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## Volvo V60 Recharge – Road Test (plus Volvo range electrification news)

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VOLVO GOES ON WRAPPING UP PREPARATION FOR ITS MODEL + V60 RECHARGE (OPTIONAL)

By David Miles (Miles Better News Agency)

Volvo, part of the Chinese Geely industrial conglomerate, is now well known for their commitment to full electrification of all their models by 2025. They have recently confirmed they will develop and assemble their own electric motors at their powertrain plant in Skovde Sweden. The very first Volvo from 1927 was powered by a petrol engine from the same factory.



Currently many vehicle manufacturer's electric motors are components bought-in from specialist e-motor manufacturers but just like petrol and diesel engines vehicle manufacturers need to start developing their own electric power units to differentiate themselves from their competitors and to meet their specific needs.

Volvo said taking over the role of the internal combustion engine in car engineering, e-motors are a fundamental building block of electric cars, together with the battery and power electronics. The interplay between these three component areas is crucial in developing premium electric cars.

Bringing the development and production of e-motors in-house will allow Volvo Cars' engineers to further optimise electric motors and the entire electric driveline in new Volvos. This approach will allow engineers to make further gains in terms of energy efficiency and overall performance.

Volvo adds they are committed to becoming a premium electric car company and aims for its global sales to consist of 50% fully electric cars by 2025 with the rest being hybrids.



And it's the hybrid model I've been trying recently - namely the Volvo V60 Recharge T6 Plug-in Hybrid AWD Inscription automatic. Have you noticed how long car title names have become and this Volvo is no exception with the new word Recharge added? In short it's a mid-sized estate with a turbo petrol engine, automatic transmission with an electric motor with 4WD, and needs to be charged regularly from the mains electricity to make it fuel and CO2 efficient.





Although today's Volvo range is probably most popular because of the faddy must-have supposedly status-elevating SUVs, Volvo is known longer for their large saloons and even better known over a 60 year history for their large estate cars which used to be the vehicle of choice for antique dealers.

Today Volvo has V60 mid-sized and V90 large sized estates, their saloon counterparts are S60 and S90 and their SUV counterparts are XC60, XC90 and the newer and smaller XC40. So logic says look out for new V40 estate and S40 saloons to appear in due course as the previous versions have now ceased production.





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The V60 range sells in the premium mid-sized estate sector where the Audi A4 Avant, BMW 3 Series Touring and Mercedes C-Class Estate are the main-players especially for corporate business lease and rental registrations. Most are available with petrol, diesel and some form of electrification drivetrains but it's the Volvo V60 that has by far the largest load area of 658 litres (23.24 cu.ft) with the three rear seats still in use and up to 1,441 litres (50.89 cu.ft) with the rear seats folded down.



The V60 on the road prices range from £34,410 for the lowest spec 2.0 litre petrol 163 hp 2WD model to £51,530 for the T8 Recharge by Polestar Engineered Plug-in-Hybrid 318+87 hp AWD version. There are also the single high spec Cross Country 2.0 litre 250 hp petrol and 2.0 litre 197 hp diesel AWD automatic versions priced at £41,160 and £41,660 respectively. Depending on the power unit chosen the spec levels available through the range are Momentum, R-Design, Inscription, Polestar Engineered and Cross Country.

My test drive version - the T6 Recharge PHEV 253+87 hp AWD automatic with Inscription spec, is priced at £46,130, by comparison the same spec 2.0 litre petrol B5 250 hp 2WD model with automatic transmission is priced at £41,160 or the B4 2.0-litre 197 hp diesel 2WD auto at £41,335. So there is a hefty price penalty to go the Recharge electrification route but with the low CO2 emissions of 42 g/km the all important Benefit-in-Kind tax rate is





10% whilst the 156 g/km petrol is 34% and the diesel 146 g/km is 32%. There is also a saving on First Year road tax with the Recharge PHEV being £0, the petrol £530 and the diesel £205.

We should also consider, or compare, the latest WLTP fuel consumption figures. The T6 Recharge PHEV has an official Combined Cycle figure rating of 134.5 mpg, the B5 petrol 37.7 mpg and the B5 diesel 45.5 mpg. The T6 Recharge PHEV will also officially cover 34 miles in electric power only. BUT I point out that those are official figures.

My week long test driving with the T6 Recharge PHEV returned at best with the battery pack fully charged 88.2 mpg over a distance of 80 miles of motorway cruising and dual carriageway motoring. For the return journey, when the electric power charged from the mains had run out and the battery was restricted to regenerative charging, it was petrol drive only most of the way home and the figure for that journey was 32.5 mpg.

As I say each time I test drive a PHEV of any make, drivers must make use of the mains battery charging for these vehicles to be fuel and CO2 efficient. Of course some company car owners/drivers don't do that and just use the petrol engine and reap their own benefits from the low tax costs. Where the PHEV benefits all users compared to pure electric car drivers is there is no driving range anxiety. Charge up at home or work and you can miss out having to use the likely not working or already taken public charging points. But wherever you charge-up be prepared to wait for the battery to be replenished. But charging is a messy business especially in this weather with wet and muddy cables to be used and stowed in the estate as large as the boot is, but at least there is a bag to put the cables in. When is somebody going to come up with a retractable cable system for their PHEV or pure electric cars?

I've written road tests about the V60 before so I'm not going to elaborate too much on the fixtures and fittings. Suffice to say it's a quality, smart looking inside and a mid to large estate. It's very comfortable to travel in and easy to drive.



It is 4,761 mm (15.62 ft) long with a wheelbase of 2,872 mm (9.42 ft) so there is plenty of rear seat legroom for three adults. There is width of 1,916 mm (6.29 ft) and the height is 1,437 mm (4.71 ft) so it's long and sleek with plenty of kerb appeal but it does fill-up public car parking spaces, making getting in and out of the car difficult for side by side parking locations. The boot and load space is going to be a big in all ways selling point for any estate car users. With the rear seats in use there are 658 litres (23.24 cu.ft) of space and with the seats folded down this goes up to 1,441 litres (50.89 cu.ft), way ahead of the competition in its class - excepting only the excellent and much praised Skoda Octavia Estate comparable for space. If you want more load space then of course the Volvo V90 estate is available and





its competitor size-wise is the Skoda Superb Estate.

All V60 models have as standard a 9-inch centre console touchscreen with voice-activated control, Volvo On Call with app available for your smartphone, smartwatch or tablet and this enables the user to control various car functions remotely and also acts as an emergency and tracking service. Also standard-fit are, Sensus Navigation with full European mapping with traffic information and lifetime map updates, Sensus Connect allowing users to access a range of web apps, a data SIM card provides up to 100GB of data for 12 months, also there is City Safety with Steering Support including pedestrian, cyclist and large animal detection plus front collision warning with fully automatic emergency braking and steering assistance. There is also Oncoming Lane Mitigation that automatically provides steering assistance if the user unwittingly drifts out of their lane and guides them back into their lane and out of the path of any oncoming vehicles, Run-off Road Protection that automatically tightens the front seatbelts should the car inadvertently leave the road, LED headlights with active high beam, two-zone climate control with CleanZone air-quality system, power-operated tailgate, rear parking sensors, cruise control with speed limiter, hill-start assist and a 12.3-inch active TFT crystal driver's information display.

This slideshow requires JavaScript.

And so through the range the spec moves upwards with the Inscription level being one of the highest but still extra cost options can be added such as a parking 360-degree all-round camera, surround safety alerts plus lots of lifestyle accessories such as bike and ski racks, different alloy wheels, tow bar, heated front/rear seats and steering wheel. But amazingly Apple CarPlay and Android Auto connectivity comes as part of an extra cost £2,500 Tech Pack which includes Bowers and Wilkins upgraded sound system. My exact test car with options actually weighed in at a hugely costly £54,995, far too expensive even allowing for its generous size and equipment.

But it's the Recharge application we are really reviewing in this road test. The turbo 2.0 litre petrol engine pushes out 253 hp there is an additional 87 hp from the electric motor



and generator. There is a good amount of all-important responsive torque of 400 Nm (295 lb.ft) from 2,200 rpm. Drive is through an 8-speed automatic gearbox as standard with the petrol engine driving the front wheels and the electric motor the rear wheels to provide the on-demand AWD function. Whilst top speed of 112 mph is not swift it's the acceleration time of 5.4 seconds for the zero to 62 mph sprint that got my attention. That's faster than many sports cars and much of that is down to the grunt the electric motor initially provides plus the on-going power of the turbocharged petrol engine.

There is the usual variety of driving modes from Pure to Power with the Hybrid mode being the advisory one for everyday motoring, which I used most of the time. The system shuffles imperceptibly between petrol and electric power and the engine just shuts down in its coasting mode. There is some regenerative braking energy capture on downhill winding roads or stop start driving coming up to traffic lights and road junctions, feeding electricity into the battery. But on long motorway trips there are very limited opportunities for energy capture to work. The gearbox B (Battery) mode does allow the driver the opportunity to select regenerative braking opportunities by shuffling from D (Drive) and into B mode to operate the adjustable rate regenerative braking function. It almost allows for one-pedal driving and cuts down on the need for braking as the electric motor/generator captures the energy and slows the car. It's a neat function once you get used to it.

## VERDICT

In conclusion, with PHEVs such as this Volvo V60 T6, the fuel economy is so variable as my week of driving proved, and all of it was done in a responsible way by keeping to speed limits and charging the estate from the mains when possible. The real-life fuel consumption figures ranging from as low as 32.5 mpg to 88.2 mpg fell well short of the official 134.5 mpg and the all-electric driving range of 34 miles on a single full battery charge couldn't be replicated, with 27 miles achieved during my shopping trips. Having said all that there was no driving range anxiety and if I was a company car driver I'd be happy with the low Benefit-in-Kind tax penalty plus the zero cost First Year VED road tax benefits all users.

PHEVs or Recharge models as Volvo calls them are important additions to all car ranges





these days as we take steps from using cars solely with combustion engines to becoming users of sole electric powered vehicles. These are steps we have to take.

**For:** Recharge PHEV technology is a pragmatic step towards electrification if used properly by the motorist, beautifully built car, quality interior, comprehensive safety support functions, high-ish standard spec, roomy interior for passengers and luggage, low company car tax costs, potential for good fuel economy.

**Against:** Becomes very expensive if options are added, some options should be standard fit for this Inscription version, fiddly touchscreen operates too many basic functions, fuel economy plummets and CO2 emissions rise if plug-in mains charging is not used regularly, ungenerous main warranty.



Milestones and Wheels-Alive Tech. Spec. in Brief:

Volvo V60 Recharge {Plug-in-Hybrid T6 AWD Inscription estate.

Price: £46,130 (£54,995 as tested with optional extras).

Powertrain: 2.0 litre, 4-cylinder turbo petrol engine 253 hp plus 87 hp electric motor, 400 Nm (295 lb.ft) of torque from 2,200 rpm, 8-speed automatic transmission and AWD traction. Performance: 112 mph, 0 - 62 mph 5.4 seconds, WLTP Combined Cycle 134.5 mpg ( on test 32.5 to 88.2 mpg), actual full charge all-electric driving distance





27 miles.

Emissions and taxation: CO2 42 g/km, VED Alternative Fuel First Year road tax £0 then Standard rate £140 + £325 annually for 5-years as it costs over £40k, BiK company car tax 10%.

Insurance Group: 42E.

Warranty: 3-years/60,000 miles and PHEV battery 8-years/100,000 miles.

Dimensions/capacities: L 4,761 mm (15.62 ft), W 1,916 mm (6.29 ft), H 1,437 mm (4.71 ft), wheelbase 2,872 mm (9.42 ft), boot/load space 658 to 1,441 litres (23.24 to 50.89 cu.ft), braked towing weight 2,000 kg (4,409 lb), 5-doors/5-seats.

**Finally: Have a Merry Christmas and a safe and healthy New Year, David Miles.**

Kim adds: I'd like to thank David personally for his consistent and much-appreciated help with providing his comprehensive articles for Wheels-Alive readers throughout this turbulent year.



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