# 2023 Wagoneer L / Grand Wagoneer L

## SPECIFICATIONS

Specifications are based on the latest product information available at the time of publication.  
All dimensions are in inches (millimeters) unless otherwise noted.  
All dimensions measured at curb weight with standard tires and wheels.

### GENERAL INFORMATION

Vehicle Type Four-door sport-utility vehicle

Assembly Plant Warren Truck Assembly Plant, Warren, Michigan

EPA Vehicle Class Multipurpose vehicle

Introduction Date Second half 2022 as a 2023 model

### BODY AND CHASSIS

Layout Front engine, rear- or four-wheel drive

Construction Steel frame

### ENGINE: 3.0-liter HURRICANE TWIN TURBO

Availability Standard — Wagoneer L

Type and Description In-line six-cylinder (I-6), Twin Turbocharged, direct injection, gasoline

Displacement, cu. in. (cu.cm.) 183 cu. in. (2.993 cu. cm)

Bore x Stroke, in. (mm) 3.31 x 3.54 (84 x 90)

Valve System DOHC, dual independent valve timing, hydroformed tubular camshafts, 24 valves with sodium-filled exhaust valves, roller finger followers and hydraulic lash adjusters

Fuel Injection Gasoline direct injection, centrally located injectors, single high pressure pump providing up to 5,075 psi (350 bar) to a single fuel rail

Construction Deep-skirt cast-aluminum block with cross-bolted steel main bearing caps, low friction plasma spray-bore coated cylinders, structural die-cast aluminum alloy oil pan, aluminum alloy head with pent-roof combustion chambers, forged and twisted steel crankshaft, forged steel connecting rods and cast aluminum alloy pistons with DLC coated piston pins

Compression Ratio 10.4:1

Power (SAE J2723) 420 hp (313 kW) @ 5,200 rpm

Torque (SAE J2723) 468 lb.ft. (635 Nm) @ 3,500 rpm

Max. Engine Speed 5,800 rpm (electronically limited)

Fuel Requirement Unleaded mid-grade, 89 octane (R+M)/2 — recommended

Unleaded regular, 87 octane (R+M)/2 — acceptable

### ENGINE: 3.0-liter HURRICANE TWIN TURBO (CONTINUED)

Oil Capacity 7.5 quarts (7.1 liters) oil change with filter

Coolant Capacity qt. (liter) High Temperature Circuit: 16.6 (15.7)   
Low Temperature Circuit: 2.85 (2.70)

Factory Oil Fill Pennzoil Ultra Platinum 0W-20 GF6+ (API SP)

Emission Controls Dual close-coupled two-stage three-way catalytic converters, quad heated oxygen sensors, cooled exhaust gas recirculation and internal engine features

EPA Fuel Economy mpg estimates   
(city/hwy/combined) 4x2: 17/24/20, 4x4: 16/23/19

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

### ENGINE: 3.0-liter HURRICANE TWIN TURBO 510

Availability Standard — Grand Wagoneer L

Type and Description In-line, liquid-cooled

Displacement, cu. in. (cu. cm.) 183 (2,993)

Bore x Stroke 3.31 x 3.54 (84 x 90)

Valve System DOHC, dual independent valve timing, hydroformed tubular camshafts, 24 valves with sodium-filled exhaust valves, roller finger followers and hydraulic lash adjusters

Fuel Injection Gasoline direct injection, centrally located injectors, dual high-pressure pumps providing up to 5,075 psi (350 bar) to a single fuel rail

Construction Deep-skirt cast-aluminum block with cross-bolted steel main bearing caps, low friction plasma spray-bore coated cylinders, structural die-cast aluminum alloy oil pan, aluminum alloy head with pent-roof combustion chambers, forged and twisted steel crankshaft, forged steel connecting rods and forged aluminum alloy pistons with DLC coated piston pins

Compression Ratio 9.5:1

Power (SAE J2723) 510 hp (375 kW) @ 5,700 rpm

Torque (SAE J2723) 500 lb.-ft. (678 N•m) @ 3,500 rpm

Max. Engine Speed 6,100 rpm (electronically limited)

Fuel Requirement Premium 91 octane (R+M)/2 — required

Oil Capacity, qt. (liter) 7.5 (7.1) oil change with filter

Coolant Capacity, qt. (liter) High Temp. Circuit: 16.6 (15.7) Low Temp. Circuit: 2.85 (2.70)

Factory Oil Fill Pennzoil Ultra Platinum 0W-40 API SP MS-A0921

Emission Controls Dual close-coupled two-stage three-way catalytic converters, quad heated oxygen sensors and internal engine features(a)

Exhaust Type Dual exhaust with black dual hidden tail pipes

### ENGINE: 3.0-liter HURRICANE TWIN TURBO 510 (continued)

EPA Fuel Economy mpg estimates   
(city/hwy/combined) 14/19/16

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

(a) Meets Federal Tier 3, Bin 70 emissions requirements; marketed in California as a LEV III ULEV70 (Ultra Low Emission Vehicle).

### TRANSMISSION: TORQUEFLITE 8HP75 AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability Standard — 3.0-liter Hurricane Twin Turbo, Hurricane Twin Turbo 510

Description Five clutches and four planetary gear set architecture. 7.03 overall ratio spread. Start/stop and electronic range select capability. Electronically modulated torque converter clutch with torsional turbine damper

Gear Ratios

1st 4.71

2nd 3.14

3rd 2.11

4th 1.67

5th 1.29

6th 1.00

7th 0.84

8th 0.67

Reverse 3.30

### TRANSFER CASE: 1-SPEED

Availability Optional — 3.0-liter Hurricane Twin Turbo

Type Single-speed

Operating Mode Full-time active 4x4

Torque Split, Front/Rear Variable — Auto, Tow, Snow, Mud, Sand, Rock, Sport

Low Range Ratio None

### TRANSFER CASE: 2-SPEED

Availability Optional — 3.0-liter Hurricane Twin Turbo

Standard — 3.0-liter Hurricane Twin Turbo 510

Type Two-speed electronically shifted

Operating Modes 4x4 Low Active, Neutral, full-time active 4x4

Low Range Ratio 2.64

Torque Split, Front/Rear Variable — Auto, Tow, Snow, Mud, Sand, Rock, Sport

### AXLES

Front

Differential Type Open

Availability Standard on 4x4 models

Ring Gear Diameter 8.5 (215)

Axle Ratios 3.55:1 — Standard with 3.0-liter Hurricane Twin Turbo

3.92:1 — Optional with 3.0-liter Hurricane Twin Turbo, standard with 3.0-liter Hurricane Twin Turbo 510

Rear

Differential Type Limited Slip or Electronic Limited Slip (ELSD)

Availability Limited Slip Differential — Standard with 3.0-liter Hurricane Twin Turbo

Electronic Limited Slip Differential (ELSD) — Optional with 3.0-liter Hurricane Twin Turbo, standard with 3.0-liter Hurricane Twin Turbo 510

Ring Gear Diameter (in/mm) 10.2 (260mm)

Axle Ratios 3.55:1 — Standard with 3.0-liter Hurricane Twin Turbo

3.92:1 — Optional with 3.0-liter Hurricane Twin Turbo, standard with 3.0-liter Hurricane Twin Turbo 510

### ELECTRICAL SYSTEM

Alternator 240-amp — Standard with 3.0-liter, Hurricane Twin Turbo and Hurricane Twin Turbo 510

Battery Maintenance-free

H7 AGM 700 CCA — Standard with 3.0-liter, Hurricane Twin Turbo and Hurricane Twin Turbo 510 with Aux AGM 200 CCA

### SUSPENSION

Front Short- and long-arm independent with hybrid steel composite upper control arm, aluminum lower control arm, aluminum knuckle, coil springs with monotube shocks or Quadra-lift air suspension with   
semi-active damping, solid or hollow stabilizer bar

Rear Five-link independent rear suspension, coil springs with monotube load leveling shocks or Quadra-lift air suspension with semi-active damping, solid or hollow stabilizer bar, cast aluminum links (tension, compression, camber, toe), and high strength steel spring link

### STEERING

Type Electric rack-and-pinion steering

Overall Ratio 16.0:1

Turning Diameter (curb-to-curb) (ft./m) 42.2 / 12.9

Steering Turns (lock-to-lock) 2.97

### BRAKES

Type Electronic power brakes (eBooster), anti-lock brake system (ABS)

Availability Standard

Front

Rotor size and type 14.88 x 1.18 (378 x 30) vented disc

Caliper size and type 2.24 (57) two-piston pin-slider caliper

Swept area, (sq. in. / sq. cm) 100.9 (651.5)

Rear

Rotor size and type 14.76 x 0.87 (375 x 22) solid disc

Caliper size and type 2.24 (57) single-piston pin-slider caliper with EPB

Swept area, (sq. in. / sq. cm) 79.2 (511.6)

### DIMENSIONS AND CAPACITIES

Wheelbase 130.0 (3,303)

Track, Front 68.4 (1,738)

Track, Rear 68.3 (1,734)

Overall Length 226.7 (5,759)

Overall Width (width at mirrors) 94.0 (2,388)

Body Width 83.6 (2,124)

Overall Height (at roof rail / at antenna) 79.6 (2023) / 77.3 (1963)

Load Floor Height 34.0 (864) — standard suspension

31.9 (811) — air suspension

Sill Step Height 22.8 (578) — standard suspension

21.1 (535) — air suspension

Ground Clearance (with 275/55R20 tire) 8.3 (210) — standard suspension

10.0 (253) — air suspension (Pos#2)

Chassis (fuel tank) 9.6 (245) — standard suspension

10.4 (265) — air suspension (Pos#2)

Front Axle 9.5 (242) — standard suspension

11.5 (293) — air suspension (Pos#2)

Rear Axle 8.9 (227) — standard suspension

10.9 (278) — air suspension (Pos#2)

### DIMENSIONS AND CAPACITIES (continued)

Approach Angle (degrees) 21.5 — standard suspension

25.0 — air suspension (Pos#2)

Ramp Breakover Angle (degrees) 17.8 — standard suspension

20.4 — air suspension (Pos#2)

Departure Angle (degrees) 18.8 — standard suspension

21.3 — air suspension (Pos#2)

Frontal Area sq. ft. (sq. m) 37.2 (3.46)

Drag Coefficient (Cd) 0.352 — Wagoneer L

0.364 — Grand Wagoneer L

Aero CdA sq. ft. (sq. m) 13.1 (1.22) — Wagoneer L

13.5 (1.26) — Grand Wagoneer L

Fuel Tank Capacity, (gallons / liter) 30.5 (115.4)

### ACCOMMODATIONS

Seating Capacity **Wagoneer L**

Standard — 2/3/3 (including 2nd row bench)

Optional — 2/2/3 (including captain’s chairs)

**Grand Wagoneer L**

Standard — 2/2/3 (including captain’s chairs)

Optional — 2/3/3 (including 2nd row bench)

SAE Total Interior Passenger Volume,  
(cu. ft. / cu. m) 179.3 (5.1) Wagoneer L / 172.8 (4.9) Grand Wagoneer L

Front

Headroom 41.3 (1049) Wagoneer L / 39.3 (998) Grand Wagoneer L

Legroom 40.9 (1040)

Shoulder room 66.1 (1680)

Hip room 63.4 (1610)

Seat travel 8.1 (207)

EPA front volume index (cu. ft. / cu. m) 64.7 (1.8) Wagoneer L / 61.6 (1.7) Grand Wagoneer L

Cargo volume behind first-row seats  
(cu. ft. / cu. m) 130.9 (3.7) Wagoneer L / 112.9 (3.2) Grand Wagoneer L

2nd Row

Headroom 40.0 (1016) Wagoneer L / 38.4 (975) Grand Wagoneer L

Legroom 42.7 (1085)

Knee clearance 6.7 (170) Wagoneer L / 5.6 (143) Grand Wagoneer L

### ACCOMMODATIONS (CONTINUED)

Shoulder room 65.2 (1657)

Hip room 63.0 (1599)

EPA 2nd row seat volume index  
(cu. ft. / cu. m) 64.5 (1.8) Wagoneer L / 61.9 (1.8) Grand Wagoneer L

Cargo volume behind second-row seats  
(cu. ft. / cu. m) 85.3 (2.4) Wagoneer L / 88.8 (2.5) Grand Wagoneer L

3rd Row

Headroom 39.1 (992) Wagoneer L / 38.5 (977) Grand Wagoneer L

Legroom 36.6 (930)

Knee clearance 1.9 / 47

Shoulder room 64.4 (1635)

Hip room 51.6 (1310)

EPA 3rd row seat volume index  
(cu. ft. / cu. m) 50.1 (1.4) Wagoneer L / 49.3 (1.4) Grand Wagoneer L

Cargo volume behind third-row seats  
(cu. ft. / cu. m) 42.1 (1.2) Wagoneer L / 44.2 (1.3) Grand Wagoneer L

Total passenger plus cargo volume  
(cu. ft. / cu. m) 221.4 (6.3) Wagoneer L / 217.0 (6.1) Grand Wagoneer L

### WEIGHTS (Estimates)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHEEL BASE | DRIVE SYSTEM | MODEL | ENGINE | GVWR  lbs. (kg) | CURB WEIGHT(B) | PAYLOAD lbs. (kg)(C) | WEIGHT DISTRIBUTION, F/R |
| 130 in. | 2WD | Wagoneer L | 3.0L | 7400 | 6069 | 1410 | 51/49 |
|  |  | Wagoneer L Series II | 3.0L | 7400 | 6068 | 1410 | 51/49 |
|  |  | Wagoneer L Series III | 3.0L | 7500 | 6107 | 1470 | 51/49 |
|  | 4WD | Wagoneer L | 3.0L | 7700 | 6297 | 1500 | 52/48 |
|  |  | Wagoneer L Series II | 3.0L | 7600 | 6326 | 1360 | 52/48 |
|  |  | Wagoneer L Series III | 3.0L | 7800 | 6335 | 1550 | 52/48 |
|  |  | Grand Wagoneer L | 3.0L 510 | 7950 | 6621 | 1420 | 51/49 |
|  |  | Grand Wagoneer L Series II | 3.0L 510 | 7950 | 6685 | 1350 | 51/49 |
|  |  | Grand Wagoneer L Series III | 3.0L 510 | 7950 | 6704 | 1330 | 51/49 |

(b) Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant.  
(c) Payload is the maximum allowable weight of driver, passengers, cargo, and options, rounded to the nearest 10 lbs. (5kg).

### Wheels

Availability Standard on Wagoneer L

Type and Material Fully Painted Satin Carbon Finish, six spoke

Size 18 x 8

Availability Optional on Wagoneer L

Type and Material Machined cast aluminum with Black Noise painted pockets, six spoke

Size 20 x 9

Availability Standard on Wagoneer L Series II

Type and material Machined cast aluminum with Black Noise painted pockets, six spoke

Size 20 x 9

Availability Standard on Wagoneer L Series III

Type and material Machined cast aluminum with Satin granite crystal pockets, six spoke

Size 20 x 9

Availability Standard on Grand Wagoneer L

Type and material Machined cast aluminum with Baltic Gray painted pockets

Size 20 x 9

Availability Standard on Grand Wagoneer L Series II, optional on   
Grand Wagoneer L

Type and material Polished aluminum with Luster Gray painted pockets

Size 22 x 9

Availability Standard on Grand Wagoneer L Series III

Type and material Polished aluminum with Lights Out painted pockets

Size 22 x 9

Availability Optional on Wagoneer L Series II, optional on Wagoneer L Series III

Type and material Polished aluminum with Black Noise painted pockets

Size 22 x 9

Availability Optional on Grand Wagoneer L Series II

Type and material Painted cast aluminum Satin Carbon with chrome inserts

Size 22 x 9

Availability Optional on Grand Wagoneer L Series III

Type and material Machined cast aluminum with Black Noise painted pockets and brushed nano steel inserts

Size 22 x 9

Availability Optional with Off-road Package

Type and material Machined cast aluminum with Black Noise painted pockets

Size 18 x 8

### Wheels (CONTINUED)

Availability Standard Carbide

Type and material Cast aluminum fully painted with Gloss black

Size (in.) 20 x 9

Availability Optional Carbide

Type and material Cast aluminum fully painted with Gloss Black

Size (in.) 22 x 9

Availability Standard Obsidian

Type and material Fully painted with Gloss Black smooth inserts

Size (in.) 22 x 9

### TIRES

Availability Standard — Wagoneer L

Size and type 275/65R18

Mfr. And model Bridgestone Dueler H/T All Season

Revs per mile 653

Availability Standard — Wagoneer L Series II, Wagoneer L Series III

Size and type 275/55R20

Mfr. And model Nexen Roadian HTX RH5 All Season

Revs per mile 656

Availability Standard – Grand Wagoneer L; Packaged – HD Trailer Tow,   
Premium Group I

Size and type 275/55R20

Mfr. And model Bridgestone Dueler H/L Alenza All Season

Revs per mile 655

Availability Standard — Grand Wagoneer L Series II, Grand Wagoneer L Series III;   
Packaged — Premium Group I

Size and type 285/45R22XL

Mfr. and model Goodyear Eagle Touring All Season/Performance

Revs per mile 639

Availability Packaged — Advanced All Terrain Group

Size and type 275/65R18

Mfr. and model Firestone Destination AT2 All Terrain

Revs per mile 651

### TIRES (CONTINUED)

Parking Brake Type Electric power steering (standard)

Four-wheel Anti-lock Brakes Standard

Electronic Stability Control Standard

All-speed Traction Control Standard

Brake Assist Standard

### TRAILER TOWING

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WHEELBASE | DRIVE SYTEM | ENGINE | AXLE RATIO | MAXIMUM TRAILER WEIGHT lbs. |
| 130 in. | 2WD | 3.0L | 3.92 | 10,000 |
|  | 4WD | 3.0L | 3.92 | 9,850 |
|  |  | 3.0L 510 | 3.92 | 9,450 |

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