

2013 Jeep Grand Cherokee - Capacities and Recommended Fluids

ENGINE

Description	Type	Part Number	Capacities	
			U.S.	Metric
Cooling System				
◆ Engine Coolant (3.0L Diesel Engines)	MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) meeting the requirements of Chrysler Material Standard MS-12106	1 Gallon - 68163848AA (concentrate) 68163849AA (50/50)	14.0 Quarts	13.2 Liters
◆ Engine Coolant (3.6L Engines)	MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) meeting the requirements of Chrysler Material Standard MS-12106	1 Gallon - 68163848AA (concentrate) 68163849AA (50/50)	10.4 Quarts	9.9 Liters
◆ Engine Coolant (5.7L Engines)	MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) meeting the requirements of Chrysler Material Standard MS-12106	1 Gallon - 68163848AA (concentrate) 68163849AA (50/50)	15.4 Quarts	14.6 Liters
◆ Engine Coolant (5.7L Engines with Trailer Tow Package)	MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) meeting the requirements of Chrysler Material Standard MS-12106	1 Gallon - 68163848AA (concentrate) 68163849AA (50/50)	16.0 Quarts	15.2 Liters
◆ Engine Coolant (6.4L Engines with Trailer Tow Package)	MOPAR® Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology) meeting the requirements of Chrysler Material Standard MS-12106	1 Gallon - 68163848AA (concentrate) 68163849AA (50/50)	16.0 Quarts	15.5 Liters
Engine Oil with Filter				
Engine Oil (3.0L Diesel Engine)	Only use ACEA C3 5W-30 Synthetic Low Ash engine oil meeting FCA Material Standard MS-11106 or Pennzoil Ultra Euro L full synthetic 5W-30 motor oil.	1 Quart - 68231014GA	8 Quarts	7.7 Liters
Engine Oil (3.6L Engine-Domestic/Non-ACEA)	MOPAR® API Certified SAE 5W-20 engine oil, meeting the requirements of Chrysler Group LLC Material Standard MS-6395.	1 Quart - 04761872PA	6 Quarts	5.6 Liters
		5 Quarts - 04761851PA		

Description	Type	Part Number	Capacities	
			U.S.	Metric
♦♦ Engine Oil (3.6L Engine-ACEA Categories)	For countries that use the ACEA European Oil Categories for Service Fill Oils, we recommend you use engine oils meeting the requirements of ACEA C3, and approved to Fiat 9.5535.	-	6 Quarts	5.6 Liters
♦♦ Engine Oil (5.7L Engine - Domestic/Non-ACEA)	MOPAR® API Certified SAE 5W-20 engine oil, meeting the requirements of Chrysler Group LLC Material Standard MS-6395.	1 Quart - 04761872PA	7 Quarts	6.6 Liters
		5 Quarts - 04761851PA		
♦♦ Engine Oil (5.7L Engine - ACEA Categories)	For countries that use the ACEA European Oil Categories for Service Fill Oils, we recommend you use engine oils meeting the requirements of ACEA C3, and approved to Fiat 9.5535.	-	7 Quarts	6.6 Liters
Engine Oil (6.4L Engine) Domestic and Export	MOPAR® API Certified SAE Full Synthetic engine oil 0W-40, meeting the requirements of Chrysler Group LLC Material Standard MS-10725.	1 Quart - 68171066PA	7 Quarts	6.6 Liters
Engine Oil Filter (3.0L Diesel Engine)	MOPAR® Engine Oil Filter Kit	68109834AA	N/A	N/A
Engine Oil Filter (3.6L Engine)	MOPAR® Engine Oil Filter Kit	68079744AA	N/A	N/A
Engine Oil Filter (5.7L/6.4L Engine)	MOPAR® Engine Oil Filter	04884899AB	N/A	N/A
Fuel (approximate)				
Fuel Selection (3.0L Diesel Engine)	Use good quality diesel fuel from a reputable supplier in your vehicle. The manufacturer 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. If the vehicle is exposed to extreme cold (below 20F or -7C), 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. This vehicle is fully compatible with biodiesel blends up to 5% biodiesel meeting ASTM specification D-975.	N/A	24 Gallons	91 Liters
Fuel Selection (3.6L Engine)	87 Octane	N/A	24 Gallons	91 Liters
Fuel Selection (3.6L Engine) Flexible Fuel	Ethanol E85 (ASTM D5798)	N/A	24 Gallons	91 Liters

Description	Type	Part Number	Capacities	
			U.S.	Metric
Fuel Selection (5.7L Engine)	87 Octane Acceptable - 89 Octane Recommended	N/A	24 Gallons	91 Liters
Fuel Selection (6.4L Engine)	91 Octane Only or higher	N/A	24 Gallons	91 Liters
A/C Refrigerant System				
A/C Refrigerant	R-134a	82300101AB	1.375 Pounds	623.7 Grams
♦ System fill capacity includes heater and coolant recovery bottle filled to MAX level.				
♦♦ SAE 5W-30 engine oil approved to Fiat 9.55535 may be used when SAE 5W-20 engine oil is not available				
CAUTION: 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	Part Number	Gap	
			U.S.	Metric
Spark Plugs (3.6L Engine)	Champion®	SP149125AD (RER8ZWYCB4)	0.043 in	1.10 mm
Spark Plugs (5.7L Engine)	NGK® Yttrium	05149177AB (LZFR5C-11G)	0.043 in	1.10 mm
Spark Plugs (6.4L Engine)	NGK® Single Platinum	05149212AC (LZTR6AP11EG)	0.043 in	1.10 mm

TRANSMISSION

Description	Type	Part Number	Capacities	
			U.S.	Metric
Automatic				
65RFE - Service Fill	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	4X2 - 5.5 Quarts	4X2 - 5.2 Liters
		1 Gallon - 05013458AA		
		1 Quart - 05013457AA	4X4 - 6.5 Quarts	4X4 - 6.2 Liters
		1 Gallon - 05013458AA		
♦ 65RFE - Overhaul Fill	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	4X2 - 13.3 Quarts	4X2 - 12.6 Liters

Description	Type	Part Number	Capacities	
			U.S.	Metric
		1 Gallon - 05013458AA		
		1 Quart - 05013457AA	4X4 - 13.3 Quarts	4X4 - 12.6 Liters
		1 Gallon - 05013458AA		
NAG 1 - Service Fill	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	5.3 Quarts	5.0 Liters
		1 Gallon - 05013458AA		
◆ NAG 1 - Overhaul Fill	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	8.1 Quarts	7.7 Liters
		1 Gallon - 05013458AA		
◆ 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.				
CAUTION: Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.				

TRANSFER CASE

Description	Type	Part Number	Capacities	
			U.S.	Metric
MP2010	Use ATF approved to MB 236.10, MB 236.12, such as Shell ATF 3403/M-115, Fuchs/Shell ATF 3353, or equivalent.	1 Quart - 05127382AA	1.1 Pints	0.51 Liters
MP3010	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	1.4 Quarts	1.35 Liters
		1 Gallon - 05013458AA		
MP3023	MOPAR® ATF+4 Automatic Transmission Fluid	1 Quart - 05013457AA	2.0 Quarts	1.9 Liters
		1 Gallon - 05013458AA		
CAUTION: Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.				

CHASSIS

Description	Type	Part Number	Capacities	
			U.S.	Metric
Axles (Front)				
195FIA FE - Front Axle	Mopar® Gear and Axle Lubricant 75W-85	1 Quart - 05136035AA	0.9 Quarts	0.8 Liters
Axles (Rear)				
195RIA - Rear Axle (Aluminum)	Mopar® Gear and Axle Lubricant 75W-85	1 Quart - 05136035AA	1.0 Quarts	0.9 Liters
230RIA With ELSD -Rear Axle (Aluminum)	Mopar® Gear and Axle Lubricant with Modifier 75W-85	1 Quart - 68083381AA	1.4 Quarts	1.3 Liters
230RIA Without ELSD - Rear Axle (Aluminum)	Mopar® Gear and Axle Lubricant 75W-85	1 Quart - 05136035AA	1.2 Quarts	1.1 Liters
Chassis Systems				
◆ Brake Master Cylinder	MOPAR® Brake Fluid DOT 3, SAE J1703.	12 oz. Bottle - 04318080AB	N/A	N/A
		32 oz. Bottle - 04318081AB		
◆◆ Power Steering Reservoir (Belt Driven Pump)	MOPAR® Power Steering Fluid +4	1 Pint - 05166226AA	N/A	N/A
◆◆◆ Power Steering Reservoir (Electric Pump)	MOPAR® Hydraulic Fluid meeting the requirements of Chrysler Material Standard MS- 11655	68088485AA or 05127381AB	N/A	N/A
◆ If MOPAR® Brake Fluid DOT 3 is not available, then MOPAR® Brake and Clutch Fluid DOT 4 (04549625AC), is acceptable.				
◆◆ If MOPAR® Power Steering Fluid +4 is not available, then MOPAR® ATF +4 Automatic Transmission Fluid (05013457AA), is acceptable.				
CAUTION: 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.				
CAUTION: Nominal refill capacities are shown. A variation may be observed from vehicle to vehicle due to manufacturing tolerance and refill procedure.				