

Alfa Romeo Tonale

1.5 VGT 48V-HYBRID PETROL FWD AUTOMATIC



5.5 
/10

**Clean Air
Index**

4.4 
/10

**Energy Efficiency
Index**

2.7 
/10

**Greenhouse Gas
Index**

5.5
/10



Clean Air Tests



Laboratory Test

NMHC

NO_x

NH₃

CO

PN

3.7/10 Cold Test



7.3/10 Warm Test



3.4/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



Road Test

7.6/10 On-Road Drive



3.2/5 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

In the laboratory, exhaust gas aftertreatment is handled well in the Warm Laboratory Test, while in the other tests the overall results fail to impress. Ammonia (NH₃) emissions are too high in all lab tests and the car also emits three times more carbon monoxide when starting with a cold engine compared to a pre-warmed powertrain start. On the plus side, pollutants are managed well in the On-Road test. Particulate emissions are reasonably well reduced with the installed GPF. The Tonale is able to score an average 5.5 points out of 10 for Clean Air.

Energy Efficiency Tests



Laboratory Test

Energy

5.3/10 Cold Test



5.5/10 Warm Test



2.6/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing

Consumption

Driving Range

Average

6.8 l/100 km

826 km

Worst-case

8.3 l/100 km

662 km



n.a.



good



adequate



marginal



weak



poor

Comments

In the tested Tonale, the turbocharged petrol engine is supported by a mild-hybrid system. The Alfa Romeo scores average for fuel consumption with around 6 l/100 km in the Warm and Cold laboratory tests. The more challenging BAB130 Highway Test requires 8.3 l/100 km as the mild-hybrid system is not able to assist enough during high accelerations and speeds and the SUV body type take its toll on the aerodynamic drag. On the positive side, the On-Road Drive was performed with just 5.3 l/100 km, while an impressive 4.2 l/100 km were enough in the Short Trip.

Greenhouse Gases Tests



Greenhouse gases

CO₂

N₂O

CH₄

3.9/10 Cold Test



4.2/10 Warm Test



0.4/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

CH₄ and N₂O emissions are very low and help earn the bonus points in all tests. In the WLTC test, the Tonale confirms its official CO₂ output, but added upstream (Well-to-Tank+) emissions push the overall greenhouse gas emissions to around 170 g/km. Carbon dioxide exceeds Green NCAP limits in the more challenging Highway Test and brings a result of total 236 g CO₂ equivalent per kilometre, fuel production and supply emissions of ca. 50 g CO₂-eq./km inclusive.

Our Verdict

The Alfa Romeo tested here is a SUV with a 1.5 l turbocharged petrol engine that is supported by a 48 V mild-hybrid system, providing 118 kW of peak total system power. Like most other fossil fuelled cars, it struggles most with greenhouse gas emissions. Pollutants are averagely well managed, but increased ammonia (NH₃) output and CO handling are challenging for the Italian. The consumption values depend on the situation – from ca. 5 l/100 km in the standard On-road Drive to 8.3 l/100 km in the Highway Test. Overall the Alfa Romeo Tonale 1.5 VGT 48V-Hybrid reaches an average score of 42% and receives 2½ Green stars.

Disclaimer [↗](#)

Specification

Tested Car

ZARNASCA7N300xxxx

Publication Date 11 2023	Vehicle Class Small SUV	Tyres 235/45 R19	Emissions Class Euro 6d AP
Mass 1,535 kg	Engine Size 1,469 cc	Power/Torque 118 kW/240 Nm	Declared CO₂ 135 g/km
Declared Battery Capacity n.a.	Declared Driving Range n.a.	Declared Consumption 5.9 l/100 km	

Heating Concept

Waste heat



Think before you print