2023 Volvo XC40 Technical Specifications

	T2 (129 hp) man/aut	B3 (163 hp) aut	B4 (197 hp) aut	B4 AWD (197 hp) aut	B5 AWD (250 hp) aut	T4 TwEn (211 hp) aut	T5 TwEn (262 hp) aut
ENGINE							
Engines	B315478	B420T4	B420T5	B420T5	B420T2	B315ET10	B315ET5
Type	In-line, 3 cyl. turbocharged	In-line, 4 cyl. turbocharged	In-line, 4 cyl. turbocharged	In-line, 4 cyl. turbocharged	In-line, 4 cyl. turbocharged	In-line, 3 cyl. turbocharged	In-line, 3 cyl. turbocharged
Configuration	FWD	FWD	FWD	AWD	AWD	FWD	FWD
Displacement	1477 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1477 cm³	1477 cm³
Bore	82.0 mm	82.0 mm	82.0 mm	82.0 mm	82.0 mm	82.0 mm	82.0 mm
Stroke	93.2 mm	93.2 mm	93.2 mm	93.2 mm	93.2 mm	93.2 mm	93.2 mm
Engine cylinder block material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Cylinder head material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Compression ratio	10.5:1	12.0:1	12.0:1	12.0:1	10.5:1	10.5:1	10.5:1
Valves, no/cylinder	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.
Camshafts	2 ea.	2 ea.	2 ea.	2 ea.	2 ea.	2 ea.	2 ea.
DOHC / SOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC
Engine management system	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection
Ignition sequence	1 - 3 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 2	1 - 3 - 2
Engine idling speed (rpm)	900 rpm ± 50	750 rpm ± 50	750 rpm ± 50	750 rpm ± 50	750 rpm ± 50	900 rpm ± 50	900 rpm ± 50
Fuel, rec. Octane	95–98 RON	95–98 RON	95–98 RON	95–98 RON	95–98 RON	95–98 RON	95–98 RON
Max engine speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6200 rpm	6000 rpm	6000 rpm
Max output, kW (hp)rpm	95 kW (129 hp) / 5000 rpm	120 kW (163 hp) / 4750 - 5250 rpm	145 kW (197 hp) / 4750 - 5250 rpm	145 kW (197 hp) / 4750 - 5250 rpm	184 kW (250 hp) / 5400 - 5700 rpm	95 kW (129 hp) / 5000 rpm	132 kW (180 hp) / 5800 rpm
Max torque, Nm/rps	245 / 27 - 50 Nm / rps	265 / 25 - 67 Nm / rps	300 / 25 - 75 Nm / rps	300 / 25 - 75 Nm / rps	350 / 30 - 80 Nm / rps	245 / 27 - 50 Nm / rps	265 / 25 - 50 Nm / rps
Battery type	-	-	-	-	-	Lithium-ion battery	Lithium-ion battery
Battery content, total amount of energy (kWh) (Nominal)	-	-	-	-	-	10.7	10.7
Battery content, total amount of energy (kWh) (Usable)	-	-	-	-	-	8.5	8.5
Battery charging time, at 16A / 10A / 6A fuse (hours) [1]	-	-	-	-	-	3.0 / 4.0 / 6.0	3.0 / 4.0 / 6.0
Battery placement	-	-	-	-	-	Centrally in the tunnel of the car	Centrally in the tunnel of the car
Electrical motor max power (kW)	-	10 kW	10 kW	10 kW	10 kW	60 kW	60 kW
Electrical motor max torque (Nm)	-	40 Nm	40 Nm	40 Nm	40 Nm	160 Nm	160 Nm
Drivetrain max power (kW)	-	-	-	-	-	60 kW + 95 kW [2]	60 kW + 132 kW [2]
Drivetrain max torque (Nm)	-	-	-	-	-	160 Nm + 245 Nm [2]	160 Nm + 265 Nm [2]
TRANSMISSION							
Transmissions	M76 R6.2 / AWF8G30	7DCT EVO	7DCT EVO	7DCT EVO	-	7DCTH	7DCTH
First Gear	3.583 / 5.070	3.529	3.529	-	-	3.529	3.529
Second Gear	2.048 / 2.972	2.810	2.810	-	-	2.810	2.810
Third Gear	1.310 / 1.950	1.395	1.395	-	-	1.441	1.441
Fourth Gear	0.919 / 1.470	1.043	1.043	-	-	1.043	1.043
Fifth Gear	0.690 / 1.231	1.105	1.105	-	-	1.086	1.086
Sixth Gear	0.578 / 1.000	0.851	0.851	-	-	0.851	0.851
Seventh Gear	- / 0.808	0.725	0.725	-	-	0.725	0.725
Eighth Gear	- / 0.672	-	-	-	-	-	-
Reverse Gear	3.333 / 4.003	2.905	2.905	-	-	2.905	2.905
Manual Gearbox / final drive	4.563	-	-	-	-	4.647 (Final drive 1) - 3.435 (Final drive 2)	4.647 (Final drive 1) - 3.435 (Final drive 2)
Automatic Gearbox / final drive	3.502	4.647 (Final drive 1) - 3.435 (Final drive 2)	4.647 (Final drive 1) - 3.435 (Final drive 2)	-	-	-	-
Transmissions (AWD)	-	-	-	7DCT EVO	AWF8G45	-	-
First Gear (AWD)	-	-	-	3.529	5.057	-	-
Second Gear (AWD)	-	-	-	2.810	3.070	-	-
Third Gear (AWD)	-	-	-	1.395	2.050	-	-
Fourth Gear (AWD)	-	-	-	1.043	1.520	-	-
Fifth Gear (AWD)	-	-	-	1.105	1.252	-	-
Sixth Gear (AWD)	-	-	-	0.851	1.000	-	-
Seventh Gear (AWD)	-	-	-	0.725	0.792	-	-
Eighth Gear (AWD)	-	-	-	-	0.661	-	-
Reverse Gear (AWD)	-	-	-	2.905	3.992	-	-
Automatic Gearbox / final drive (AWD)	-	-	-	4.647 (Final drive 1) - 3.435 (Final drive 2)	4.647 (Final drive 1) - 3.435 (Final drive 2)	-	-
PERFORMANCE							
Performance	Manual / Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Gearbox	M76 R6.2 / AWF8G30	7DCT EVO	7DCT EVO	7DCT EVO	AWF8G45	7DCTH	7DCTH
Acceleration, 0-100 km/h	10.9 sec / 10.9 sec	8.6 sec	7.6 sec	7.6 sec	6.4 sec	8.5 sec	7.3 sec
Top speed	180 km/h / 180 km/h	180 km/h	180 km/h	180 km/h	180 km/h	180 km/h	180 km/h
WLTP "Low" l/100 km / CO_2 g/km	8.9 - 9.6 l/100 km / 203 - 216 g/km / 10.0 - 10.6 l/100 km / 226 - 240 g/km	9.1 - 9.6 l/100 km / 208 - 219 g/km	9.0 - 9.7 l/100 km / 204 - 221 g/km	9.6 - 10.0 l/100 km / 217 - 227 g/km	11.3 - 11.7 l/100 km / 256 - 265 g/km	-	-
WLTP "Medium" l/100 km / CO_2 g/km	6.7 - 7.4 l/100 km / 152 - 167 g/km / 7.2 - 7.8 l/100 km / 163 - 176 g/km	6.1 - 6.9 l/100 km / 139 - 156 g/km	6.2 - 7.0 l/100 km / 139 - 158 g/km	6.6 - 7.2 l/100 km / 150 - 164 g/km	7.4 - 7.9 l/100 km / 167 - 179 g/km	-	-
WLTP "High" l/100 km / CO_2 g/km	5.9 - 6.6 l/100 km / 135 - 149 g/km / 6.2 - 6.7 l/100 km / 140 - 151 g/km	5.6 - 6.2 l/100 km / 126 - 142 g/km	5.6 - 6.2 l/100 km / 127 - 141 g/km	6.0 - 6.6 l/100 km / 135 - 149 g/km	6.4 - 6.9 l/100 km / 145 - 157 g/km	-	-
WLTP "Extra High" l/100 km / CO_2 g/km	7.2 - 8.0 l/100 km / 167 - 182 g/km / 7.3 - 8.0 l/100 km / 164 - 182 g/km	6.8 - 7.6 l/100 km / 153 - 173 g/km	6.8 - 7.6 l/100 km / 154 - 172 g/km	7.1 - 7.9 l/100 km / 161 - 179 g/km	7.6 - 8.3 l/100 km / 172 - 188 g/km	-	-
WLTP Combined l/100 km / CO_2 g/km	7.0 - 7.6 l/100 km / 158 - 173 g/km / 7.3 - 7.9 l/100 km / 165 - 179 g/km	6.6 - 7.3 l/100 km / 150 - 166 g/km	6.6 - 7.3 l/100 km / 150 - 166 g/km	7.0 - 7.8 l/100 km / 158 - 173 g/km	7.7 - 8.2 l/100 km / 174 - 187 g/km	2.1 - 2.5 l/100 km / 47 - 55 g/km	2.1 - 2.5 l/100 km / 47 - 55 g/km
Electric Range [EAER] WLTP, Comb.	-	-	-	-	-	46 - 42 km	46 - 42 km
Electric Consumption (kWh/100 km)	-	-	-	-	-	15.3 - 15.9 kWh/100 km	15.3 - 15.9 kWh/100 km
MEASUREMENTS AND VOLUMES							
Length	4440 mm	4440 mm	4440 mm	4440 mm	4440 mm	4440 mm	4440 mm
Width (Body width)	1863 mm	1863 mm	1863 mm	1863 mm	1863 mm	1863 mm	1863 mm
Width (mirrors folded)	1910 mm	1910 mm	1910 mm	1910 mm	1910 mm	1910 mm	1910 mm
Width (including mirrors, outer edge)	2034 mm	2034 mm	2034 mm	2034 mm	2034 mm	2034 mm	2034 mm
Height (including shark fin)	1652 mm	1652 mm	1652 mm	1652 mm	1652 mm	1652 mm	1652 mm
Height with open tailgate/trunklid (H110)	2136 mm	2136 mm	2136 mm	2136 mm	2136 mm	2136 mm	2136 mm
Wheelbase	2702 mm	2702 mm	2702 mm	2702 mm	2702 mm	2702 mm	2702 mm
Track, front	1601 mm	1601 mm	1601 mm	1601 mm	1601 mm	1601 mm	1601 mm
Track, rear	1626 mm	1626 mm	1626 mm	1626 mm	1626 mm	1626 mm	1626 mm
Ground clearance (at curb weight + 1 person)	205 mm	205 mm	05 mm	205 mm	205 mm	205 mm	205 mm
Approach angle (at curb weight)	20.3 deg°	20.3 deg°	20.3 deg°	20.3 deg°	20.3 deg°	20.0 deg°	20.0 deg°
Breakover angle (at curb weight)	20.0 deg°	20.0 deg°	20.0 deg°	20.0 deg°	20.0 deg°	20.0 deg°	20.0 deg°
Departure angle (at curb weight)	26.9 deg°	26.9 deg°	26.9 deg°	26.9 deg°	26.9 deg°	26.9 deg°	26.9 deg°
Wading capability depth at curb weight (max speed 10 km/h)	450 mm	450 mm	450 mm	450 mm	450 mm	Up to a depth approximately level with the floor at walking speed	Up to a depth approximately level with the floor at walking speed
WEIGHT/MISCELLANEOUS							
Weight (Depending on type of engine, gearbox etc.)	1580 kg - 1812 kg	1580 kg - 1812 kg	1580 kg - 1812 kg	1580 kg - 1812 kg	1580 kg - 1812 kg	1580 kg - 1812 kg	1580 kg - 1812 kg
Total Weight (Depending on type of engine, gearbox etc.)	2080 kg - 2290 kg	2080 kg - 2290 kg	2080 kg - 2290 kg	2080 kg - 2290 kg	2080 kg - 2290 kg	2080 kg - 2290 kg	2080 kg - 2290 kg
Max trailer weight, Unbraked (Max)	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg
Max trailer weight, Braked (Max)	1600 kg	1600 kg	2000 kg	2100 kg	2100 kg	1800 kg	1800 kg
Fuel tank, Petrol	54 l	54 l	54 l	54 l	54 l	48 l	48 l
Aerodynamics, (Cd)	0.340	0.340	0.340	0.340	0.340	0.340	0.340
Aerodynamics, (Frontal area)	2.56 m²	2.56 m²	2.56 m²	2.56 m²	2.56 m²	2.56 m²	2.56 m²
Max roof load	75 kg	75 kg	75 kg	75 kg	75 kg	75 kg	75 kg
INTERIOR MEASUREMENTS							
Headroom without panorama roof (front) (Maximum)	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm
Headroom with panorama roof (front) (Maximum)	997 mm	997 mm	997 mm	997 mm	997 mm	997 mm	997 mm
Headroom without panorama roof (frontrear)	991 mm / 994 mm	991 mm / 994 mm	991 mm / 994 mm	991 mm / 994 mm	991 mm / 994 mm	991 mm / 994 mm	991 mm / 994 mm
Headroom with panorama roof (frontrear)	955 mm / 974 mm	955 mm / 974 mm	955 mm / 974 mm	955 mm / 974 mm	955 mm / 974 mm	955 mm / 974 mm	955 mm / 974 mm
Passenger compartment width at shoulder height (frontrear)	1440 mm / 1429 mm	1440 mm / 1429 mm	1440 mm / 1429 mm	1440 mm / 1429 mm	1440 mm / 1429 mm	1440 mm / 1429 mm	1440 mm / 1429 mm
Leg room (frontrear)	1040 mm / 917 mm	1040 mm / 917 mm	1040 mm / 917 mm	1040 mm / 917 mm	1040 mm / 917 mm	1040 mm / 917 mm	1040 mm / 917 mm
Hip room (frontrear)	1390 mm / 1388 mm	1390 mm / 1388 mm	1390 mm / 1388 mm	1390 mm / 1388 mm	1390 mm / 1388 mm	1390 mm / 1388 mm	1390 mm / 1388 mm
Largest Luggage volume - First (VZ14-1) (Largest volume. Load height limited by the head lining. Front limited by vertical plane tangential to the rear side of the front seatback) Total (including VZ05)	1328 l	1319 l	1319 l	1319 l	1319 l	1281 l	1281 l
Largest Luggage volume - Second (VZ14-2) (Second seat up. Load height limited by the headlining. Front limited by vertical plane tangential to the rear side of the front seatback) Total (including VZ05)	578 l	569 l	569 l	569 l	569 l	531 l	531 l
Open Luggage Compartment - First (VZ11-1) (Second seat folded. Load height limited to upper edge of the front seatback or lower edge of the rear window) Total (including VZ05)	893 l	884 l	884 l	884 l	884 l	846 l	846 l
Open Luggage Compartment - Second (VZ11-2) (Second seat up. Load height limited to the upper edge of the second seatback or second window) Total (including VZ05)	452 l	443 l	443 l	443 l	443 l	405 l	405 l
Luggage volume, Separate Storage Areas in Luggage Compartment. (VZ00). (Closed storage areas located around the luggage compartments, behind wheel arches, under the floor, or any other areas) - without rep kit and recess	101 l	92 l	92 l	92 l	92 l	-	-
Luggage volume, Separate Storage Areas in Luggage Compartment. (VZ00). (Closed storage areas located around the luggage compartments, behind wheel arches, under the floor, or any other areas) - with rep kit	82 l	77 l	77 l	77 l	77 l	54 l	54 l
Luggage volume, Separate Storage Areas in Luggage Compartment. (VZ00). (Closed storage areas located around the luggage compartments, behind wheel arches, under the floor, or any other areas) - with spare wheel	49 l	49 l	49 l	49 l	49 l	29 l	29 l
Cargo length from the first seatback to the tailgate measured at - the height of the floor covering (L212-1)	1670 mm	1670 mm	1670 mm	1670 mm	1670 mm	1670 mm	1670 mm
Cargo length from the first seatback to the tailgate measured at - the top of the first seatback (L214-1)	1527 mm	1527 mm	1527 mm	1527 mm	1527 mm	1527 mm	1527 mm
Cargo length from the second seatback to the tailgate measured at - the height of the floor covering (L212-2)	887 mm	887 mm	887 mm	887 mm	887 mm	887 mm	887 mm
Cargo length from the second seatback to the tailgate measured at - the top of the second seatback (L214-2)	676 mm	676 mm	676 mm	676 mm	676 mm	676 mm	676 mm
Cargo floor height to ground (H253) (curb weight)	755 mm	755 mm	755 mm	755 mm	755 mm	755 mm	755 mm
Rear opening height (H202) (car center line)	733 mm	733 mm	733 mm	733 mm	733 mm	733 mm	733 mm
Cargo height (H201) (rear wheel center and car center line)	746 mm	746 mm	746 mm	746 mm	746 mm	746 mm	746 mm
Cargo floor width, min. (W200) [SAE W201] (between wheel housings)	1004 mm	1004 mm	1004 mm	1004 mm	1004 mm	1004 mm	1004 mm
Rear opening width: upper min. (W205)	947 mm	947 mm	947 mm	947 mm	947 mm	947 mm	947 mm
Rear opening width at floor, min. (W207)	1059 mm	1059 mm	1059 mm	1059 mm	1059 mm	1059 mm	1059 mm
CHASSIS							
Suspension front	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
Suspension rear	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers,Stabilizer Bar
Steering	Electrical Power Assisted Rack	Electrical Power Assisted Rack	Electrical Power Assisted Rack	Electrical Power Assisted Rack	Electrical Power Assisted Rack	Electrical Power Assisted Rack	Electrical Power Assisted Rack
Steering ratio (angle/angle)	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Turning circle (Curb to curb)	11.4 m	11.4 m	11.4 m	11.4 m	11.4 m	11.4 m	11.4 m
Turning circle (Wall to wall)	11.8 m	11.8 m	11.8 m	11.8 m	11.8 m	11.8 m	11.8 m
Turns of steering wheel end to end	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Braking system	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Brake disc diameter (front) Brake: 15" / 17" / 18"	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm
Brake disc diameter (rear) Brake: 15" / 16" / 18"	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm	280 mm / 302 mm / 340 mm
Brake disc thickness (front) Brake: 15" / 17" / 18"	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm	25 mm / 28 mm / 30 mm
Brake disc thickness (rear) Brake: 15" / 16" / 18"	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm
Braking distance 100-0 km/h	36 m	36 m	36 m	36 m	36 m	36 m	36 m