







Hyundai BAYON

1.0 T-GDI 48V petrol FWD automatic



3.8

Clean Air Index 5.4

Energy Efficiency Index 4.1

Greenhouse Gas Index



	Laboratory Test	NMHC	NO _x	NH ₃	со	PN
3.5 /10	Cold Test					
6.6 /10	Warm Test					
0.0 /10	Highway					
	Cold Ambient Test	Does not qu	ualify for addi	tional robustne	ess testing	
	Road Test					
5.6 /10	On-Road Drive					
1.6 /5	On-Road Short Trip					
	On-Road Heavy Load	Does not qu	ualify for addi	tional robustne	ess testing	
	On-Road Light Load	Does not qu	ualify for addi	tional robustne	ess testing	
	Congestion	Does not qu	ualify for addi	tional robustne	ess testing	













adequate marginal

Comments

The Hyundai BAYON fails to impress with its control of pollutants. Its emissions of particles are close to the upper thresholds in all tests, while CO is greatly elevated in the Highway Test, decreasing the points scored in this test. With NH₃ emissions also higher than the upper threshold, the BAYON fails to score any points here, because the gross exceedance of CO sets the whole motorway test results to zero. This leads to a mere 3.8 out of 10 points in the Clean Air assessment. On the plus side, NO_x are managed quite well, even in real world driving, with 3.5 points out of 4 in the on-road drive test.



Energy Efficiency Tests

	Laboratory Test	Energy	
6.3 /10	Cold Test		
6.5 /10	Warm Test		
3.3 /10	Highway		
	Cold Ambient Test	Does not qualify for a	dditional robustness testing
		Consumption	Driving Range
	Average	6.0 I/100 km	685 km
	Worst-case	7.7 l/100 km	519 km













Comments

The mild hybrid system ensures reasonable results in the WLTC+ tests. Once again, it is in the Highway Test that the BAYON loses most points. A bigger hybrid battery combined with a more powerful electric drivetrain could probably support the small three-cylinder engine better.















The Hyundai BAYON delivers the CO₂ levels indicated by its type approval. Indeed, in both WLTC+ cycles, the car produces even less CO2 emissions than declared. Unfortunately, the addition of greenhouse gases for fuel production and supply (Well-to-Tank+) pushes the BAYON down to a moderate 4.1 out of 10 points. Methane and laughing gas score all possible points in all tests, helping the BAYON to avoid a negative result in highway driving.

Comments



Our Verdict

August 2023: The result of this car has been updated. Previously reported Ammonia (NH2) values were incorrect owing to a technical error with the equipment at the test laboratory and a correction has been applied.

The Hyundai BAYON 1.0 T-GDI 48V scores 21/2 stars overall despite having a small engine with an even smaller electrical boost by its 48V mild hybrid system. This is not enough to balance out the problems of the three-cylinder engine especially under constant high load. The BAYON displays typical advantages and disadvantages of a petrol engine: well managed NO, emissions and sometimes high CO emissions under high load. The car is equipped with a GPF, yet in all tests it produces particles that are close to exceeding the limits at which positive points are scored.

Disclaimer 2

Specifications

Publication Date Tested Car

Tyres

Emissions Class

Mass

Engine Size

Power/Torque

Declared CO₂

Declared Battery Capacity

Declared Driving Range

Declared Consumption

