

Trust Vauxhall

Protecting the environment

Vauxhall's commitment to the environment is demonstrated by our products' many environmental awards, won both through the use of more recycled materials and by becoming cleaner and more efficient. For information on Vauxhall's efforts to achieve an environmentally sustainable future, see www.vauxhall.co.uk/recycling

Fleet Customer Services

Our dedicated support services for fleet managers includes factory demonstrators, a three-day test drive programme and information on whole life costs, company car taxation and finance. For further information please call **0870 010 0651**.

Buying your car

GMAC offers one of the most comprehensive and competitive ranges of financing plans in the UK. Contact your local Vauxhall retailer for details or call the GMAC customer service centre on **0845 712 3444**.

Sureguard protection

Sureguard Assistance offers the benefits of Vauxhall Assistance for three years from first registration, while Sureguard Warranty also provides a parts and labour warranty for high-mileage or long-term owners. For details contact your local Vauxhall retailer or call **0870 752 7020**.

Specialist Mobility advice

Motability accredited Vauxhall retailers can provide special mobility help and advice. Blue badge holders are entitled to very favourable discounts on new vehicles. Contact your local Motability accredited Vauxhall retailer or **Freefone 0800 731 5267**.

Servicing and maintenance

The best way to maximise the performance and reliability of your Vauxhall is to have all routine servicing and maintenance carried out at one of around 400 Vauxhall retailers. To find your nearest retailer call **0845 600 1500**.

In the event of an accident...

Vauxhall Accident Support helps keep you mobile following an accident. Benefits include scene-of-accident advice, message service, assistance with claims and vehicle recovery. Call **0800 010 304** for a free driver's pack.

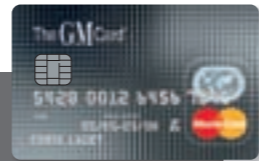
Vauxhall Insurance

Available for new and used Vauxhalls, a Vauxhall Insurance policy offers a unique package designed specifically for Vauxhall drivers. For a highly competitive quotation, call **0870 024 0240** or visit our website at www.vauxhall.co.uk.

For more information...

For a brochure on any Vauxhall model (up to a maximum of three per caller) or location of your nearest Vauxhall retailer please **Lo-call 0845 600 1500**.

Alternatively, details can be found on our website at www.vauxhall.co.uk



- Save up to £2000* on a new Vauxhall with The GM Card
- 100 Rebate Points worth £100 when you use The GM Card for the first time
- Rebate Point saving is on top of any discount or offer negotiated with the Retailer
- Earn 3 Rebate Points (£3) for every £100 you spend

Typical 14.9% APR variable

To apply call **0845 746 2777** or visit www.gmcard.co.uk

For a copy of this brochure in large print, Braille or on audio CD, please call 01908 553053 (Mon-Fri 9.00-5.00), or via our textphone service on 18001 08456 785 785.

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Diesel Car Range

2008 Models Edition 1



Vauxhall diesels: state of the art

More and more car drivers are discovering the advantages of diesel power – indeed diesel-powered models now account for nearly 40% of all new cars sold in the UK. And Vauxhall is at the forefront of this diesel revolution. Over the past few years we have introduced a range of state-of-the-art common rail diesel engines, including frugal, yet powerful, 1.3CDTi units and the superb 2.0CDTi 16v fitted to the new Antara, all offering the very best in technology, refinement and economy.



The benefits of Vauxhall common rail diesel engines include:

Performance

First and foremost, today's Vauxhall diesels are brilliant to drive. Engines like the 184PS 3.0CDTi V6 24v offer superb smooth performance allied to outstanding flexibility and petrol-style power delivery. The broad spread of torque makes them ideal towing cars too.

Economy

Vauxhall diesels are fuel efficient. Tigra coupé roadster models fitted with the outstanding 70PS 1.3CDTi 16v common rail unit return 61.4mpg on the combined cycle – a remarkable achievement for so sporty a vehicle.

Emissions

Low CO₂ emissions make Vauxhall common rail turbo diesel models a particularly good choice for company car drivers; as *Auto Express* remarked when reviewing the 1.9CDTi (120PS) Vectra hatchback model, "with a CO₂ figure of 154g/km, the Vectra CDTi is one of the cleanest oil-burners money can buy".

Servicing

Surely such high-technology, performance and great fuel economy must mean more servicing? No. Vauxhall's new common rail diesel engines require the same 20,000 miles/one year service intervals as the petrol engines.

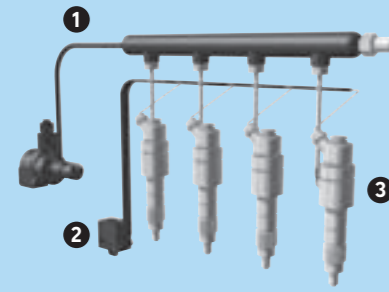
Vehicle Excise Duty

Vauxhall diesels can save you money on your vehicle excise duty, too. Corsa models powered by the 1.3CDTi 16v (75PS) engine boast one of the lowest CO₂ emissions figures of any diesel car, an impressive 119g/km. This means they qualify for the Government's band B (currently £35.00 for 12 months).

Resale values

Vauxhall diesels hold their value well, too. Figures suggest that in most cases the price achieved at resale usually goes at least some way towards covering any price premium involved in purchasing a diesel. To quote industry specialist CAP Monitor, "It is likely that a customer would be able to recover some of the increased cost of the diesel model versus a petrol model".

Common rail injection explained



Vauxhall common rail diesel engines are designed to supply constant high pressure fuel to electronically controlled injectors through a single – i.e. common – fuel reservoir or ‘rail’, located just above the cylinder head (1). Previous generations of diesel engines employed an engine-driven pump to deliver fuel to each cylinder in turn, but Vauxhall’s common rail design is able to provide a much higher fuel pressure regardless of engine speed.

This constant higher pressure, together with carefully mapped electronics (2), allows the injectors (3) to deliver a precise amount of fuel to each cylinder in turn. The improvement in efficiency promotes outstanding performance, with higher power and torque outputs allied to better economy and reduced emissions!

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Extensive choice

Our CDTi engines are available in a broad range of sizes, power outputs and configurations. From the 1.3CDTi 16v, which is a version of the engine that powered the ECO VX220 to 17 international diesel performance records, to the incredible 184PS 3.0CDTi V6 24v, with an astounding 400Nm of torque available at only 1900rpm, all feature excellent fuel economy and low CO₂ emissions.

For those drivers who prefer automatic transmissions, many of our diesels are available with a six-speed automatic – which is a great way to exploit the instantly available torque of the modern turbo diesel.

Variable Nozzle Turbines

Common rail technology isn’t the only secret behind our engines’ excellent performance, many of them also feature turbochargers with Variable Nozzle Turbines (VNT).

In order to reduce the slight delay in the turbocharger boosting engine performance at low revs (known as turbo lag), the vanes on the turbine are automatically adjusted to allow it to spin much faster than a regular turbo, allowing the engine to respond more quickly to throttle inputs.

At higher engine speeds, the vanes are adjusted again to mimic the high-boost performance of a larger turbocharger – which means that the engine’s responsiveness remains constant throughout its rev range and its peak torque is developed at much lower rpm.

On the road, drivers will experience a broader, more usable spread of power, meaning less gearchanges and more relaxed progress.



ECO VX220*

Powered by a 1.3CDTi 16v engine, this special VX220 set 17 international diesel records including an average speed of 149mph over 12 hours. In a separate exercise it recorded fuel consumption of over 111mpg.

* = Record-breaking vehicle was an Opel Speedster ECO 1.3 Turbo Diesel, based on the Vauxhall VX220.

Performance, fuel economy and emissions (manufacturer’s figures)*

Model/engine	Transmission	Max. speed (mph)	0-60 mph (secs)	mpg (l/100km) – combined	CO ₂ emissions (g/km)	Model/engine	Transmission	Max. speed (mph)	0-60 mph (secs)	mpg (l/100km) – combined	CO ₂ emissions (g/km)
Corsa						Astra TwinTop					
1.3CDTi 16v (75PS)	5M	101	13.6	62.8 (4.5)	119	1.9CDTi 16v (150PS)	6M	132	9.5	47.1 (6.0)	160
1.3CDTi 16v (90PS)	6M	107	11.9	61.4 (4.6)	124	Zafira					
1.7CDTi 16v (125PS) 3-door	6M	121	9.3	58.9 (4.8)	130	1.9CDTi (120PS)	6M**	116	11.4	47.1 (6.0)	162
1.7CDTi 16v (125PS) 5-door	6M	121	9.3	57.6 (4.9)	132	1.9CDTi 16v (150PS)	6M**	126	9.7	46.3 (6.1)	165
Meriva						Vectra					
1.3CDTi 16v (75PS)	5M	98	16.6	56.5 (5.0)	135	1.9CDTi (120PS) hatch/saloon	6M	124	10.5	49.6 (5.7)	154
1.7CDTi 16v (100PS)	5M	111	12.4	54.3 (5.2)	140	1.9CDTi (120PS) estate	6M	121	11.2	48.7 (5.8)	157
Tigra						1.9CDTi 16v (150PS) hatch/saloon					
1.3CDTi 16v (70PS)	5M	104	15.0	61.4 (4.6)	124	1.9CDTi 16v (150PS) estate	6M**	130	9.5	48.7 (5.8)	157
Astra Sport Hatch						3.0CDTi V6 24v (184PS) hatch					
1.7CDTi 16v (100PS)	5M	113	11.4	56.5 (5.0)	135	3.0CDTi V6 24v (184PS) estate	6M**	140	8.6	40.9 (6.9)	186
1.9CDTi (120PS)	6M**	122	9.7	48.7 (5.8)	157	Signum					
1.9CDTi 16v (150PS)	6M	130	8.3	48.7 (5.8)	157	1.9CDTi (120PS)	6M	120	11.2	47.9 (5.9)	159
Astra						1.9CDTi 16v (150PS)					
1.3CDTi 16v (90PS) hatch	6M	107	12.8	55.4 (5.1)	137	3.0CDTi V6 24v (184PS)	6M**	139	8.7	40.4 (7.0)	189
1.3CDTi 16v (90PS) estate	6M	107	13.2	55.4 (5.1)	137	Antara					
1.7CDTi 16v (100PS) Life hatch	5M	112	11.5	56.5 (5.0)	135	2.0CDTi 16v	5M†	111	11.1††	37.2 (7.6)	198
1.7CDTi 16v (100PS) Life estate	5M	112	11.7	56.5 (5.0)	135	<small>5M = Five-speed manual gearbox. 6M = Six-speed manual gearbox. * = For full performance, fuel economy and emissions data please refer to the specific model brochure available from your retailer. Alternatively, go to our website at www.vauxhall.co.uk ** = Six-speed automatic transmission available at extra cost. † = Five-speed automatic transmission available at extra cost. †† = 0-62mph figure shown.</small>					
1.7CDTi 16v (100PS) hatch exc. Life	5M	112	11.5	55.4 (5.1)	138						
1.7CDTi 16v (100PS) estate exc. Life	5M	112	11.7	55.4 (5.1)	138						
1.9CDTi (120PS) hatch	6M**	121	9.8	48.7 (5.8)	157						
1.9CDTi (120PS) estate	6M**	120	10.0	47.9 (5.9)	159						
1.9CDTi 16v (150PS) hatch	6M	129	8.3	48.7 (5.8)	157						
1.9CDTi 16v (150PS) estate	6M	129	8.6	47.9 (5.9)	159						

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Diesel Particulate Filter (DPF)

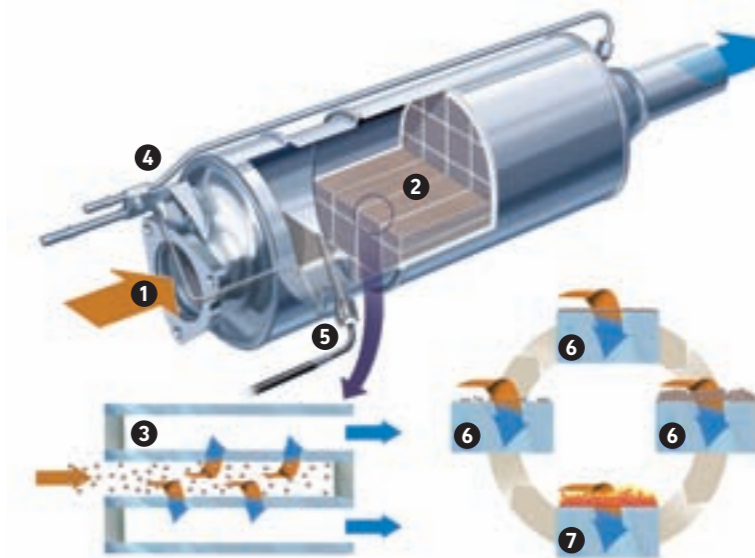
Follow a briskly accelerating diesel car, even a reasonably modern one, and you know what'll happen – a small black cloud of soot puffs out of the exhaust. But not any more because, thanks to their new DPF technology, our diesel cars are now cleaner than ever, which is good for the environment – and everyone behind you.

How the DPF works

Upon entering the DPF (1) the exhaust gases are directed through the silicon carbide core (2) before being allowed to continue through the exhaust system.

The construction of the core (3) offers a large surface area to the passing exhaust gases, giving a plentiful storage volume for collected soot. The soot volumes are monitored at all times by pressure and

temperature sensors (4/5), which feed information to the engine management system to determine when the filter requires regeneration. When the soot levels (6) have reached their allowed limit, the regeneration process is initiated (7), in which the exhaust gas temperature is raised to 600°C, by multiple fuel injections, in order to burn off the soot particles.



What is a Diesel Particulate Filter (DPF)?

The DPF is a filtration system, located within the exhaust system, which filters out harmful soot particles from the exhaust gases. The maintenance-free filter consists of a silicon carbide core, perforated by microscopic channels. The exhaust gas passes through the channel walls, on which the particulates collect.

Does the DPF need changing regularly, like an air filter?

No, the DPF is entirely self-cleaning, a process which is controlled by the engine management system and pressure and temperature sensors which detect when the filter must be cleaned.

The exhaust temperature is then increased by deliberate multiple fuel injections into the engine, raising the temperature of the DPF to 600°C, which burns the soot particles without leaving any residue.

The regeneration process takes place periodically, under normal driving conditions, without the driver noticing that it's in progress. Vehicles that spend much of their time on short trips or in urban environments may require a longer journey to complete the regeneration cycle – in these instances a dashboard reminder light will inform the driver when this is required.

Why has Vauxhall started fitting DPFs?

In order to meet increasingly stringent statutory diesel engine exhaust emission requirements, enormous technological

strides in diesel engine design have been made. Lately these have included the introduction of diesel particulate filters in certain applications to limit diesel particulate emissions.

Euro 4 exhaust emission standards limit the quantity of soot produced to 25mg/km. Not all Vauxhall models require DPFs to comply with Euro 4 legislation, so they are mainly to be found on larger vehicles or in conjunction with more powerful engines.

Models fitted with Diesel Particulate Filters

Model	Corsa	Meriva	Astra	Astra TwinTop	Zafira	Vectra	Signum	Antara
1.3CDTi 16v (75PS)		•						
1.7CDTi 16v (125PS)	•							
1.9CDTi (120PS)			•*		•	•**	•	
1.9CDTi 16v (150PS)				•	•	•**	•	
2.0CDTi 16v (150PS)								•
3.0CDTi V6 24v (184PS)						•	•	

* = Models fitted with optional automatic transmission only.

** = All estate models and saloon/hatchbacks fitted with optional automatic transmission only.