

## 2016 Jeep Grand Cherokee - Capacities and Recommended Fluids

### ENGINE

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
<b>Cooling System</b>					
◆ Engine Coolant (3.0L Diesel Engines)	We recommend you use MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology).	12.0 Quarts	11.4 Liters	68163848AB	68163848GB
◆ Engine Coolant (3.0L/3.6L Gas Engines)	We recommend you use MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology).	10.4 Quarts	9.9 Liters	68163848AB	68163848GB
◆ Engine Coolant (5.7L Engines without Trailer Tow Package)	We recommend you use MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology).	15.4 Quarts	14.6 Liters	68163848AB	68163848GB
◆ Engine Coolant (5.7L Engines with Trailer Tow Package)	We recommend you use MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology).	16.0 Quarts	15.2 Liters	68163848AB	68163848GB
◆ Engine Coolant (6.4L Engines)	We recommend you use MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) that meets the requirements of Material Standard MS.90032.	16.0 Quarts	15.2 Liters	68163848AB	68163848GB
<b>Engine Oil with Filter</b>					
Engine Oil (3.0L Diesel Engine)	We recommend you use 5W-40 synthetic engine oil such as MOPAR or Shell Rotella that meets FCA Material Standard MS-10902 and the API CJ-4 engine oil category is required.	8 Quarts	7.7 Liters	68001332PB	68231021GB
◆◆ Engine Oil (3.0L/3.6L Gas Engine- Domestic/Non-ACEA)	We recommend you use API Certified SAE 0W-20 Engine Oil, meeting the requirements of Material Standard MS-6395 such as MOPAR, Pennzoil, and Shell Helix. Refer to your engine oil filler cap for correct SAE grade.	6 Quarts	5.6 Liters	68218950AB	68218950GA
◆◆ Engine Oil (3.0L/3.6L Gas Engine- ACEA Categories)	We recommend you use API Certified SAE 0W-20 engine oil, meeting the requirements of Material Standard MS-6395 or 9.55535-CR1. Refer to your engine oil filler cap for the correct SAE grade.	6 Quarts	5.6 Liters	68218950AB	68218950GA

Description	Type	Capacities		Part Number	Global Part Number
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◆◆◆ Engine Oil (5.7L Engine - Domestic/Non-ACEA)	We recommend you use API Certified SAE 5W-20 Engine Oil, meeting the requirements of Material Standard MS-6395 such as MOPAR, Pennzoil, and Shell Helix. Refer to your engine oil filler cap for correct SAE grade.	7 Quarts	6.6 Liters	68218890AB	68218890GB
◆◆◆ Engine Oil (5.7L Engine - ACEA Categories)	We recommend you use API Certified SAE 5W-20 engine oil, meeting the requirements of Material Standard MS-6395 or 9.55535-CR1. Refer to your engine oil filler cap for the correct SAE grade.	7 Quarts	6.6 Liters	68218890AB	68218890GB
Engine Oil (6.4L Engine) Domestic and Export	For best performance and maximum protection under all types of operating conditions, the manufacturer only recommends full synthetic engine oils that meet the American Petroleum Institute (API) categories of SN. The manufacturer recommends the use of Pennzoil Ultra 0W-40 or equivalent MOPAR engine oil meeting the requirements of Material Standard MS-12633 for use in all operating temperatures.	7 Quarts	6.6 Liters	68171066PB	68171066GA
Engine Oil Filter (3.0L Diesel Engine)	We recommend you use MOPAR Engine Oil Filter or equivalent.	N/A	N/A	—	—
Engine Oil Filter (3.0L/3.6L Gas Engine)	We recommend you use MOPAR Engine Oil Filter or equivalent.	N/A	N/A	—	—
Engine Oil Filter (5.7L/6.4L Engine)	We recommend you use MOPAR Engine Oil Filter or equivalent.	N/A	N/A	—	—
Diesel Fuel Filter	We recommend you use MOPAR Fuel Filter. Must meet 3 micron rating. Using a fuel filter that does not meet the manufacturers filtration and water separating requirements can severely impact fuel system life and reliability.	N/A	N/A	—	—
<b>Fuel (approximate)</b>					

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
Fuel Selection (3.0L Diesel Engine)	<p>Use good quality diesel fuel from a reputable supplier in your vehicle. Federal law requires that you must fuel this vehicle with Ultra Low Sulfur Highway Diesel fuel (15 ppm Sulfur maximum) and prohibits the use of Low Sulfur Highway Diesel fuel (500 ppm Sulfur maximum) to avoid damage to the emissions control system. For most year-round service, No. 2 diesel fuel meeting ASTM specification D-975 Grade S15 will provide good performance. We recommend you use a blend of up to 5% biodiesel, meeting ASTM specification D-975 with your diesel engine. This vehicle is compatible with biodiesel blends greater than 5% but no greater than 20% biodiesel meeting ASTM specification D-7467 provided the shortened maintenance intervals are followed as directed.</p> <p><b>NOTE: If the vehicle is exposed to extreme cold (below 20°F or -7°C), or is required to operate at colder-than-normal conditions for prolonged periods, use climatized No. 2 diesel fuel or dilute the No. 2 diesel fuel with 50% No. 1 diesel fuel. This will provide better protection from fuel gelling or wax-plugging of the fuel filters.</b></p>	25 Gallons	94 Liters	—	—
Fuel Selection (3.0L Diesel Engine - Europe)	50 Cetane or higher (Less than 10 ppm Sulfur)	25 Gallons	94 Liters	—	—
Fuel Selection (3.0L/3.6L Gas Engine)	87 Octane, 0-15% Ethanol.	25 Gallons	94 Liters	—	—
Fuel Selection (3.6L Gas Engine - Europe)	Minimum 91 Octane	25 Gallons	94 Liters	—	—
Fuel Selection (3.0L/ 3.6L Gas Engine) Flexible Fuel	Ethanol E85 (ASTM D5798)	25 Gallons	94 Liters	—	—
Fuel Selection (5.7L Engine)	89 Octane Recommended - 87 Octane Acceptable, 0-15% Ethanol.	25 Gallons	94 Liters	—	—

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
Fuel Selection (5.7L Engine - Europe)	Minimum 91 Octane Acceptable - 95 Octane Recommended	25 Gallons	94 Liters	—	—
Fuel Selection (6.4L Engine)	Premium Unleaded 91 Octane Only or Higher, 0-15% Ethanol.	25 Gallons	94 Liters	—	—
Fuel Selection (6.4L Engine – Export)	Research Octane Number (RON) of 98 or higher.	24.6 Gallons	93.0 Liters	—	—
Diesel Exhaust Fluid (DEF)	MOPAR Diesel Exhaust Fluid (API Certified) (DEF) or equivalent that has been API Certified to the ISO 22241 standard. Use of fluids not API Certified to ISO 22241 may result in system damage.	8 Gallons	30.3 Liters	68035704AC	—
<b>A/C Refrigerant System</b>					
A/C Refrigerant	R-134a	1.438 Pounds	652 Grams	68234974AA	82300101GB
A/C Refrigerant	R-1234yf	1.25 Pounds	567 Grams	68234971AC	68224028GA
♦ System fill capacity includes heater and coolant recovery bottle filled to MAX level.					
♦♦ SAE 5W-30 engine oil approved to 9.55535 may be used when SAE 5W-20 engine oil is not available MOPAR® SAE 5W-30 engine oil approved to MS-6395 such as Pennzoil® or Shell Helix® may be used when SAE 5W-20 engine oil meeting MS-6395 is not available.					
♦♦♦ Vehicles equipped with a 5.7L engine must use SAE 5W-20 oil. Failure to do so may result in improper operation of the Fuel Saver Technology.					
<b>CAUTION:</b> Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.					

## SPARK PLUGS

Description	Type	Gap	
		U.S.	Metric
Spark Plugs (3.0L/3.6L Engine)	We recommend you use MOPAR® Spark Plugs.	0.043 in	1.10 mm
Spark Plugs (5.7L Engine)	We recommend you use MOPAR® Spark Plugs.	0.043 in	1.10 mm
Spark Plugs (6.4L Engine)	We recommend you use MOPAR® Spark Plugs.	0.043 in	1.10 mm

## TRANSMISSION

Description	Type	Capacities	Part	Global Part
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Description	Type	Capacities		Number Part Number	Number Global Part Number
		U.S.	Metric		
<b>Automatic</b>					
HP45 – 8 Speed	Use only Mopar® ZF 8&9 Speed ATF™ Automatic Transmission Fluid or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission.	8.98 Quarts	8.5 Liters	68218925AA	68218925GA
HP70 – 8 Speed	Use only Mopar® ZF 8&9 Speed ATF™ Automatic Transmission Fluid or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission.	8.77 Quarts	8.3 Liters	68218925AA	68218925GA
♦ Dry fill capacity. Depending on type and size of internal cooler, length and inside diameter of cooler lines, or use of an auxiliary cooler, these figures may vary. Refer to the appropriate service information for the correct procedures.					
<b>CAUTION: Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.</b>					

### TRANSFER CASE

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
MP2010	We recommend you use Automatic Transmission Fluid 3353.	1.1 Pints	0.51 Liters	05127382AB	05127382GB
MP3010	MOPAR® ATF+4 Automatic Transmission Fluid	1.4 Quarts	1.35 Liters	68218057AA	68218057GB
MP3023	MOPAR® ATF+4 Automatic Transmission Fluid	2.0 Quarts	1.9 Liters	68218057AA	68218057GB
<b>CAUTION: Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.</b>					

### CHASSIS

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
<b>Axles (Front)</b>					
195FIA FE - Front Axle	We recommend you use MOPAR GL-5 Synthetic Axle Lubricant SAE 75W-85.	0.9 Quarts	0.8 Liters	68232947AA	68232947GA
<b>Axles (Rear)</b>					
195RIA - Rear Axle (Aluminum)	We recommend you use MOPAR GL-5 Synthetic Axle Lubricant SAE 75W-85.	1.0 Quarts	0.9 Liters	68232947AA	68232947GA

Description	Type	Capacities		Part Number	Global Part Number
		U.S.	Metric		
230RIA With Electronic Limited-Slip Differential (ELSD)-Rear Axle (Aluminum)	We recommend you use MOPAR GL-5 Synthetic Axle Lubricant SAE 75W-85 with friction modifier additive.	1.4 Quarts	1.3 Liters	68232947AA	68232947GA
230RIA Without Electronic Limited-Slip Differential (ELSD) - Rear Axle (Aluminum)	We recommend you use MOPAR GL-5 Synthetic Axle Lubricant SAE 75W-85.	1.2 Quarts	1.1 Liters	68232947AA	68232947GA
<b>Chassis Systems</b>					
Brake Master Cylinder	We recommend you use MOPAR DOT 3 Brake Fluid, SAE J1703 should be used. If DOT 3, SAE J1703 brake fluid is not available, then DOT 4 is acceptable.	N/A	N/A	68218041AA	68218041GA
◆ Power Steering Reservoir ( <b>Belt Driven Pump</b> )	MOPAR® Power Steering Fluid +4	N/A	N/A	68218064AB	68218064GB
Power Steering Reservoir ( <b>Electric Pump</b> )	MOPAR® Hydraulic Fluid meeting the requirements of Material Standard MS-11655	N/A	N/A	68088485AB	68088485GA
◆ If MOPAR® Power Steering Fluid +4 is not available, then MOPAR® ATF +4 Automatic Transmission Fluid, is acceptable.					
<p><b>CAUTION:</b> There is an Electro-Hydraulic Power Steering (EHPS) pump on some vehicles requiring a different fluid. Do not mix power steering fluid types. Damage may result to the power steering pump and system if any other fluid is used. The mechanical power steering pump systems on this vehicle require the use of Power Steering Fluid +4, which meets material specification MS-9602 or equivalent. The EHPS system uses fluid which meets material specification MS-11655 or equivalent. Do not overfill.</p>					
<p><b>CAUTION:</b> Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.</p>					