

Volvo XC70

CONT'D VOLVO XC70 →

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ENGINES		
Type	3.2 (B6324S5)	T6 (B6304T4)
Configuration	In-line 6-cyl. petrol	In-line 6-cyl. turbo petrol
Displacement, cm³	Transverse, front and all wheel drive	Transverse, all wheel drive
Bore (mm)	3192	2953
Stroke (mm)	84.0	82.0
Engine cylinder block material	96.0	93.2
Cylinderhead material	Aluminium	Aluminium
Compression ratio	Aluminium	Aluminium
Valves, no/cylinder	10.8:1	9.3:1
Camshafts	4	4
Engine management system	2	2
Ignition sequence	Integrated fuel (SFI) / ignition control systems	Integrated fuel (SFI) / ignition control systems
Engine idling speed, rpm	1 - 5 - 3 - 6 - 2 - 4	1 - 5 - 3 - 6 - 2 - 4
Fuel, rec. octane	590	590
Max output, kW (hp)/rpm.	91–98 RON	91–98 RON
Max torque, Nm/rpm.	179 (243) / 6400	224 (304) / 5600
	320 / 3200	440 / 2100–4200

POWER AND TORQUE →

Manual gearbox/final drive		
Automatic gearbox/final drive	AW TF-80SC FWD/AWD 3.750/3.750	AW TF-80SC 3.464
PERFORMANCE		
Gearbox	Automatic FWD Automatic AWD	Automatic
Acceleration, 0–100 km/h (sec)	8.8 9.0	6.9
Top speed, km/h	210 210	210
Fuel consumption l/100 km (Combined)	10.1 10.1	10.6
CO <sub>2</sub> g/km	234 234	248

TRANSMISSIONS

6-speed manual and automatic gearbox.  
6-speed powershift.

RATIO	AWTF-80SC (FWD)	AWTF-80SC (AWD)	M66K M3A	M66E N5A
First	4.148	4.148	3.583	3.750
Second	2.370	2.370	1.905	1.905
Third	1.556	1.556	1.194	1.194
Fourth	1.155	1.115	0.838	0.838
Fifth	0.859	0.859	0.652	0.652
Sixth	0.686	0.686	0.540	0.540
Reverse	3.394	3.394	3.395	3.436

ENGINES		
Type	D4 (D5204T3)	D4 (D5244T17)
Configuration	In-line 5-cyl. turbo diesel	In-line 5-cyl. turbo diesel
Displacement, cm³	Transverse, front wheel drive	Transverse, all wheel drive
Bore (mm)	1984	2400
Stroke (mm)	81.0	81.0
Engine cylinder block material	77.0	93.15
Cylinderhead material	Aluminium	Aluminium
Compression ratio	Aluminium	Aluminium
Valves, no/cylinder	16.5:1	16.5:1
Camshafts	4	4
Engine management system	2	2
Ignition sequence	Electronically controlled common rail direct injection	Electronically controlled common rail direct injection
Engine idling speed, rpm	1 - 2 - 4 - 5 - 3	1 - 2 - 4 - 5 - 3
Fuel, rec. octane	700	700 Auto / 740 man
Max output, kW (hp)/rpm.	Cetane Number: Min 48	Cetane Number: Min 48
Max torque, Nm/rpm.	120 (163) / 3500	120 (163) / 4000
	400 / 1500–2750	420 / 1500–2500

POWER AND TORQUE →

Manual gearbox/final drive	M66K M3A 4.000	M66E N5A 4.530
Automatic gearbox/final drive	AW TF-80SC 3.329	AW TF-80SC 3.604
PERFORMANCE		
Gearbox	Manual Automatic	Manual Automatic
Acceleration, 0–100 km/h (sec)	10.2 10.2	10.4 10.8
Top speed, km/h	205 200	200 195
Fuel consumption l/100 km (Combined)	5.3 5.9	5.3 6.4
CO <sub>2</sub> g/km	139 154	139 169

CHASSIS

Suspension	front	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
	rear	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
Steering		Power Assisted Rack and Pinion Steering
Turning circle, (curb to curb)		11.5 m
Braking system		Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Braking distance, 100–0 km / h		39 m
Brake disc diameter	front	316 mm
	rear	302 mm

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ENGINES		
Type	D5 (D5244T11)	D5 (D5244T15)
Configuration	In-line 5-cyl. turbo diesel	In-line 5-cyl. turbo diesel
Displacement, cm³	Transverse, all wheel drive	Transverse, all wheel drive
Bore (mm)	2400	2400
Stroke (mm)	81.0	81.0
Engine cylinder block material	93.15	93.15
Cylinderhead material	Aluminium	Aluminium
Compression ratio	Aluminium	Aluminium
Valves, no/cylinder	16.5:1	16.5:1
Camshafts	4	4
Engine management system	2	2
Ignition sequence	Electronically controlled common rail direct injection	Electronically controlled common rail direct injection
Engine idling speed, rpm	1 - 2 - 4 - 5 - 3	1 - 2 - 4 - 5 - 3
Fuel, rec. octane	740	700
Max output, kW (hp)/rpm.	Cetane Number: Min 48	Cetane Number: Min 48
Max torque, Nm/rpm.	158 (215) / 4000	158 (215) / 4000
	420 / 1500–3250	440 / 1500–3000

POWER AND TORQUE →

Manual gearbox/final drive	M66E N5A 4.530	
Automatic gearbox/final drive		AW TF-80SC 3.604
PERFORMANCE		
Gearbox	Manual	Automatic
Acceleration, 0–100 km/h (sec)	8.0	8.3
Top speed, km/h	210	205
Fuel consumption l/100 km (Combined)	5.3	6.4
CO <sub>2</sub> g/km	139	169

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MEASUREMENTS AND VOLUMES	
EXTERIOR MEASUREMENTS (CM)	
Length	483.8
Width (without mirrors)	187.0
Height (including shark fin)	160.4
Wheelbase	281.5
Track, front, (16"/17")	161.4 / 160.4
Track, rear, (16"/17")	158.0 / 157.0
Ground clearance, curb (5 cyl / 6 cyl engines)	21.0 / 21.5

WEIGHTS/MISCELLANEOUS	
Curb weight, kg (min–max, depending on setup)	1713–1956
Fuel tank, l	70
Max. trailer weight, kg	1600–2100
Max roof load, kg	100
Drag coefficient, Cd	0.35

INTERIOR MEASUREMENTS (CM)	
Headroom without sunroof (front/rear)	98.5 / 98.1
Headroom with sunroof (front/rear)	95.9 / 97.7
Passenger compartment width at shoulder height (front/rear)	145.7 / 143.4
Leg room (front/rear)	106.4 / 88.0
Cargo vaolume, including under floor storage (ISO V211)	575
Cargo length from the first seatback to the tailgate measured at: – the height of the floor covering	187.8
Cargo length from the second seatback to the tailgate measured at: – the height of the floor covering	108.9
Cargo height (rear wheel center and car center line)	80.1
Rear opening height (car center line)	72.4
Width of luggage compartment between wheelhouses	113.0

