210

10.6

248

Volvo XC70

ENGINES	T5 (B4204T11)	T6 AWD (B6304T4)	
Туре	In-line 4-cyl. petrol	In-line 6-cyl. turbo petrol	
Configuration	Transverse, front wheel drive	Transverse, all wheel drive	
Displacement, cm ³	1969	2953	
Bore (mm)	82.0	82.0	
Stroke (mm)	93.2	93.2	
Engine cylinder block material	Aluminium	Aluminium	
Cylinderhead material	Aluminium	Aluminium	
Compression ratio	10.8:1	9.3:1	
Valves, no/cylinder	4	4	
Camshafts	2	2	
Engine management system	Integrated fuel (SFI)/ignition	Integrated fuel (SFI)/ignition	
	control systems	control systems	
Ignition sequence	1 - 3 - 4 - 2	1 - 5 - 3 - 6 - 2 - 4	
Engine idling speed, rpm	875-950	590	
Fuel, rec. octane	91-98 RON	91-98 RON	
Max output, kW (hp)/rpm	180 (245)/5500	224 (304)/5600	
Max torque, Nm/rpm	350/1500-4800	440/2100-4200	
POWER AND TORQUE →	[kW] [Nm] 275 250 225 225 450 450 450 450 45	[kW] [Nm] 278 250 250 225 200 172 150 150 250 250 250 250 250 25	
Manual gearbox/final drive			
Automatic gearbox/final drive	AW TF-81SC 3.075	AW TF-80SC 3.464	
PERFORMANCE			
Gearbox	Automatic	Automatic	
Acceleration, 0-100 km/h (sec)	6.8	6.9	
T 11 /	0.10	0.10	

TRANSMISSIONS

Top speed, km/h

CO₂ g/km

6-speed manual and automatic gearbox.

8-speed automatic gearbox.

Fuel consumption I/100 km (Combined)

RATIO	AW TF-80SC	AW TG-81SC	M66F FD	M66E N5A
First	4.148	5.250	3.583	3.750
Second	2.370	3.029	2.050	1.905
Third	1.556	1.950	1.267	1.194
Fourth	1.155	1.457	0.838	0.838
Fifth	0.859	1.221	0.617	0.652
Sixth	0.686	1.000	0.510	0.540
Seventh		0.809		
Eighth		0.673		
Reverse	3.394	4.015	2.833	3.436

210

6.7

157

→ CONT'D VOLVO XC70 CONT'D VOLVO XC70

Type	ENGINES	D4 (D5204T3)		D4 AWD (D5244T1)	7)	D4 (D4204T5)		
Transverse, front wheel drive Transverse, front wheel drive Transverse, front wheel drive Displacement, cm² 1984 2400 1986								
Deplacement, cm² 1994 2400 1969		,		,		,		
Bore (mm)				·		·		
Stroke (mm) 77.0 93.15 93.2								
Engine cylinder block material Aluminium Alum								
Aluminium	- 	Aluminium		Aluminium		Aluminium		
Compression ratio 16.5:1 15.8:1				Aluminium				
Valves, no/cylinder 4 4 4 2		16.5:1		16.5:1		15.8:1		
Camshafts 2 2 Engine management system Electronically controlled common rail direct injection Electronically controlled common rail direct injection Common rail direct injection Electronically controlled common rail direct injection Ignition sequence 1 - 2 - 4 - 5 - 3 1 - 2 - 4 - 5 - 3 1 - 3 - 4 - 2 1 - 3 - 4 - 2 Engine idling speed, rpm 700 700 Auto/740 man 825 Electronically controlled common rail direct injection Max output, kW (hp)/rpm 120 (163)/3500 120 (163)/4000 133 (181)/4250 Max torque, Nm/rpm 400/1500-2750 420/1500-2500 400/1750-2500 Temper Towns Temper Towns 100 (163)/4000 133 (181)/4250 Heavy (170 / 270) Towns 420/1500-2500 400/1700-2500 Towns 100 (163)/4000 133 (181)/4250 Towns 100 (163)/4000 130 (163)/4000 130 (163)/4000 Towns 100 (163)/4000 130 (163)/4000 130 (163)/4000 130 (163)/4000 130 (163)/4000 130 (163)/4000 130 (163)/4000 130 (163)/4000	-	4		4		4		
Common rail direct injection Common rail direct injection	·			2				
Engine idling speed, rpm 700 700 Auto/740 man 825 Fuel, rec. octane Cetane Number: Min 48 Accollaboration of the state of the s	Engine management system	*		,		,		
Engine idling speed, rpm 700 700 Auto/740 man 825 Fuel, rec. octane Cetane Number: Min 48 Cetane Number: Min	Ignition sequence	1 - 2 - 4 - 5 - 3		1 - 2 - 4 - 5 - 3		1 - 3 - 4 - 2	·	
Fuel, rec. octane Cetane Number: Min 48		700			an			
Max torque, Nm/rpm 400/1500−2500 420/1500−2500 400/1750−2500		Cetane Number: Min	48	Cetane Number: N	Min 48	Cetane Number: N	Min 48	
POWER AND TORQUE → Power Note Power Torque Power Power Torque Power Power	Max output, kW (hp)/rpm	120 (163)/3500		120 (163)/4000				
POWER AND TORQUE →								
Automatic gearbox/final drive AW TF-80SC 3.075 AW TF-80SC 3.604 AW TG-81SC 2.839 PERFORMANCE Gearbox Manual Automatic Manual Automatic Manual Automatic Acceleration, 0–100 km/h (sec) 10.2 10.4 10.8 8.8 8.8 Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9	POWER AND TORQUE →	275 280 225 200 175 150 100 25 1000 2000 2000 2000 4000 Engine spe	550 500 450 460 350 300 250 150 100 Torque 50	275 290 225 200 175 150 100 25 25 26 26 27 27 28 29 200 200 200 200 200 200 200 200 200	500 500 450 450 400 350 350 250 250 250 150 100 500 500 500 500 500 500 500	275 250 225 200 175 150 125 100 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	550 500 450 450 450 450 450 450 450 450	
PERFORMANCE Gearbox Manual Automatic Manual Automatic Manual Automatic Acceleration, 0–100 km/h (sec) 10.2 10.2 10.4 10.8 8.8 8.8 Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9	Manual gearbox/final drive	M66D	3.770	M66E N5A	4.530	M66F FD	4.267	
Gearbox Manual Automatic Manual Automatic Manual Automatic Acceleration, 0-100 km/h (sec) 10.2 10.2 10.4 10.8 8.8 8.8 Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9		AW TF-80SC	3.075	AW TF-80SC	3.604	AW TG-81SC	2.839	
Acceleration, 0-100 km/h (sec) 10.2 10.2 10.4 10.8 8.8 8.8 Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9	PERFORMANCE							
Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9	Gearbox	Manual	Automatic	Manual	Automatic	Manual	Automatic	
Top speed, km/h 205 200 200 195 210 210 Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9	Acceleration, 0-100 km/h (sec)	10.2	10.2	10.4	10.8	8.8	8.8	
Fuel consumption I/100 km (Combined) 5.3 5.9 5.3 6.4 4.5 4.9						210		
· · · · · · · · · · · · · · · · · · ·								
					169			

Suspension	front	McPherson 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

→ CONT'D VOLVO XC70 → CONT'D VOLVO XC70 →

ENGINES	D4 AWD (D5244T12)	D	5 AWD (D5244T11)	D5 AWD (D5244T15)	
Туре	In-line 5-cyl. turbo diesel		ı-line 5-cyl. turbo diesel	In-line 5-cyl. turbo diesel	
Configuration	Transverse, all wheel drive		ransverse, all wheel drive	Transverse, all wheel drive	
Displacement, cm ³	2400		400	2400	
Bore (mm)	81.0	8.	1.0	81.0	
Stroke (mm)	93.2	93	3.15	93.15	
Engine cylinder block material	Aluminium	Al	luminium	Aluminium	
Cylinderhead material	Aluminium	Al	luminium	Aluminium	
Compression ratio	16.5:1	16	6.5:1	16.5:1	
Valves, no/cylinder	4	4		4	
Camshafts	2	2		2	
Engine management system	Electronically controlled common rail direct injection		lectronically controlled ommon rail direct injection	Electronically controlled common rail direct injec	
Ignition sequence	1 - 2 - 4 - 5 - 3	1	- 2 - 4 - 5 - 3	1 - 2 - 4 - 5 - 3	
Engine idling speed, rpm	700	74	40	700	
Fuel, rec. octane	Cetane Number: Min 48	Ce	etane Number: Min 48	Cetane Number: Min 48	}
Max output, kW (hp)/rpm	133 (181)/4000	15	58 (215)/4000	158 (215)/4000	
Max torque, Nm/rpm	420/1500-2500	42	20/1500-3250	440/1500-3000	
POWER AND TORQUE →		[Nm] [LW] 550 275 550 275 550 275 450 225 450 225 400 200 175 250 125 200 100 150 75 250 250 200 100 250 250 250	5 460 400 5 300 5 250 200 150	[kw] 275 250 225 200 175 150 100 25 Engine speed [rpm]	550 500 450 400 350 300 250 200 150 100 50 50
Manual gearbox/final drive	M66E N5A 4.53	0 M	166E N5A 4.530		
Automatic gearbox/final drive	AW TF-80SC 3.32	9		AW TF-80SC 3.6	604
PERFORMANCE					
Gearbox		matic M	lanual	Aı	utomatic
Acceleration, 0-100 km/h (sec)	9.2 9.5	8.		8.	3
Top speed, km/h	205 200	2	10	20	05
Fuel consumption I/100 km (Combined)	5.3 6.4	5.	3	6.	4
CO ₂ g/km	139 169	13	39	16	69

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 engins)	21.0/21.5

WEIGHTS/MISCELLANEOUS

Curb weight, kg (min-max, depending on setup)	1830-1940
Fuel tank, I	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
Headroom maximum, without sunroof (front)	101.0
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







