







2023

Hyundai STARIA

2.2 CRDi diesel AWD automatic



Clean Air Index

Energy Efficiency Index



Greenhouse Gas Index



	Laboratory Test	NMHC	NO _x	NH ₃	со	PN	
5.1 /10	Cold Test						
7.9 /10	Warm Test						
0.0/10	Highway						
	Cold Ambient Test	Does not qualify for additional robustness testing					
	Road Test						
7.9 /10	On-Road Drive						
2.9 /5	On-Road Short Trip						
	On-Road Heavy Load	Does not qualify for additional robustness testing					
	On-Road Light Load	Does not qu	Does not qualify for additional robustness testing				
	Congestion	Does not qualify for additional robustness testing					

Comments

adequate marginal

weak

good

The Hyundai STARIA scores well in the Warm start lab test, but a cold engine start increases the particle output and NO_{x} emissions. The challenging BAB130 Highway Test reveals a weakness of the exhaust aftertreatment with 150 g/km NO_{x} emissions being emitted – far above the upper threshold of 60 mg/km. In this case, the emissions behaviour loses robustness despite the LNT and SCR catalysts. The On-Road drive confirms the results of the WLTC+ Lab Tests and lets the car demonstrate good Clean Air performance, as long as the test requirements remain moderate.



Energy Efficiency Tests

	Laboratory Test	Energy	
0.5 /10	Cold Test		
1.3 /10	Warm Test		
0.0 /10	Highway		
	Cold Ambient Test	Does not qualify for a	dditional robustness testing
		Consumption	Driving Range
	Average	9.4 I/100 km	811 km
	Worst-case	11.1 I/100 km	678 km













Comments

The STARIA is a large van of 2,400 kg kerb weight, and naturally use a lot of energy to move. It scores only 0.5 points out of 10 in this part of the assessment. The lowest consumption of 8.1 I/100 km is recorded in the On-Road Drive and the worst 11 I/100 km - in the Highway Test. With 8.9 and 8.2 I/100 km, the figures in the Cold and Warm Lab Tests are also high, but not surprising for this kind of vehicle.

Greenhouse gases	CO2	N ₂ O	CH₄	
0.0 /10 Cold Test				
0.0 /10 Warm Test				
0.0 /10 Highway				
Cold Ambient Test	Does not	qualify for ad	ditional robustness	testing













Comments

Due to the high consumption values, the STARIA cannot be rewarded any points in this part of the assessment. Following the Well-to-Wheel+ approach, in the Cold lab test, 43 g CO₂-eq./km for the diesel supply are added to the 232 g/km CO₂ at the tailpipe. Additionally, the CO₂-equivalent values of the CH₄ and N₂O emissions must be considered. The result is 286 g CO_2 -eq./km - significantly above the 225 g CO_2 -eq./km threshold set by Green NCAP. Furthermore, the STARIA fails to control CH_a and N_aO efficiently and loses half of the possible bonus points.



Our Verdict

The Hyundai STARIA is large 7-seat van with a 2.2 litre Diesel engine and a technically permissible maximum laden mass of 3,030 kg. The utility value of the vehicle should be acknowledged when analysing the fuel consumption figures, but in Green NCAP's neutral approach the car can't score in terms of sustainability. The heavy van needs 8.9 l/100 km in the Cold lab test and 11 l/100 km in the Highway Test. While the reasons for the poor results in the Energy Efficiency and Greenhouse Gas Indexes are obvious, the STARIA's exhaust aftertreatment behaviour also fails to impress. It scores zero points in the Highway Test due to exceedance of the NO_{x} threshold, which limits the overall Clean Air result to 5.3/10. an Average Score of 96% the Hyundai STARIA receives 1 Green star and closely misses one more half of a star.

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Specifications

Publication Date	
04 2023	

Tested Car KMHYF811DNU05xxxx Tyres I :35/55R18

Emissions Class

Mass

Engine Size

Power/Torque 130 kW/430 Nm Declared CO₂ 232 g/km

Declared Battery Capacity

Declared Driving Range

Declared Consumption 8.91/100 km

Heating Concept Waste heat

