# Volvo XC70

### ENGINES

Fuel, rec. octane Max output, kW (hp)/rpm. Max torque, Nm/rpm.

ENGINES
Туре
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm

D5 (D5244T15)
In-line 5-cyl. turbo diesel
Transverse, all wheel drive
2400
81.0
93.15
Aluminium
Aluminium
16.5:1
4
2
Electronically controlled
common rail direct injection
1 - 2 - 4 - 5 - 3
700
Cetane Number: Min 48
158 (215) / 4000
440 / 1500-3000

- POWER --- TORQUE

3000 4000 5000 6000 Engine speed rpm

**a, Nm** 500

475

450

425

400

375

350

325

300 275

250

225

200

175 150

125

100

75

50

25

7000

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**Pov** 275

250

225

200

175

150

125

100

75

50

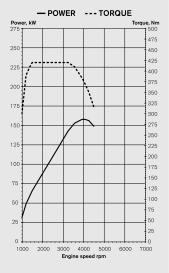
25

0

1000

2000

D5	(D5244T11)
In-	line 5-cyl. turbo diesel
Tra	nsverse, all wheel drive
24	00
81	.0
93	.15
Alı	uminium
Alu	uminium
16	.5:1
4	
2	
Ele	ectronically controlled
COI	mmon rail direct injection
1 -	- 2 - 4 - 5 - 3
74	0
Се	tane Number: Min 48
15	8 (215) / 4000
42	0 / 1500-3250



## POWER AND TORQUE $\rightarrow$

Manual gearbox/final drive

Gearbox

CO<sub>2</sub> g/km

Top speed, km/h

Automatic gearbox/final drive PERFORMANCE

Acceleration, 0-100 km/h (sec)

Fuel consumption I/100 km (Combined)

AW TF-80SC	3.604
Automatic	
8.3	
205	
6.8	
179	

AW TF-80SC	3.604
Automatic	
8.3	
205	
6.8	
179	
8.3 205 6.8	

M66E N5A	4.533
Manual	
8.0	
210	
5.6	
149	

## TRANSMISSIONS

5- or 6-speed manual gearbox.

5-speed adaptive automatic transmissions with Geartronic. electronically controlled. with lock-up and winter mode selection.

RATIO	AWTF-80SC (FWD)	AWTF-80SC (AWD)	М66К МЗА	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

Fuel, rec. octane Max output, kW (hp)/rpm. Max torque, Nm/rpm.

ENGINES
Туре
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm

D3 (D5244T17)
In-line 5-cyl. turbo diesel
Transverse, all wheel drive
2400
81.0
93.15
Aluminium
Aluminium
16.5:1
4
2
Electronically controlled
common rail direct injection
1 - 2 - 4 - 5 - 3
700 Auto / 740 man
Cetane Number: Min 48
120 (163) / 4000
420 / 1500-2500

- POWER --- TORQUE

**a, Nm** 500

175

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Power

D3 (D52	04T3)
In-line 5	5-cyl. turbo diesel
Transve	rse, front wheel drive
1984	
81.0	
77.0	
Alumini	um
Alumini	um
16.5:1	
4	
2	
Electror	nically controlled
commor	n rail direct injection
1 - 2 -	4 - 5 - 3
700	
Cetane	Number: Min 48
120 (16	63) / 3500
400 / 1	500-2750

#### - POWER --- TORQUE **ie, Nm** 1<sup>500</sup> Power 275 -175 3000 4000 5000 6000 7000 Engine speed rpm

POWER AND TORQUE →

Manual gearbox/final drive	
Automatic gearbox/final drive	
PERFORMANCE	
Gearbox	
Acceleration, 0–100 km/h (sec)	
Top speed, km/h	
Fuel consumption I/100 km (Combined)	
CO <sub>2</sub> g/km	

M66E N5A	4.533
AW TF-80SC	3.604
Manual	Automatic
10.4	10.8
200	195
5.6	6.8
149	179

1000 2000 3000 4000 5000 6000 Engine speed rpm

Automatic
10.2
200
6.4
169

3.329

AW TF-80SC

Suspension from		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		Power Assisted Rack and Pinion Steering	
Turning circle, curb to curb, 11,5			
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	

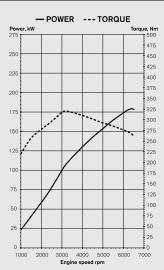
Max torque, Nm/rpm.

ENGINES	T6 (B6304T4)	
Туре	In-line 6-cyl. turbo petrol	
Configuration	Transverse, all wheel drive	
Displacement, cm <sup>3</sup>	2953	
Bore (mm)	82.0	
Stroke (mm)	93.2	
Engine cylinder block material	Aluminium	
Cylinderhead material	Aluminium	
Compression ratio	9.3:1	
Valves, no/cylinder	4	
Camshafts	2	
Engine management system	Integrated fuel (SFI) / ignition	
	systems	
Ignition sequence	1 - 5 - 3 - 6 - 2 - 4	
Engine idling speed, rpm	590	

Bore (mm)	82.0
Stroke (mm)	93.2
Engine cylinder block material	Aluminium
Cylinderhead material	Aluminium
Compression ratio	9.3:1
Valves, no/cylinder	4
Camshafts	2
Engine management system	Integrated fuel (SFI) / ignition control
	systems
Ignition sequence	1 - 5 - 3 - 6 - 2 - 4
Engine idling speed, rpm	590
Fuel, rec. octane	91–98 RON
Max output, kW (hp)/rpm.	224 (304) / 5600
Max torque, Nm/rpm.	440 / 2100-4200

Power, kV

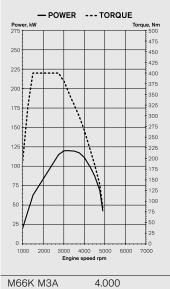
	<b>3.2</b> (B6324S5)		
	In-line 6-cyl. petrol		
	Transverse, front and all wheel drive		
	3192		
	84.0		
	96.0		
	Aluminium		
	Aluminium		
	10.8:1		
	4		
	2		
trol	Integrated fuel (SFI) / ignition control		
	systems		
	1 - 5 - 3 - 6 - 2 - 4		
	650		
	91–98 RON		
	179 (243) / 6400		
	320 / 3200		



AW TF-80SC	FWD/AWD	3.75/3.75	

Automatic FWD	Automatic AWD
8.8	9.0
210	210
10.1	10.1
234	234

DRIVE (D5204T3)
In-line 5-cyl. turbo diesel
Transverse, front wheel drive
1984
81.0
77.0
Aluminium
Aluminium
16.5:1
4
2
Electronically controlled
common rail direct injection
1 - 2 - 4 - 5 - 3
700
Cetane Number: Min 48
120 (163) / 3500
400 / 1500-2750



Manual	
10.2	
205	
5.5	
144	

## POWER AND TORQUE $\rightarrow$

		150
	75	125
	50	100
		75
	25	50
		25
	0 2000 3000 4000 5000 6000	
	Engine speed rpm	7000
	AW TF-80SC 3.464	
	Automatic	
	7.4	
	210	
d)	10.6	

POWER --- TORQUE

Torque, Nm 500

Manual gearbox/final drive	
Automatic gearbox/final drive	AW
PERFORMANCE	
Gearbox	Auto
Acceleration, 0-100 km/h (sec)	7.4
Top speed, km/h	210
Fuel consumption I/100 km (Combined)	10.6
CO <sub>2</sub> g/km	248

CO<sub>2</sub> g/km

August 2011

# 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)	1734-1815
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
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

