), Rural (black outline), and Motorway (grey outline). The Urban segment is located in the northern part of the map, near Geelong. The Rural segment is located in the western part of the map, near Moriac. The Motorway segment is located in the central part of the map, near Geelong. The map also shows various landmarks and locations, including Geelong, Moriac, and Geelong West.

	Urban	Rural	Motorway	Trip
Litres of fuel per 100km	9.5L	6.6L	7.0L	7.7L
Grams of CO ₂ per km	216g	149g	155g	174g

NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the MG ZS's measured emissions exceeded the mandated lab limit for carbon monoxide (CO).

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	22	2207	65	not measured	6.75x10 ¹¹

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REAL-WORLD TESTING RESULTS

Nissan X-Trail 2023



The Real-World Testing Program tested a 2023 Nissan X-Trail with a 2.5 litre petrol engine. In the real-world tests, per kilometre the X-Trail used 2% less fuel than the mandated lab test and emitted 4% less CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 10 - 11 October 2023, in dry conditions with winds of 7 and 10 km/h and temperatures of 17 and 24 degrees Celsius.

Make
Nissan

Model
X-Trail

Variant
ST-L

Series
T33

Model Year
2023

Engine
2.5l, 4 cylinder

Fuel Type
Petrol

Transmission
CVT Auto

Driven Wheels
FWD

Vehicle Type
Medium SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **2% lower** than the lab result when tested in real-world driving conditions.

-2%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

7.4 L/100km

CO₂ EMISSIONS

174 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

7.3 L/100km

CO₂ EMISSIONS

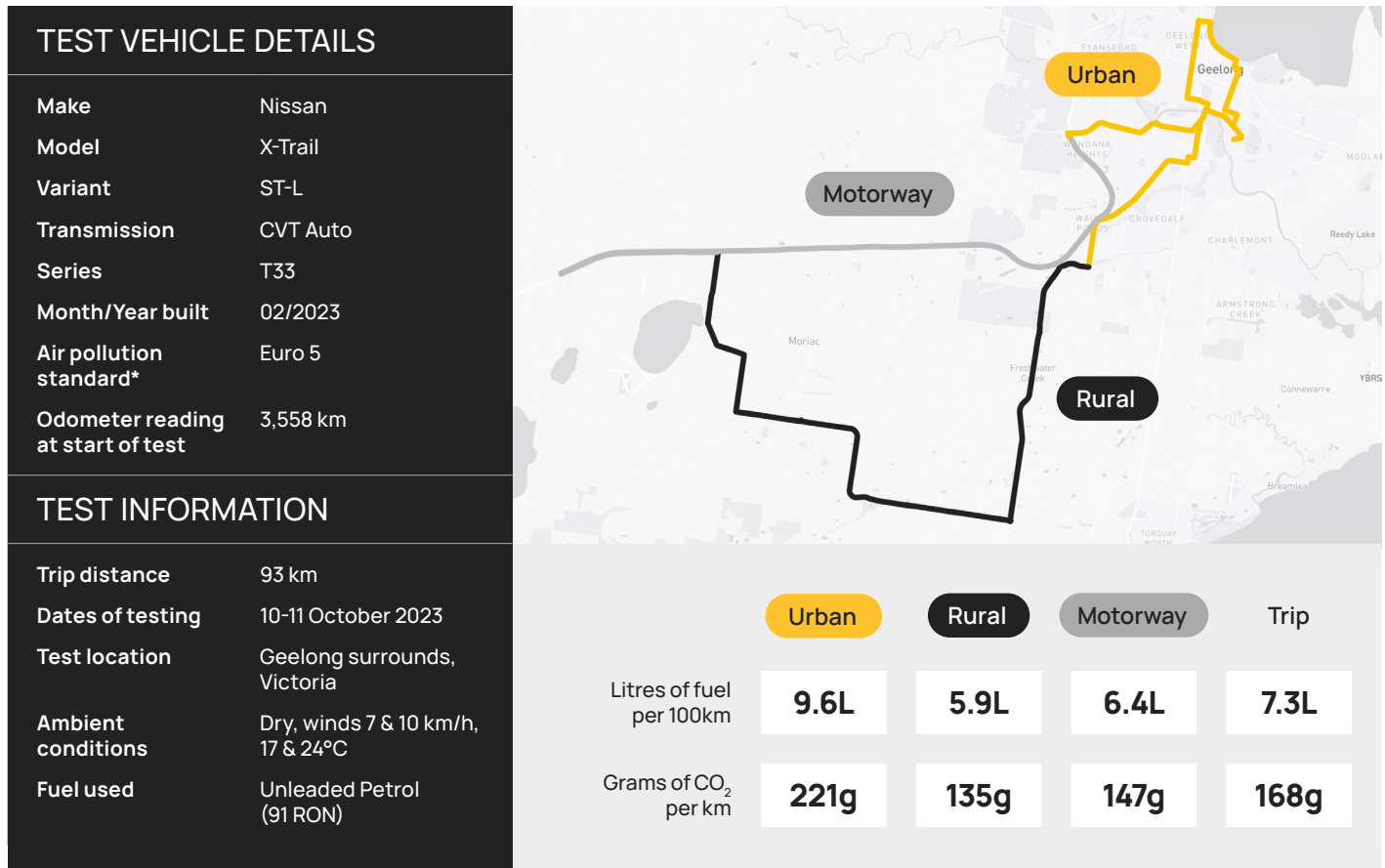
168 g/km

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NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the Nissan X-Trail's measured emissions did not exceed the mandated lab limits.

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	5	95	7	not measured	8.06x10 ¹¹

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REAL-WORLD TESTING RESULTS

Toyota RAV4 2022



The Real-World Testing Program tested a 2022 Toyota RAV4 with a 2.0 litre petrol engine. In the real-world tests, per kilometre the RAV4 used 13% more fuel than the mandated lab test and emitted 13% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 30 - 31 August 2023, in mostly dry conditions with winds of 17 and 21 k/h and temperatures of 15 and 14 degrees Celsius.

Make
Toyota

Model
RAV4

Variant
GX

Series
MXAA52R

Model Year
2022

Engine
2.0 litre, 4 cylinder

Fuel Type
Petrol

Transmission
CVT Auto

Driven Wheels
FWD

Vehicle Type
Medium SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **13% higher** than the lab result when tested in real-world driving conditions.

+13%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

6.0 L/100km

CO₂ EMISSIONS

137 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

6.8 L/100km

CO₂ EMISSIONS

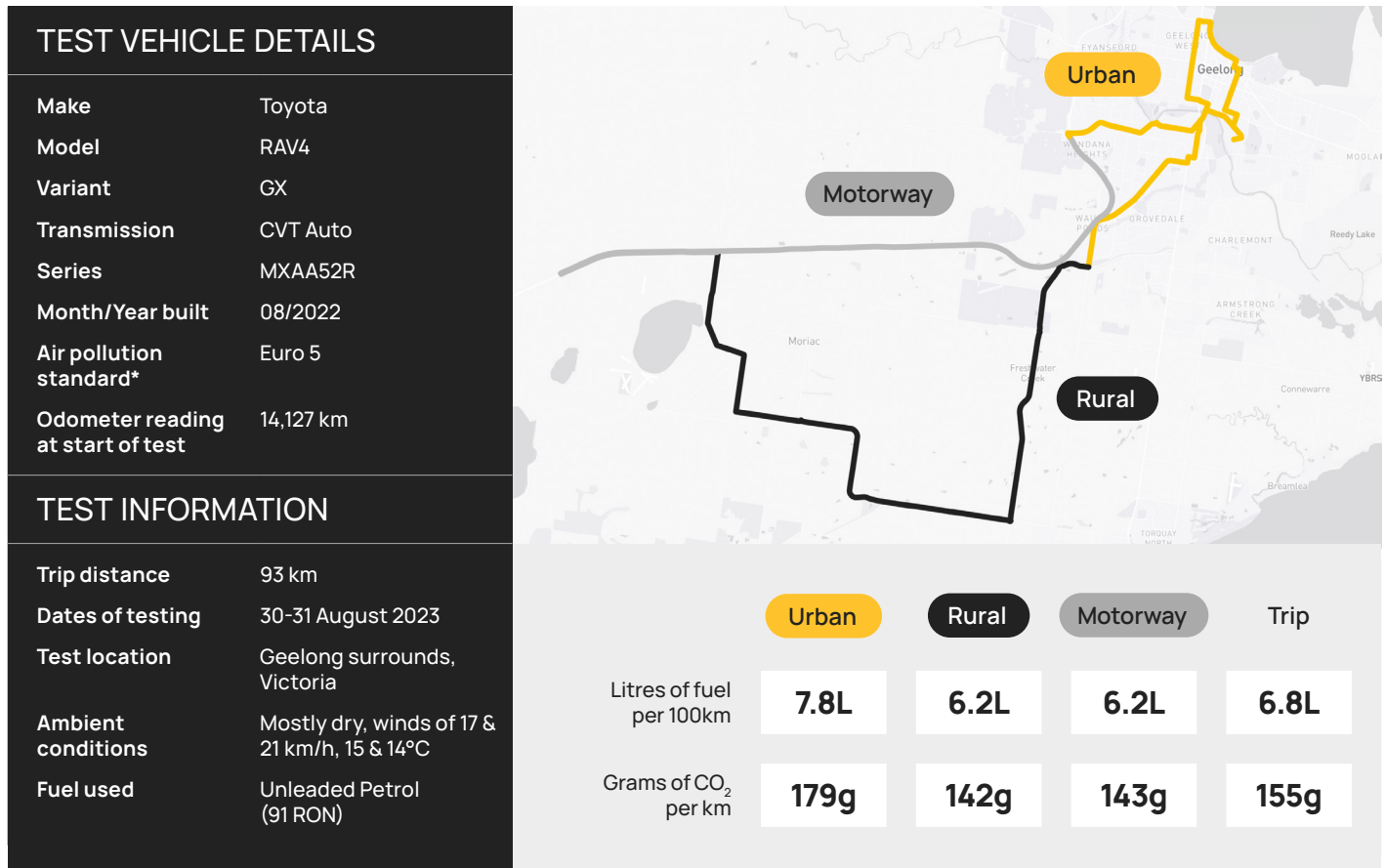
155 g/km

*These figures refer to the laboratory testing a vehicle undergoes before release on the Australian market. Fuel consumption and carbon dioxide (CO₂) emission figures quoted are measured in accordance with the Australian Government's regulated standard, Australian Design Rule 81/02, and published on the Australian Government's Green Vehicle Guide (greenvehicleguide.gov.au)

ABOUT REAL-WORLD TESTING

The Real-World Testing Program tests vehicle fuel consumption and environmental performance under real-world operating conditions on public roads. This delivers additional information on a vehicle's fuel consumption and environmental performance to that derived from lab testing. The program's operating procedures have been developed in consultation with industry and government. These protocols are designed to deliver a high level of consistency when testing different vehicles.

See how cars are tested and explore the latest models tested on our website: realworld.org.au



NOXIOUS EMISSIONS

Noxious emissions from road vehicles impact air quality. They include oxides of nitrogen (NO_x), carbon monoxide (CO), total hydrocarbons (THC), non-methane hydrocarbons (NMHC) and particle number (PN). In the real-world tests, the RAV4's measured emissions did not exceed any mandated lab limits.

Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	16	277	32	not measured	1.73x10 ¹¹

*As published on the Australian Government's Green Vehicle Guide (greenvehicleguide.gov.au)

**As proposed in "Light Vehicle Emission Standards for Cleaner Air Draft Regulation Impact Statement", October 2020.

Relevant vehicle brands have been notified prior to the publication of any vehicle testing results. Information provided on any Australian Automobile Association (AAA) ACN 008 526 369 (AAA) website, media release, publication, social media platform and/or application (Medium/s) is for information purposes only. The information provided via the Mediums is correct as at the time of publication only. The AAA does not warrant the currency or accuracy of the information thereafter. AAA will not be responsible for any claims, damages, costs or losses following any reliance placed on any information provided via the Mediums. It is your responsibility to ensure that any information provided via the Mediums are relevant and appropriate to you. The AAA provides no warranty and carries no responsibility in relation to this.



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REAL-WORLD TESTING RESULTS

Toyota RAV4 Hybrid 2022



The Real-World Testing Program tested a 2022 Toyota RAV4 with a 2.5 litre hybrid petrol/electric engine. In the real-world tests, per kilometre the RAV4 used 2% more fuel than the mandated lab test and emitted 3% more CO₂ emissions.

The vehicle was tested in the Geelong region of Victoria, Australia, between 23 - 24 October 2023, in dry conditions with winds of 19 and 33 km/h and temperatures of 14 and 23 degrees Celsius.

Make
Toyota

Model
RAV4

Variant
GX

Series
AXAH52R

Model Year
2022

Engine
2.5l, 4 cylinder petrol/
electric

Fuel Type
Petrol hybrid

Transmission
CVT Auto

Driven Wheels
FWD

Vehicle Type
Medium SUV

 Read about the Real-World Testing Program on page 2

The fuel consumption of this vehicle was **2% higher** than the lab result when tested in real-world driving conditions.

+2%

REAL-WORLD RESULT

MANDATED LAB RESULT

-50%

+50%

MANDATED LAB RESULTS*

FUEL CONSUMPTION

4.7 L/100km

CO₂ EMISSIONS

107 g/km

REAL-WORLD RESULTS

FUEL CONSUMPTION

4.8 L/100km

CO₂ EMISSIONS

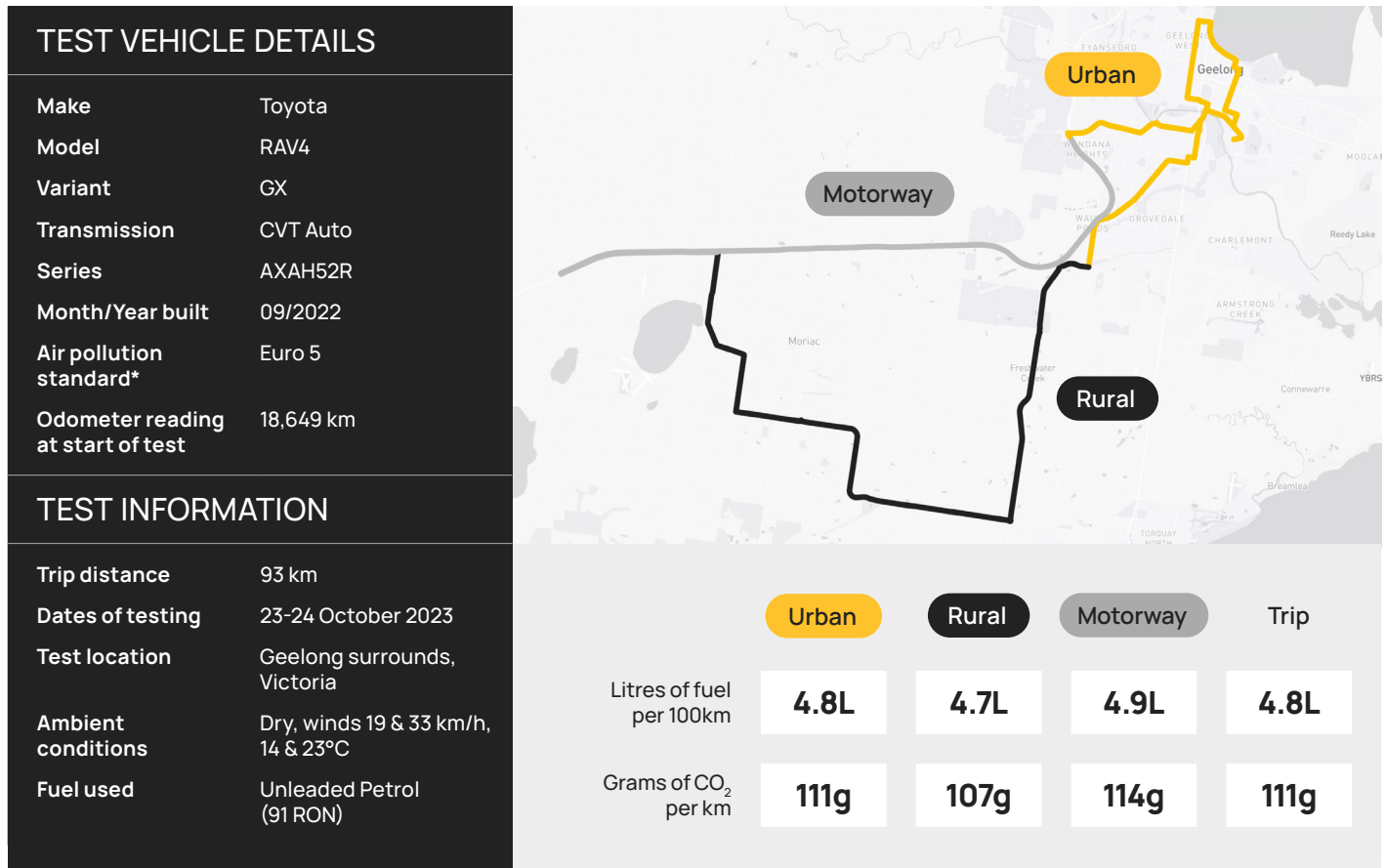
111 g/km

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Pollutant	NO _x mg/km	CO mg/km	THC mg/km	NMHC mg/km	PN number/km
Current official mandated lab limit (ADR 79/04)	60	1000	100	68	No limit
Future proposed mandated lab limit (Euro6d)**	60	1000	100	68	6x10 ¹¹
Real-World Test Result	4	67	15	not measured	1.66x10 ¹¹

*As published on the Australian Government's Green Vehicle Guide (greenvehicleguide.gov.au)

**As proposed in "Light Vehicle Emission Standards for Cleaner Air Draft Regulation Impact Statement", October 2020.

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