



2022

Kia Sportage

1.6 T-GDi 48V petrol AWD automatic



5.0 
/10

Clean Air
Index

3.2 
/10

Energy Efficiency
Index

1.5 
/10

Greenhouse Gas
Index

5.0
/10



Clean Air Tests



Laboratory Test

NMHC

NO_x

NH₃

CO

PN

2.0/10 Cold Test



7.6/10 Warm Test



4.9/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



Road Test

6.2/10 On-Road Drive



2.0/5 On-Road Short Trip



On-Road Heavy Load

Does not qualify for additional robustness testing

On-Road Light Load

Does not qualify for additional robustness testing

Congestion

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

The Kia Sportage performs well in the Warm Laboratory Test and in the real-world On-Road Drive, although the particle emission results indicate room for improvement. Additionally, in the Short Trip, NO_x emissions are elevated. The exhaust aftertreatment fails to impress in the Cold Test, where Ammonia (NH₃) and CO exceed Green NCAP's upper thresholds. In the Highway tests, points are lost due to mediocre results for NO_x and CO emissions, with particle count approaching the allowed limit. In total, the Kia Sportage 1.6 T-GDI 48V scores 5 points out of 10 in the Clean Air Index.

Energy Efficiency Tests



Laboratory Test

Energy

3.9/10 Cold Test



4.4/10 Warm Test



1.4/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing

Consumption

Driving Range

Average

7.8 l/100 km

706 km

Worst-case

9.3 l/100 km

584 km



n.a.



good



adequate



marginal



weak



poor

Comments

The Sportage is a relatively large and heavy SUV, and the 48V mild-hybrid system has only limited potential to reduce fuel consumption. The vehicle needs 6.8 l/100 km in the Warm Lab Test and 7.3 in the Cold one, whereas the On-Road Drive uses 7.6 l/100 km. As is typical for SUVs, the energy consumption in the Highway Test rises significantly – up to 9.3 l/100 km in this case. The performance in short urban trips is highly dependent on the precise conditions. Green NCAP measured 11.5 l/100 km on one such trip. The results bring the Sportage an Energy Efficiency Index of 3.2/10.

1.5 Greenhouse Gases Tests

/10



Greenhouse gases

CO₂

N₂O

CH₄

2.0/10 Cold Test



2.7/10 Warm Test



0.0/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

The Greenhouse Gas (GHG) Index is based on a Well-to-Wheel+ approach, meaning that the greenhouse gas emissions related to the supply of energy are added to the tailpipe emissions. Methane and laughing gas emissions are close to zero and grant the car the bonus points for good control. The high fuel consumption, however, results in high CO₂ emissions: in the Warm and Cold Lab Tests, 155 and 164 g/km, respectively, are measured. Adding some 41 g CO₂-eq./km related to fuel production and supply, results in 195 and 207 g CO₂-eq./km. In the Highway test, the total value reaches 264 g CO₂-eq./km.

Our Verdict

Tested here is the all-wheel drive version of the Kia Sportage 1.6 T-GDI with a 48V mild-hybrid system and an automatic transmission. The vehicle did not qualify for additional robustness testing and is rated only on the basis of the standard Green NCAP tests. The vehicle performed averagely in the Clean Air Index and collected half of the possible 10 points. While the results in the Warm laboratory Test look promising, the Cold Test with cold powertrain start and the Highway Test significantly downgrade the scores. Better particle control, as well as higher robustness in reducing the NH₃ and CO output, would benefit the Sportage. The vehicle is a relatively large and heavy SUV, and this is reflected in the car's energy efficiency performance. The fuel consumption figures are high – e.g. 6.8 l/100 km in the Warm Lab Test and 9.3 l/100 km in the Highway Test – and do not allow for more than 3.2 points in the Energy Efficiency Index. The Greenhouse Gas Index is the area where the tested Sportage performs most poorly. Although methane and laughing gas are well controlled, the CO₂ emissions measured at the tailpipe are substantial. This is caused directly by the relatively high fuel consumption levels. Adding the greenhouse gases related to the production and supply of the fuel (Well-to-Wheel+ approach), the Greenhouse Gas Index receives marginal 1.5/10 points. The declared CO₂ value and fuel consumption match Green NCAP's results. In total, the Weighted Overall Index of the Sportage is 3.2 and is enough for 2 Green stars.

Disclaimer [↗](#)

Specifications

Publication Date 12 2022	Tested Car U5YPX81BHNL00xxxx	Tyres 235/50 R19	Emissions Class Euro 6d AP
Mass 1,687 kg	Engine Size 1,598 cc	Power/Torque 132 kW/265 Nm	Declared CO ₂ 162 g/km
Declared Battery Capacity n.a.	Declared Driving Range n.a.	Declared Consumption 7.1l/100 km	



Think before you print