



BMW 530d

BMW



About this Vehicle

The BMW 530d offers 3 litres of turbocharged power twinned with enhanced fuel efficiency for a performance that is perfection personified. Variable turbine vanes in the turbocharger increase muscle at low engine speeds resulting in maximum torque of between 1,750 and 3,000 rpm. The engine ticks over quietly when idling and sensational in gear acceleration allows the 530d to go from 80km/h to 120km/h in a mere 6.9 seconds; even when cruising at 220 km/h, the sound of the engine is barely distinguishable.

Technical Specifications

Country of origin	Germany
Type	4-door passenger sport sedan
Engine	
Displacement	2.993 litre (182 CID)
No. of cylinders	6, in-line
Fuel system	Bosch common rail fuel injection
Induction	Turbocharger with variable geometry, charge air-cooled
Valvetrain	4 valves/cyl
Compression ratio	17.0:1
Horsepower	160 kW (218 bhp) @ 4,000 rpm
Torque	500 Nm (369 ft-lb) @ 2,000 rpm
Transmission	6-speed manual
Specific output	
Chassis	
Brakes	Front and rear inner-vented disc brakes
Wheels/tires	225/55 R 16, W
Specifications	
Fuel tank capacity	70 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1670 kg
Performance	
Top speed	245 km/h
Fuel economy	9.5 ltr/100km (urban) 5.5 ltr/100km (extra-urban) 6.9 ltr/100km (composite)
Acceleration	0-100 km/h – 7.1 sec
Emissions	184 gm/km CO ₂

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BMW 330d

BMW



About this Vehicle

The BMW 330d's super-refined 6-cylinder turbo diesel engine conjures up massive reserves of 150kW at 4,000 rpm, propelling the 330d with tremendous force, yet remarkably quietly. A devotedly responsive performance car, the 330d's 6-speed manual gearbox transfers 410Nm of torque to the rear wheels, resulting in spirited driving and powerful in-gear overtaking. The 330d has impressive fuel consumption figures of a mere 6.6 litres per 100km making refueling necessary only every 954km.

Technical Specifications	
Country of origin	Germany
Type	4-door passenger sport sedan
Engine	
Displacement	2.993 litre (182 CID)
No. of cylinders	6, in-line
Fuel system	Bosch common rail fuel injection
Induction	Turbocharger with variable geometry, charge air-cooled
Valvetrain	4 valves/cyl (hydraulic compensation)
Compression ratio	17.0:1
Horsepower	150 kW (204 bhp) @ 4,000 rpm
Torque	410 Nm (302 ft-lb) @ 1,500 rpm
Transmission	6-speed manual
Specific output	
Chassis	
Brakes	Front and rear inner-vented disc brakes
Wheels/tires	225/45 R 17, W
Specifications	
Fuel tank capacity	63 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1615 kg
Performance	
Top speed	242 km/h
Fuel economy	9.1 ltr/100km (city) 5.2 ltr/100km (highway) 6.6 ltr/100km (composite)
Acceleration	0-100 km/h – 7.2 sec 80-120 km/h – 6.1 sec (4th), 7.7 sec (5th)
Emissions	177 g/km CO ₂

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BMW X5d

BMW



About this Vehicle

The X5 offers nimble and efficient transportation in superior comfort and style. From short hops, to long haul and off road adventure, the X5 3.0d is certainly as versatile as it looks in both ability and functionality. The power beneath the X5 hood is produced by common rail direct injection, and by turbocharger with variable geometry, and four valves per cylinder. The optional steptronic transmission not only provides a fully automatic, adaptive 5-speed gearshift, but also manual selection of individual gears. For standing starts, acceleration is phenomenal, achieving 100 km/h in just 10.5 seconds.

Technical Specifications

Country of origin	Germany
Type	5-door passenger sport utility
Engine	
Displacement	2.926 litre (177.6 CID)
No. of cylinders	6, in-line
Fuel system	Bosch common rail fuel injection
Induction	Turbocharger (diesel catalyst)
Valvetrain	4 valves/cyl
Compression ratio	18.0:1
Horsepower	135 kW (184 bhp) @ 4,000 rpm
Torque	410 Nm (302 ft-lb) @ 2,000 rpm
Transmission	6-speed manual
Specific output	
Chassis	
Brakes	4-wheel ABS with front inner-vented disc brakes, rear disc brakes
Wheels/tires	235/65 R 17, 104H
Specifications	
Fuel tank capacity	93 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	2155 kg
Performance	
Top speed	200 km/h
Fuel economy	11.1 ltr/100km (city) 7.1 ltr/100km (highway) 8.7 ltr/100km (composite)
Acceleration	0-100 km/h – 10.1 sec 80-120 km/h – 8.0 sec
Emissions	259 g/km CO ₂

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VW Passat TDI PD 130PS

Volkswagen



About this Vehicle

This diesel version of the popular Volkswagen Passat is a motor vehicle of uncompromising quality, luxury and prestige. You'll appreciate the way it looks, the way it feels and most of all, the way it drives.

Technical Specifications	
Country of origin	Germany
Type	4-door passenger sport sedan
Engine	
Displacement	1.896 litre
No. of cylinders	4
Fuel system	TDI direct injection
Induction	Turbocharged with intercooler
Valvetrain	2 valves/cyl SOHC
Compression ratio	19.0:1
Horsepower	96 kW (128 bhp) @ 4,000 rpm
Torque	310 Nm (228 ft-lb) @ 1,900 rpm
Transmission	5-speed automatic Tiptronic
Specific output	
Chassis	
Brakes	Front (ventilated) and rear disc brakes, ABS, EBV
Wheels/tires	195/65 R 15
Specifications	
Fuel tank capacity	62 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1,425 kg (incl driver)
Performance	
Top speed	208 km/h (129 mph)
Fuel economy	10.0 ltr/100km (28.2 mi/gal) – city 5.4 ltr/100km (54.3 mi/gal) – highway 7.0 ltr/100km (40.0 mi/gal) – composite
Acceleration	0-100 km/h – 11.5 sec
Emissions	176 g/km CO ₂



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Banks Sidewinder

Gale Banks Engineering (Cummins powerplant)



About this Vehicle

The whole idea of the Sidewinder Project is to illustrate that a diesel can be an extraordinary performance engine configuration, achieved in this truck using a modified Cummins ISB 24-valve 5.9L engine.

Technical Specifications

Country of origin	USA
Type	2-door, 2-passenger sport truck
Engine	
Displacement	5.9 litre (359 CID)
No. of cylinders	6
Fuel system	Bosch/Cummins common rail direct injection
Induction	Modified Holset HY55 variable geometry turbocharger with Banks controller, air/water intercooling
Valvetrain	4 valves/cyl, cam-in-block
Compression ratio	15.1:1
Horsepower	548 kW (735 bhp) @ 4,000 rpm
Torque	1,760 Nm (1,300 ft-lb)
Transmission	6-speed manual
Specific output	125 hp/ltr
Chassis	
Brakes	4-wheel front and rear Baer-Alcon ventilated discs, 12.9 inch rotors, 6-piston calipers
Wheels/tires	Front – 255/45 R 18, rear – 295/45 R 20
Specifications	
Fuel tank capacity	83 litres (22 gal)
Cruising range @ hwy mpg	466 miles
Type of fuel	Diesel
Curb weight	2,410 kg (5,500 lb)
Performance	
Top speed	358 km/h (222.139 mph – measured)
Fuel economy	11.1 ltr/100km (21.2 mi/gal) – highway
Acceleration	115.10 mph – 12.167 sec
Emissions	

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Chevy Malibu

General Motors



About this Vehicle

This is a prototype passenger car that is part of the General Motors development fleet. This and other diesel vehicles are used to assess technologies that can be applied to the vehicles GM markets world wide. The 2004 Opel Signum began production this summer with the 3.0L V6 diesel powertrain. The Malibu and the Opel Signum are based on a common platform.

Technical Specifications

Country of origin	USA
Type	Prototype diesel-powered American sedan
Engine	
Displacement	3.0 litre
No. of cylinders	V6
Fuel system	Common rail (Denso) direct injection
Induction	Turbocharged/Intercooled
Valvetrain	4 valves/cyl, DOHC
Compression ratio	18.5:1
Horsepower	130 kW (175 bhp) @ 4,000 rpm
Torque	370 Nm (273 ft-lb) @ 2,000 rpm
Transmission	5-speed automatic
Specific output	
Chassis	
Brakes	
Wheels/tires	
Specifications	
Fuel tank capacity	
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	
Performance	
Top speed	
Fuel economy	
Acceleration	
Emissions	

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2003 Dodge Ram 1500 (Development)
DaimlerChrysler–Powered by Cummins



Technical Specifications

Table with technical specifications for the 2003 Dodge Ram 1500, including Country of origin (USA), Type (4-door, 1/2 ton pickup truck), Engine (5.6 litre V8 Cummins diesel), Chassis (4-wheel disc brakes), and Performance (top speed 180 km/h).



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VW New Beetle 1.9 TDI 100PS Volkswagen



About this Vehicle

The 2003 Volkswagen New Beetle is building its model lineup to offer even more choices, including the highly fuel-efficient, 90-hp GL 1.9 TDI (Turbo Direct Injection) diesel. It utilizes a major advance in diesel technology where fuel is injected and ignited directly into the engine's cylinder head. This is accomplished by the use of an advanced electronic diesel control. In simple terms, the TDI is a "drive by wire" with no mechanical controls from fuel pedal to fuel injection. As a result, the 90-hp diesel engine provides a wealth of low-end torque (155 lbs. ft. at 1,900 rpm), exceptional fuel figures, and exhaust emissions that meet the stringent standards in the U.S. and Europe. In fact, the super-efficient 1.9-liter TDI emits 20 percent less carbon dioxide than a comparable gasoline engine.

Technical Specifications	
Country of origin	Germany
Type	2-door passenger compact
Engine	
Displacement	1.896 litre
No. of cylinders	4, in-line
Fuel system	
Induction	Turbocharged direct injection
Valvetrain	2 valves/cyl SOHC
Compression ratio	19.5:1
Horsepower	74 kW (98.6 bhp) @ 4,000 rpm
Torque	240 Nm (177 ft-lb) @ 1,800 rpm
Transmission	5-speed manual
Specific output	
Chassis	
Brakes	Power-assisted ABS
Wheels/tires	205/55 R 16
Specifications	
Fuel tank capacity	55 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1,318 kg (manual)
Performance	
Top speed	179 km/h (111 mph)
Fuel economy	6.8 ltr/100km (41.5 mi/gal) – city 4.4 ltr/100km (64.2 mi/gal) – highway 5.3 ltr/100km (53.3 mi/gal) – composite
Acceleration	0-100 km/h – 12.4 sec
Emissions	143 g/km CO ₂

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Volvo XC90d

Volvo/Ford Motor Company



About this Vehicle

Volvo's direct-injected five-cylinder 2.4-litre all-aluminum turbodiesel engine harmonizes with the dynamic properties of your Volvo. The very latest diesel engine technology featuring common rail direct injection and variable turbine geometry results in alert response, exceptionally smooth operation, remarkable pulling power and, not least, superior fuel economy. High torque (340 Nm) from 1750 revs provides excellent performance whatever the driving conditions. The engine's low weight contributes to the low fuel consumption and the well-balanced road behavior.

Technical Specifications

Country of origin	Sweden
Type	5-door passenger sport utility
Engine	
Displacement	2.4 litre (146 CID)
No. of cylinders	5, in-line
Fuel system	Bosch 2nd generation common rail direct fuel injection
Induction	Turbocharger, variable-geometry, intercooler, water-cooled EGR
Valvetrain	4 valves/cyl, DOHC
Compression ratio	18.0:1
Horsepower	120 kW (163 bhp) @ 4,000 rpm
Torque	340 Nm (251 ft-lbs) @ 1,750 rpm
Transmission	AWD 5-speed Geartronic
Specific output	
Chassis	
Brakes	Front and rear ventilated disc brakes, ABS, EBD
Wheels/tires	17 in. (18 in. available)
Specifications	
Fuel tank capacity	70 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	2,115 kg
Performance	
Top speed	210 km/h (130 mph)
Fuel economy	6.5 ltr/100km (43.5 mi/gal) – composite
Acceleration	
Emissions	172 g/km CO ₂

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Volvo S80d

Volvo/Ford Motor Company



About this Vehicle

Volvo's direct-injected five-cylinder 2.4-litre all-aluminum turbodiesel engine harmonizes with the dynamic properties of your Volvo. The very latest diesel engine technology featuring common rail direct injection and variable turbine geometry results in alert response, exceptionally smooth operation, remarkable pulling power and, not least, superior fuel economy. High torque (340 Nm) from 1750 revs provides excellent performance whatever the driving conditions. The engine's low weight contributes to the low fuel consumption and the well-balanced road behavior.

Technical Specifications

Country of origin	Sweden
Type	4-door passenger sport sedan
Engine	
Displacement	2.4 litre (146 CID)
No. of cylinders	5, in-line
Fuel system	Bosch 2nd generation common rail direct fuel injection
Induction	Turbocharger, variable-geometry, water-cooled EGR
Valvetrain	4 valves/cyl
Compression ratio	18.0:1
Horsepower	120 kW (163 bhp) @ 4,000 rpm
Torque	340 Nm (251 ft-lbs) @ 1,750 rpm
Transmission	5-speed manual FWD
Specific output	
Chassis	
Brakes	Power-assisted ABS with EBD, ventilated front discs
Wheels/tires	215/55 R 16
Specifications	
Fuel tank capacity	70 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1,535 kg
Performance	
Top speed	210 km/h (130 mph)
Fuel economy	25.9 mi/gal, city – automatic 46.3 mi/gal, highway – automatic 36.2mi/gal, composite – automatic 6.5 ltr/100km, (43.5 mi/gal, composite) – manual
Acceleration	0-100 km/h – 10.2 sec – automatic
Emissions	172 g/km CO ₂ – manual 207 g/km CO ₂ – automatic

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Peugeot 607 HDi

PSA



About this Vehicle

The new engine uses the architecture of the highly successful DW10 powerplant, a core engine family with proven uniformity and consistency.

These goals were met without increasing fuel consumption, which remains very low, while in terms of environmental protection, the new engine ranks amongst the world's cleanest-burning power plants. Depending on partner, vehicle, and country it will be available with Euro IV compliance and a diesel particle filter.

Like its 1.6-litre sibling, the 2.0-litre HDi/Duratorq TDCi will offer a full array of worldclass performance features thanks to the extensive flexibility of the common-rail direct injection system and advances in engine electronic control. One of the design's particular strengths is the wide flexibility it allows for control of engine running parameters. This means it can simultaneously control such performance characteristics as power and torque while precisely managing the internal combustion process, thus delivering premium environmental protection.

Technical Specifications

Country of origin	France
Type	4-door sport sedan
Engine	
Displacement	1.998 litre (121.4 CID)
No. of cylinders	4
Fuel system	Siemens new generation common rail direct injection
Induction	Turbocharged, Garrett VGT turbocharger with an air/air intercooler
Valvetrain	4 valves/cyl
Compression ratio	
Horsepower	110 kW (151 bhp) @ 4,000 rpm
Torque	188 Nm (139 ft-lb) @ 1,750 rpm
Transmission	5-speed manual, 4-speed automatic Porsche Tiptronic
Specific output	
Chassis	
Brakes	ABS, EBD
Wheels/tires	225/50 R 17 W
Specifications	
Fuel tank capacity	80 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	2,060 kg
Performance	
Top speed	190 km/h (118 mph)
Fuel economy	8 ltr/100km (35.3 mi/gal) – city 4.8 ltr/100km (58.9 mi/gal) – highway 6 ltr/100km (47 mi/gal) – composite
Acceleration	0-100 km/h – 13.2 sec
Emissions	160g/km CO ₂

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MINI One D



About this Vehicle

It's anything but heavy-going in a MINI One D – thanks to the lightweight, full **aluminum engine**, which helps provide optimum weight distribution. But it's got some clout as well. The second-generation **common rail injection technology** with turbocharger and intercooler ensures **high torque** at low revs, excellent fuel consumption and minimum noise/vibration levels. And to round off that glowing feeling, the **auxiliary heater** quickly brings the engine and the passenger compartment to their ideal temperature.

Technical Specifications

Country of origin	Europe (11 countries May-June 2003)
Type	2-door, 4-passenger subcompact coupe
Engine	
Displacement	1.4 litre (85.4 CID)
No. of cylinders	4
Fuel system	Bosch 2nd generation common rail fuel injector
Induction	Turbocharged, intercooled
Valvetrain	4 valves/cyl
Compression ratio	18.5:1
Horsepower	55 kW (75 bhp) @ 4,000 rpm
Torque	180 Nm (133 ft-lb) at 2,000 rpm
Transmission	6-speed manual
Specific output	
Chassis	
Brakes	Front ventilated disc brakes; rear disc brakes
Wheels/tires	175/65 R 15
Specifications	
Fuel tank capacity	50 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	1175 kg
Performance	
Top speed	165 km/h
Fuel economy	4.8 ltr/100km (combined)
Acceleration	0-100 km/h – 13.8 sec (4th gear) 80-120 km/h – 12.3 sec (4th gear)
Emissions	129 g/km CO ₂

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BMW 740d

BMW Group



About this Vehicle

The BMW 740d is the athlete of the luxury car world, effortlessly blending comfort and agility to create a new dimension in advanced motoring. The sleek lines of the body radiate a pure dynamic energy, even when the car is motionless. The interior communicates a sense of spaciousness, harmony and exclusivity. Outstanding quality and craftsmanship can be seen and felt in every detail of the cabin. And thanks to iDrive, the innovative control concept, the array of dashboard control elements is refreshingly straightforward.

Technical Specifications	
Country of origin	Germany
Type	4-door luxury sport sedan
Engine	
Displacement	3.901 litre (236.8 CID)
No. of cylinders	8
Fuel system	Bosch common rail direct injection
Induction	Turbocharged , intercooled
Valvetrain	4 valves/cyl DOHC
Compression ratio	18.0:1
Horsepower	190 kW (259 bhp) @ 4,000 rpm
Torque	600 Nm (443 ft-lb) @ 1,900 rpm
Transmission	6-speed automatic
Specific output	48.72 bhp/ltr
Chassis	
Brakes	4-wheel disc ABS
Wheels/tires	245/55 R 17 102W
Specifications	
Fuel tank capacity	88 litres (23.25gal)
Cruising range @ hwy mpg	1,173 km
Type of fuel	Diesel
Curb weight	2,090 kg (4,598 lb)
Performance	
Top speed	250 km/h (155 mph)
Fuel economy	13.8 ltr/100km (17.03 mi/gal) – city 7.5 ltr/100km (31.33 mi/gal) – highway 9.7 ltr/100km (24.23 mi/gal) – composite
Acceleration	0-100 km/h – 7.4 sec
Emissions	259 g/km CO ₂

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Audi A8 Twin Turbo

Audi



About this Vehicle

The Audi A8 Twin turbo combines sports car performance with luxury car comfort. It incorporates groundbreaking use of lightweight aluminum everywhere, from the engine and suspension to the revolutionary Audi Space Frame (ASF[®]) and body panels. Adaptive air suspension, an electronically controlled system at all four wheels with continuously adaptive damping, and the new 6-speed tiptronic transmission round out an impressive package.

Technical Specifications

Country of origin	Germany
Type	4-door passenger luxury/sport sedan
Engine	
Displacement	3.936 litres (236 CID)
No. of cylinders	V8
Fuel system	TDI direct injection
Induction	Dual variable geometry turbochargers, dual intercoolers
Valvetrain	4 valves/cyl DOHC
Compression ratio	
Horsepower	202 kW (271 bhp) @ 3,750 rpm
Torque	650 Nm (480 ft-lb) @ 1,800 rpm
Transmission	All-time AWD, 6-speed Tiptronic
Specific output	
Chassis	
Brakes	Diagonally split dual-circuit brake system with ESP/ABS/EBD, brake servo, hydraulic brake assist, ventilated disc brakes at front and rear; front: dual-piston calipers; rear: electromechanical parking brake.
Wheels/tires	255/45 R 18
Specifications	
Fuel tank capacity	90 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel (fuel grade 51)
Curb weight	1940 kg
Performance	
Top speed	247 km/h
Fuel economy	13.6 ltr/100km (city) 7.7 ltr/100km (highway) 9.8 ltr/100km (composite)
Acceleration	0-100 km/h – 6.7 sec
Emissions	259 g/km, four oxidation catalysts, water-cooled EGR

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DaimlerChrysler SMART

Mercedes



About this Vehicle

The smart™ is a lightweight, two-seater city car with a length of only 2.5 m. All of the vehicle's safety parts absorb impact energy in a targeted fashion and coordinate with each other to reduce it. The smart's 3-cylinder engine with turbocharger and charge cooling features performance characteristic controlled boost pressure control, suction pipe injection, and double ignition.

Technical Specifications	
Country of origin	Germany
Type	2-door, passenger subcompact "city car"
Engine	
Displacement	0.8 litres (48.6 CID)
No. of cylinders	3, in-line, rear engine
Fuel system	Bosch common rail direct injection
Induction	Turbocharged, intercooled
Valvetrain	2 valves/cyl SOHC
Compression ratio	18.5:1
Horsepower	30 kW (41 bhp) @ 4,200 rpm
Torque	100Nm (74 ft-lb) @ 1,800 rpm
Transmission	6-speed automatic
Specific output	
Chassis	
Brakes	ABS, EBD, ESC
Wheels/tires	135/70 R 15
Specifications	
Fuel tank capacity	27 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel
Curb weight	730 kg
Performance	
Top speed	135 km/h (84 mph)
Fuel economy	3.9 ltr/100km (60 mi/gal) – city 3.1 ltr/100km (76 mi/gal) – highway 3.4 ltr/100km (69 mi/gal) – composite
Acceleration	0-100 km/h – 19.8 sec
Emissions	90g/km CO ₂ (oxidation catalyst)

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Mercedes E320 CDI

Mercedes



About this Vehicle

The Mercedes E320 CDI offers responsive performance that adapts to the driver's needs: for sporty driving, the adaptive accelerator offers quick response to the pedal, while cruising gets a more relaxed response for a smoother drive. The driver-adaptive 5-speed automatic transmission also adjusts its shift points accordingly. For added fun, Touchshift control lets you make manual-style downshifts and upshifts by tapping the shift lever left or right from the Drive position.

Technical Specifications	
Country of origin	Germany
Type	4-door passenger sedan
Engine	
Displacement	3.222 litre
No. of cylinders	6, in-line
Fuel system	CDI Bosch 2nd generation common rail direct injection
Induction	Turbocharged
Valvetrain	4 valves/cyl centrally located electronic injectors
Compression ratio	18.0:1
Horsepower	150 kW (201 bhp) @ 4,200 rpm
Torque	500 Nm (369 ft-lb) @ 1,800 rpm
Transmission	5-speed automatic
Specific output	
Chassis	
Brakes	4-wheel disc ABS with Brake Assist
Wheels/tires	225 /55 R 16
Specifications	
Fuel tank capacity	80 litres
Cruising range @ hwy mpg	
Type of fuel	Diesel (DIN EN 590)
Curb weight	1,750 kg (3,835 lb)
Performance	
Top speed	243 km/h (130 mph)
Fuel economy	9.4 ltr/100km (____ mi/gal) – city 5.4 ltr/100km (____ mi/gal) – highway 6.9 ltr/100km (____ mi/gal) – composite
Acceleration	0-100 km/h – 7.7 sec
Emissions	183 g/km CO ₂

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Caterpillar 2007 Compliant Truck Kenworth



About this Vehicle

Caterpillar has been developing a host of technologies to meet the upcoming 2007 on-highway heavy-duty regulations. This truck is an integrated system of some of the best technologies to date. It is a combination of combustion, aftertreatment, air systems, additional control mechanisms, electronics and control methodologies that build on the ACERT™ engines now in production. The integrated package fits well in the space available for current engines. It does add particulate filters but does not require an additional reductant such as would be needed with SCR. The fuel economy of this demonstrator is essentially the same as today and is expected to improve as the final calibrations and refinements are made for production. It is available for demonstration with an on board NO_x sensor and seating for five.

Technical Specifications

Country of origin	USA
Type	Prototype 2007 diesel-powered Class 8 truck with aftertreatment
Engine	
Displacement	15.2 litre
No. of cylinders	6
Fuel system	Caterpillar MEUI electronically controlled unit injectors
Induction	Series turbocharged, aftercooled
Valvetrain	4 valves/cyl, OHC
Compression ratio	18:1
Horsepower	354 kW (475 bhp) @ 1,850 rpm
Torque	2,373 Nm (1,750 ft-lb) @ 1,200 rpm
Transmission	Eaton 18-Speed AutoShift™
Specific output	
Chassis	
Brakes	ABS
Wheels/tires	622mm (24.5 inch) (11 R 24.5 radial)
Specifications	
Fuel tank capacity	1,022 litres (270 gal)
Cruising range @ hwy mpg	
Type of fuel	Diesel (15 ppm max sulfur)
Curb weight	~800 kg (1,800 lbs)
Performance	
Top speed	
Fuel economy	
Acceleration	
Emissions	
Max Load	36,000 kg (80,000 lbs)

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Detroit Diesel 2007 Compliant Truck Freightliner



About this Vehicle

A Freightliner class 8 truck equipped with a prototype diesel particulate filter and urea SCR catalyst for NO_x and PM reduction that is achieving over 7 mpg at below U.S. 2007 emissions while in revenue service. A limited number of these vehicles are currently being tested in revenue service, with no customer complaints.

Technical Specifications	
Country of origin	USA
Type	Diesel-powered Class 8 truck with prototype DPF and SCR aftertreatment
Engine	
Displacement	12.7 litre
No. of cylinders	6
Fuel system	Unit injector
Induction	Turbocharged, intercooled
Valvetrain	4 valves/cyl SOHC
Compression ratio	
Horsepower	430 hp @ 21,00 rpm
Torque	1,550 ft-lb @ 1,200 rpm
Transmission	
Specific output	
Chassis	
Brakes	
Wheels/tires	
Specifications	
Fuel tank capacity	
Cruising range @ hwy mpg	
Type of fuel	Low sulfur diesel (15 ppm sulfur)
Curb weight	
Performance	
Top speed	
Fuel economy	7.1 mpg in revenue service @ U.S. 2007 emission levels
Acceleration	
Emissions	

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