

Volvo XC90

ENGINES

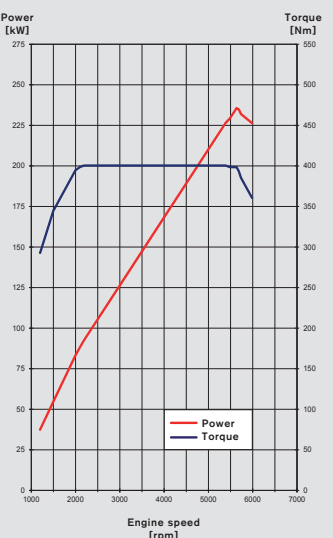
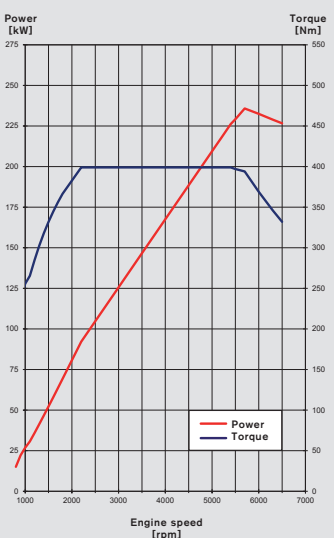
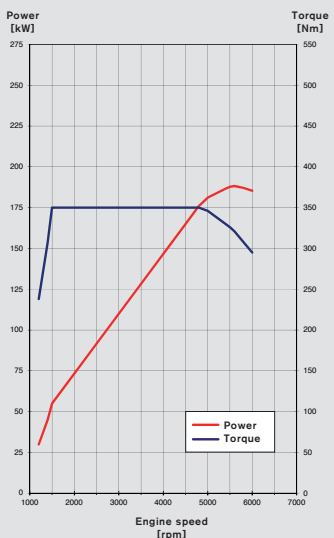
Type
Configuration
Displacement, cm ³
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

T5 AWD (B4204T23)
In-line 4-cyl. turbo
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.8:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850 ± 100
95-98 RON
187 (254)/5500
350/1500-4800

T6 AWD (B4204T27)
In-line 4-cyl. supercharged and turbocharged
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850 ± 100
95-98 RON
235 (320)/5700
400/2200-5400

T8 AWD (B4204T35)
In-line 4-cyl. supercharged and turbocharged
Transverse, front wheel drive, rear electric motor
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850 ± 100
95-98 RON
235 (320)/5700
400/2200-5400

POWER AND TORQUE →



Manual gearbox/final drive
Automatic gearbox/final drive

-
AW TG-81SC 3.329

-
AW TG-81SC 3.329

-
AW TG-81SD 3.200

PERFORMANCE

Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (Combined)
CO ₂ g/km

Automatic
8.2
215
7.5
174

Automatic
6.5
230
7.7
179

Automatic
5.6
230
2.1
49

Battery type
Battery content, total amount of energy (kwh)
Battery charging time*, at 16A/10A/6A fuse (hours)
Range (Km) (NEDC for hybrids)
Electrical motor max power (kW/rps)
Electrical motor max torque (Nm/rps)
Driveline max power (hp)
Driveline max power (kW)
Driveline max torque (Nm)
Battery placement

Lithium-ion battery
9.2
2.5/3.5/6.0
>43 km**
65/117
240/0-50
~407 (320+87)
~300 (235***+65)
~640 (400***+240)
Centrally in the tunnel of the car

*) Time pending on e.g. ambient temp.
 **) Pure electrical range according to NEDC cycle range
 ***) In *Hybrid*-, *Power* and *EL-AWD*-mode

ENGINES

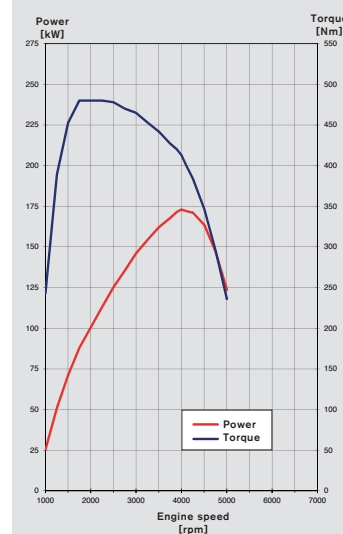
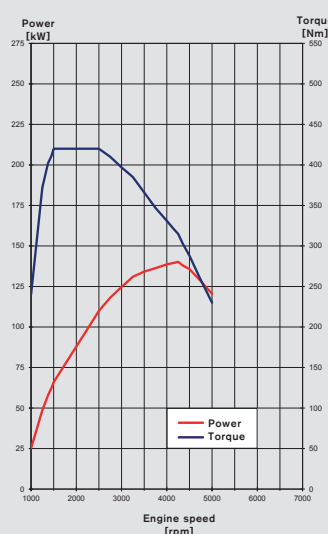
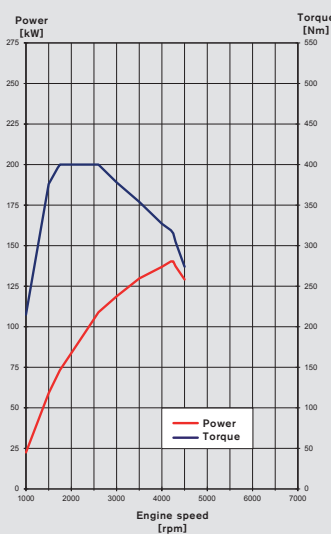
Type
Configuration
Displacement, cm ³
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

D4 (D4204T14)
In-line 4-cyl. twin turbo diesel
Transverse, front wheel drive
1969
82.0
93.2
Aluminium
Aluminium
15.8:1
4
2
i-Art common rail direct injection
1 - 3 - 4 - 2
825 ± 150
Cetane Number: Min 48*
140 (190)/4250
400/1750–2500

D4 AWD (D4204T6)
In-line 4-cyl. twin turbo diesel
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
15.8:1
4
2
i-Art common rail direct injection
1 - 3 - 4 - 2
825 ± 150
Cetane Number: Min 48*
140 (190)/4250
420/1500–2500

D5 AWD (D4204T23)
In-line 4-cyl. twin turbo diesel
Transverse, front wheel drive
1969
82.0
93.2
Aluminium
Aluminium
15.8:1
4
2
i-Art common rail direct injection
1 - 3 - 4 - 2
825 ± 150
Cetane Number: Min 48*
173 (235)/4000
480/1750–2250

POWER AND TORQUE →



Manual gearbox/final drive
Automatic gearbox/final drive

-
AW TG-81SC 3.200

-
AW TG-81SC 3.075

-
AW TG-81SC 3.075

PERFORMANCE

Gearbox
Acceleration, 0–100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (Combined)
CO ₂ g/km

Automatic
9.2
205
5.2
136

Automatic
9.4
200
5.7
149

Automatic
7.8
220
5.7
149

* Maximum biodiesel (RME) content 7%

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TRANSMISSIONS

6-speed manual gearbox
8-speed automatic gearbox

RATIO	AW TG-81SC	AW TG-81SD
First	5.250	5.250
Second	3.029	3.029
Third	1.950	1.950
Fourth	1.457	1.457
Fifth	1.221	1.221
Sixth	1.000	1.000
Seventh	0.809	0.809
Eighth	0.673	0.673
Reverse	4.015	4.015

MEASUREMENTS AND VOLUMES

EXTERIOR MEASUREMENTS (CM)

Length	495.0
Width (incl mirrors outer edge)	214.0
Width (incl mirrors folded)	200.8
Height	177.6
Wheelbase	298.4
Overhang (front/rear)	88.7/107.9
Track, front, (tire (width): 235/275)	166.5/167.3
Track, front, with air suspension (tire (width): 235/275)	166.8/167.6
Track, rear, (tire (width): 235/275)	166.7/167.5
Track, rear, with air suspension (tire (width): 235/275)	167.1/167.9
Ground clearance (standard chassis/with air suspension)	23.8/22.7-26.7

WEIGHTS/MISCELLANEOUS

Weight, kg (running order, min-max, depending on setup)	2050-2319
Fuel tank, l (all/B4204T35)	71/50
Max. trailer weight, kg	1800-2700**
Max roof load, kg	100
Drag coefficient, Cd	0.29

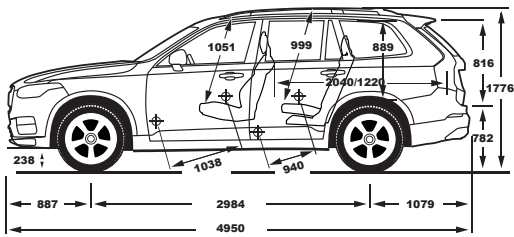
** Depending on setup

INTERIOR MEASUREMENTS (CM)

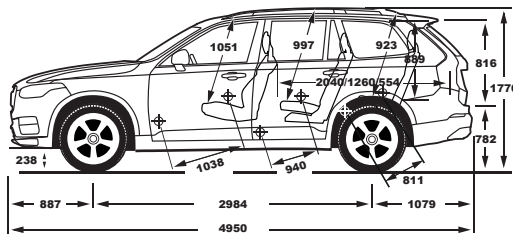
Headroom without panorama roof (front/rear) (5 seat)	99.8/99.9
Headroom without panorama roof (front/rear/third row) (7 seat)	99.8/99.7/92.3
Headroom with panorama roof (front/rear) (5 seat)	98.7/97.9
Headroom with panorama roof (front/rear/third row) (7 seat)	98.7/97.9/92.3
Headroom maximum, without panorama roof (front) (5 & 7 seat)	105.1
Headroom maximum, with panorama roof (front) (5 & 7 seat)	103.3
Passenger comp width at shoulder height (front/rear) (5 seat)	146.5/143.5
Passenger comp width at shoulder height (front/rear/third row) (7 seat)	146.5/143.5/119.2
Leg room (front/rear) (5 seat)	103.8/94.0
Leg room (front/rear/third row) (7 seat)	103.8/94.0/81.1
Cargo volume, including under floor storage (ISO V214-1)(litres)(5 seat/7 seat/7 seat T8*)	1886/1868/1816
Cargo length from the first seatback to the tailgate measured at: - the height of the floor covering	204.0
Cargo length from the second seatback to the tailgate measured at: - the height of the floor covering (5/7 seat)	122.0/126.0
Cargo height (rear wheel center and car center line)	88.9
Rear opening height (car center line)	81.6
Width of luggage compartment between wheelhouses	113.0

*T8 Twin engine is only available as 7 seat version.

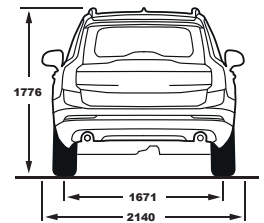
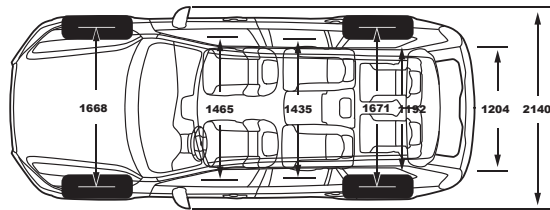
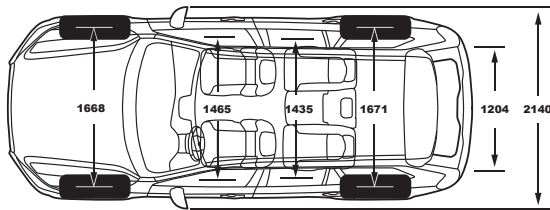
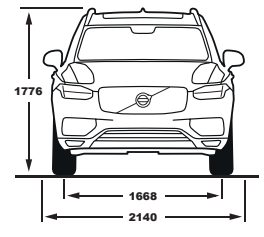
5 SEAT



7 SEAT



5 & 7 SEAT



CHASSIS

Suspension	front	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
	rear	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
Steering		Electric Power Assisted Rack and Pinion Steering
Turning circle, (curb to curb)		11.8 m/12.1 m (tire 235/275)
Braking system		Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Braking distance, 100-0 km/h		36 m
Brake disc diameter	front	345 mm/366 mm (all/B4204T35)
	rear	320 mm/340 mm (all/B4204T35)