



2021

Volvo XC60

B4 diesel 4x4 automatic



6.7 
/10

Clean Air
Index

2.5 
/10

Energy Efficiency
Index

0.0 
/10

Greenhouse Gas
Index

6.7
/10



Clean Air Tests



Laboratory Test

	NMHC	NO _x	NH ₃	CO	PN
6.9/10 Cold Test	adequate	adequate	good	adequate	marginal
8.1/10 Warm Test	good	good	good	adequate	marginal
6.0/10 Cold Ambient Test	good	marginal	good	adequate	marginal
7.3/10 Highway	adequate	good	good	good	weak



Road Test

6.4/10 On-Road Drive	n.a.	adequate	n.a.	adequate	weak
5.4/8 On-Road Heavy Load	n.a.	good	n.a.	good	weak
3.5/5 On-Road Light Load	n.a.	good	n.a.	good	marginal
3.6/5 On-Road Short Trip	n.a.	marginal	n.a.	adequate	good
0.0/2 Congestion	n.a.	weak	n.a.	n.a.	n.a.



Robustness



n.a.



good



adequate



marginal



weak



poor

Comments

The XC60 shows very good control of pollutant emissions, even in the more challenging tests. Particulate number is low, values of ammonia, NH₃, are barely measurable and, with the exception of the congestion test, NO_x is kept in check.

2.5
/10



Energy Efficiency Tests



Laboratory Test

Energy

3.7/10 Cold Test



4.2/10 Warm Test



0.6/10 Cold Ambient Test



1.5/10 Highway



Consumption

Driving Range

Average

7.3 l/100 km

1,047 km

Worst-case

8.8 l/100 km

807 km



n.a.



good



adequate



marginal
















weak



poor

Comments

The XC60 is a large, heavy car and this counts against its energy efficiency. The car has an average consumption of 7.3 l/100 km and its index in this part of the assessment is 2.5.

	<u>Greenhouse gases</u>	CO ₂	N ₂ O	CH ₄
0.0/7	Cold Test			
0.0/7	Warm Test			
0.0/7	Cold Ambient Test			
0.0/7	Highway			



n.a.



good



adequate



marginal



weak



poor

Comments


Emissions of Methane, CH₄, are not high. However, those of CO₂ and of laughing gas, N₂O, are above Green NCAP's upper limits. The negative points for these greenhouse gases offset those gained for CH₄ and the vehicle ends up with a index of 0 in this part of the assessment.

Our Verdict

The XC60 is tested here with the 2.0 litre turbodiesel engine. Its exhaust after-treatment does an excellent job of controlling pollutant emissions. Particulate number is very low for a vehicle of this type and low emissions of other pollutants lead to an impressive 6.7/10 in this part of the assessment. Sadly, this level of performance is not repeated in energy efficiency or emissions of greenhouse gases. The car's size and weight count against it and it gets 2.5/10 for Energy Efficiency. But it is in the area of greenhouse gases that the XC60 B4 really performs poorly, with values of N₂O sufficiently high that the car scores nothing in this part of the assessment. Overall, the Volvo's average index only just puts it into the 2 star band.

Disclaimer

Publication Date	Tested Car	Emissions Class	Tyres
02 2021	YV1UZK5UCM171xxx	Euro 6d-Temp	255/40 R21
Mass	Engine Size	Engine Power/Torque	Published CO ₂
1,952 kg	1,969 cc	145 kW/420 Nm	167 g/km
Declared Battery Capacity	Published Driving Range		
n.a.	n.a.		

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