

Volvo Car B.V.

Helmond, Netherlands

Marketing Department, Public Relations

THE VOLVO 340/360 RANGE:CONTINUING GROWTH IN QUALITY,IN MODEL VARIANTS AND IN SALES

The past decade has seen Volvo's compact car range grow not only in range of variants, but in quality too. Today, the Volvo 340 and 360 models are as near to perfection as any production car currently on the market. This bears witness to the soundness of the concept, for there is no better test of quality than the test of time. Another good criterion is the sales performance. Here too, growing sales of the Volvo 340/360 range reflect the confidence in the concept that is shared by an increasingly critical buying public. In 1985, sales of the range totalled more than 110,000 units - a new record for the company. As we approach the end of 1986, the sales performance so far shows an 8% increase above the 1985 level. The Volvo 340/360 models are scheduled to remain in production at least until the early nineties.

In recent years, Volvo's compact cars have also benefited from the high-tech production equipment installed for the Volvo 480 ES. One example is the excellent quality finish assured by the robotized spray painting and surface treatment facility. Another is the 8 years Corrosion Protection Warranty, with no mandatory post-treatment except for two (free) inspections in the 3rd and 6th year.

A COMPREHENSIVE MODEL LINE-UP

Volvo now offers more than 50 variants in the 340/360 line-up*. A comprehensive choice of tried and tested cars to satisfy a wide range of individual requirements. And with a standard equipment package* that confirms the comfort and convenience of every Volvo.

* See separate variants list and equipment specification.

From 3 and 5-door hatchbacks to 4-door sedans, including the latest addition to the range, the 2.0-litre 360 Gt-1 Sedan. Transmissions include 4 or 5-speed manual gearbox and fully automatic transmission. Power choice ranges from 2.0-litre injection units (with or without a catalytic converter) to 2.0-litre, 1.7-litre and 1.4-litre carburettor engine and a 1.6-litre diesel. In the 2.0-litre range there are engines which satisfy the stringent US-83 emission regulations and the projected ECE R15-04/25 requirements. All petrol engines in the programme are now suitable for running on both leaded and unleaded petrol (except for the B200F fuel injection variant with 3-way catalytic converter, see below).

MODEL YEAR 1987

Early in 1986 Volvo announced the introduction of 'clean' 2.0-litre injection engines with and without a three-way catalytic converter (details below). Also new is that all carburettor engines and the non-catalytic converter injected engines in the 340/360 range can now run on both leaded and unleaded petrol. These engines are fitted in the 1987 model year cars. The 1987 model year also shows how Volvo is continuing its policy of regularly introducing new variants and options. The latest new variant is the 360 GLT Sedan, while new options include electric heating for both front seats on most models and electrically operated and heated door mirrors on G-level variants. Hatchback models in the U.K. are now supplied with a rear wash/wipe unit as standard.

VOLVO 360 GLT SEDAN

Early in 1986 Volvo introduced the 4-door 360 GLT Sedan. Aimed at the upper half of the executive pyramid, this 2.0-litre sedan offers big-car comfort in compact car outside dimensions with a good top-speed, good acceleration and sporty handling. In economy too the 360 GLT Sedan competes well, with an average fuel consumption of 8.4 litres/100 km by ECE testing standard ECE R15-04. Standard equipment includes tinted

glass all-round edged with matt-black trim, two manual remote control door mirrors, 60 aspect ratio low profile tyres and smart 14" alloy wheels. Also standard are two auxiliary driving lamps in the front spoiler, while the boot lid has a discreet rear-overhang spoiler. Performance is competitive. 0-100 km/h is reached in about 10.5 seconds. Top speed is more than 180 km/h. Ninety per cent of maximum torque is available from low down the engine speed band, giving the new 360 GLT Sedan excellent pick-up at low engine speeds and in the vital mid-range overtaking speeds (80-120 km/h in 10.0 seconds). Power is 82 ECE kW/111.5 DIN hp at 5800 r/min, while torque peaks at 157 ECE Nm/4200 r/min.

VOLVO AND THE ENVIRONMENT

1. UNLEADED PETROL

All the carburettor engines in the Volvo 340/360 programme are now suitable for running on both leaded and unleaded fuel, from RON 95 'EurosUPER'. The 2.0-litre fuel injection engines are designed to run on any other grade of fuel currently sold at the pumps (with the exception of the B200F engine; see below).

2. CLEAN CARS, WITH AND WITHOUT CATALYTIC CONVERTER

A. VOLVO 360 WITH CATALYTIC CONVERTER

Volvo now offers a 3-way catalytic converter variant in the Volvo 360 range. Designated B200F, this fuel-injected 2.0-litre engine is available in European markets where the US-83 exhaust emission standards are in force or scheduled for introduction. The 360 catalytic converter variant is Volvo's well-known 1986 cm³ engine with LE-Jetronic fuel injection plus a Lambda-sonde (= LU-Jetronic) and a separately controlled three-dimensional Electronic Ignition Mapping system. The B200F engine is suitable for running on unleaded petrol only from RON 91 to RON 95 and delivers a maximum power of 80 kW at 6000 r/min and maximum torque of 150 Nm at 4200 r/min.

Acceleration time from 0-100 km/h is 11.0 seconds, while top speed is 180 km/h (figures are approximate). Overall fuel consumption by ECE testing standards is 9.3 litres per 100 km.

B. VOLVO 360 WITHOUT CATALYTIC CONVERTER

Volvo also offers a 'clean' fuel injected 360 variant without a catalytic converter, suitable for running on every petrol grade from unleaded RON 91 to leaded RON 98. Tests conducted by the West German TUV show that this B200EA engine satisfies the exhaust emission requirements of ECE Regulation R15-04/25, which is planned to take effect in the EC member states on October 1, 1991 for cars with a displacement between 1.4 and 2.0 litres. The B200EA engine has electronically controlled fuel injection and a separately controlled Electronic Ignition Mapping system. Use is also made of a Pulsair system to reduce the HC and CO content of the exhaust gases by admitting outside air into the exhaust manifold, so enhancing the 'after-burning' effect. EGR is also standard, installed to reduce the NO_x content of the exhaust gases by recycling part of the exhaust gases back to the inlet manifold under certain operating conditions.

Technical specifications*

Car type	340/DL/GL	340DL/GL	340DIESEL	360 GL	360GLT/GLE	360GL/GLT/GLE	360GL/GLT/GLE	
Engine	814	8172	D 16	B200K	B 200 E	B 200 EA	8 200 F Cat.	
Number of cylinders	4	4	4	4	4	4	4	
Capacity cc.	1397	1721	1596	1986	1986	1986	1986	
Bore and stroke mm.	76x77	81x83.5	78x83.5	88.9x80	88.9x80	88.9x80	88.9x80	
Max. output ECE kW/rpm	52/5500	60/5400	40/4800	75/5700	82/5700	82/6000	80/6000	
DIN hp/rpm	72/5500	83/5400	55/4800	104/5700	113/5700	113/6000	110/6000	
Max. torque ECE Nm/rpm	108/3000	13.1/3000	100/2250	157/3000	157/400	157/4200	150/4200	
DIN mkp/rpm	11, 2/3000	13.6/3000	10.4/2250	16.3/3000	16.6/4200	16.3/4200	15.6/4200	
Compression ratio	9.25	9,5	22.5	10.0	9, 2	9.2	9.2	
Octane rating RON	95	95	-	95	95	91	91	
Fuel system	Twin choke carb. Twin choke carb. Roto Diesel			Twin choke carb. LE-Jetronic		LE-Jetronic	LU-Jetronic	
Exhaust system						EGR-Pulsair	3-Way Cat.	
Unleaded fuel possible	x	x	-	x	x	x	Unleaded only	
Electronic ignition mapping system	x	x	-	x	x	x	x	
Gearbox	4/5/CVT"	5	5	5	5	5	5	
Final drive ratio	3.64/3.82/4.51	3.45/3.64	3.82	3.36	3.64/3.45	3.64	3.64	
Cooling system								
Watercooled, closed	x	x	x	x	x	x	x	
Capacity ltr.	5.26	7.8	7.0	7.0	7.0	7.0	7.0	
Viscous coupling cooling fan	-	-	-	x	x	x	x	
Thermo-electric fan	x	x	x	-	-	-	-	
Electrical system								
Battery capacity Ah.	36/45	36/45	66	45/55	55	55	55	
Alternator rating W/A	700/50	700/50	700/50	770/55	770/55	770/55	770/55	
Starter motor W.	920	1250	1700	1400	1400	1400	1400	
Steering								
Rack and pinion	x	x	x	x	x	x	x	
Collapsible column	x	x	x	x	x	x	x	
Turning circle diameter m.	9.20	9.35	9.35	9.35	9.35	9.35	9.35	
Turns of steering wheel	4.13	4.40	4.40	4.40	4.40	4.40	4.40	
Negative camber front	-	x	x	x	x	x	x	
Fuel tank								
Capacity ltr.	45	45	48	57	57	57	57	
Weights (kg), 3/4/5 doors	3 4 5	3 4 5	3 4 5	3 4 5	3 4 5	3 4 5	3 4 5	
Kerb weight	959 978 985	983 1002 1001	1039 1058	1060 1073 1093 1091	1092 1097 1113	See 360 GLT/GLE B 200 E		
Max. permissible weight	1430	1480	1500	1540	1555/1550	See 360GLT/GLE B200E		
Max. trailer weight braked	1000	1000	850	1200	1200	1200	1200	
Max. trailer weight unbraked	ca. 500	500	500	500	500	500	500	
Max. roof load	50	50	50	50	50	50	50	
Transmissions:	4 speed M 45 R	5 speed M 47 R	CVT					
Reduction ratios	1:3.705 4:1.000	1:3.705 4:1.000	Automatic continuously variable between 14.22:1 and 3.86:1 both forward and reverse.			NOTE: The output and torque data are subject to change.		
	2:2.159 R:3.683	2:2.159 5:0.826						
	3:1.369	3:1.369 R:3.683'						
To be market adapted " CVT only available with B 14								

Technical specifications*

Car type	340 / DL / GL			340 DL / GL			340 DIESEL			360 GL			360 GLT/GLE			360 GL/GLT/GLE			360 GL/GLT/GLE		
Engine	B 14			B 172			D 16			B 200 K			B 200 E			B 200 EA			B 200 F Cat.		
Number of cylinders	4			4			4			4			4			4			4		
Capacity cc.	1397			1721			1596			1986			1986			1986			1986		
Bore and stroke mm.	76×77			81×83.5			78×83.5			88.9×80			88.9×80			88.9×80			88.9×80		
Max. output ECE kW/rpm	52/5500			60/5400			40/4800			75/5700			82/5700			82/6000			80/6000		
DIN hp/rpm	72/5500			83/5400			55/4800			104/5700			113/5700			113/6000			110/6000		
Max. torque ECE Nm/rpm	108/3000			13.1/3000			100/2250			157/3000			157/4200			157/4200			150/4200		
DIN mkp/rpm	11.2/3000			13.6/3000			10.4/2250			16.3/3000			16.6/4200			16.3/4200			15.6/4200		
Compression ratio	9.25			9.5			22.5			10.0			9.2			9.2			9.2		
Octane rating RON	95			95			-			95			95			91			91		
Fuel system	Twin choke carb.			Twin choke carb.			Roto Diesel			Twin choke carb.			LE-Jetronic			LE-Jetronic			LU-Jetronic		
Exhaust system													EGR-Pulsair			3-Way Cat.					
Unleaded fuel possible	x			x			-			x			x			x			Unleaded only		
Electronic ignition mapping system	x			x			-			x			x			x			x		
Gearbox	4/5/CVT**			5			5			5			5			5			5		
Final drive ratio	3.64/3.82/4.51			3.45/3.64			3.82			3.36			3.64/3.45			3.64			3.64		
Cooling system																					
Watercooled, closed	x			x			x			x			x			x			x		
Capacity ltr.	5.26			7.8			7.0			7.0			7.0			7.0			7.0		
Viscous coupling cooling fan	-			-			-			x			x			x			x		
Thermo-electric fan	x			x			x			-			-			-			-		
Electrical system																					
Battery capacity Ah.	36/45			36/45			66			45/55			55			55			55		
Alternator rating W/A	700/50			700/50			700/50			770/55			770/55			770/55			770/55		
Starter motor W.	920			1250			1700			1400			1400			1400			1400		
Steering																					
Rack and pinion	x			x			x			x			x			x			x		
Collapsible column	x			x			x			x			x			x			x		
Turning circle diameter m.	9.20			9.35			9.35			9.35			9.35			9.35			9.35		
Turns of steering wheel	4.13			4.40			4.40			4.40			4.40			4.40			4.40		
Negative camber front	-			x			x			x			x			x			x		
Fuel tank																					
Capacity ltr.	45			45			48			57			57			57			57		
Weights (kg), 3/4/5 doors																					
Kerb weight	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	See 360 GLT/GLE B 200 E		
Max. permissible weight	959	978	985	983	1002	1001	1039	1058	1060	1073	1093	1091	1092	1097	1113	See 360 GLT/GLE B 200 E					
Max. trailer weight braked	1430			1480			1500			1540			1555/1550			1200			1200		
Max. trailer weight unbraked	1000			1000			850			1200			1200			1200			1200		
Max. trailer weight unbraked	ca. 500			500			500			500			500			500			500		
Max. roof load	50			50			50			50			50			50			50		
Transmissions:																					
4 speed M 45 R 5 speed M 47 R CVT																					
Reduction ratios	1:3.705 4:1.000			1:3.705 4:1.000																	
	2:2.159 R:3.683			2:2.159 5:0.826																	
	3:1.369			3:1.369 R:3.683																	
												Automatic continuously variable between 14.22:1 and 3.86:1 both forward and reverse.			NOTE: The output and torque data are subject to change.						
* To be market adapted ** CVT only available with B 14																					

Standard and optional equipment*

Car type	340	340 DL	340 GL	360 GL	360 GLE	360 GLT	360
Number of doors	3/5	3/4/5	3/4/5	3/4/5	4	3/4/5	3/4/5
Tinted glass		○	●	●	●	●	●
Spoiler front	●	●	●	●	●	●	●
Spoiler rear						●	
Exterior mirrors	2	2					
Remote control mirrors			2	2	2	2	2
Wide black side protection mouldings				●	●	●	●
Small side protection mouldings	●	●	●				
Black treatment greenhouse	●					●	
Pinstriping (colour coordinated)	○	○	○	○	●	○	○
Colour coordinated bumpers					●	●	
Anthracite-grey bumpers	●	●	●	●			●
Headlamp wiper-washers	○	○	○	○	○	○	○
Fuel cap in car colour (metallic only)**			●	●	●	●	●
Lockable fuel cap			●	●	●	●	●
Central doorlocking		○	○	○	○	○	○
Power windows front			○	○	○	○	○
Lumbar support		●	●	●	●	●	●
Central armrest and oddments hole			●	●	●	●	
Electrically heated front seats with manual override			○	○	○	○	○
Grab handles rear 2			●	●	●	●	
Tunnel console with ashtray and coinbox			●	●	●	●	
Rear passengers footwell heating	●	●	●	●	●	●	●
Vanity mirror in co-driver's sun visor	●	●	●	●	●	●	●
3 point inertia reel safety belts front	●	●	●	●	●	●	●
3 point inertia safety belts rear	○	○	○	○	○	○	○
Air recirculation mode	●	●	●	●	●	●	●
Intermittent wiper		●	●	●	●	●	●
Automatic wash/wipe combination			●	●	●	●	●
Rev. counter			○ B172	●	●	●	
Economy gauge/ambient temperature gauge			○	○	○	○	○
Electrically operated and heated door mirrors			○	○	○	○	
Double horns				●	●	●	●
Halogen headlamps	●	●	●	●	●	●	●
Fog-lights in frontspoiler					●	●	
Rear warning fog-lamps	2	2	2	2	2	2	2
Courtesy light ignition lock			●	●	●	●	
Glove box illumination		●	●	●	●	●	●
Luggage compartment illumination		●	●	●	●	●	●
Illuminated key				●	●	●	
Interior light time delay					●	●	
Rheostat controlled dash-illumination		●	●	●	●	●	●
Search-find illumination switches	●	●	●	●	●	●	●
Reversing lights	2	2	2	2	2	2	2
155 SR 13 tyres	●	●					
175/70 SR 13 tyres	○	○	●				
175/70 R 13 T tyres				●	●		●
185/60 HR 14 tyres						●	
Alloy wheel 13 inch	○	○	○	○	●		○
Alloy wheels 14 inch				○	○	●	○
Longer door pockets			●	●	●	●	
Head restraints rear (4 doors only)			○	○	●	○	
Sunroof		○	○	○	○	○	○

* To be market adapted ** Not for Diesel, B200 EA and B200 F ● = standard ○ = optional