

2005 Porsche Cayenne Base - V6 - 3.2L 3189cc 195ci GAS MFI v1m A - DOHC

Engine oil viscosity recommendations

Temperature	Viscosity	Notes
All TEMPS F / All TEMPS C	5W-30	-

Engine oil capacity

Type	Capacity	Including Filter	Notes
-	6.66 Q / 6.3 L	Yes	A drain down time of 20 minutes is required to obtain accurate level. Oil capacity listed in owners manual may differ from listed amount. In such case's use amount listed in owners manual

Engine oil API grade recommendations

Recommended Grade	Lubricant Description	OE Part No/Spec	Notes
SEO42	Porsche C30 or VW 504 00	-	-

Oil drain plug torque

Qualifier	Engine oil drain plug torque (ft-lbs)	Notes
-	22	-

Lubricant recommendations

Qualifier	Item	Lubricant	Description	OE Part No /Spec	Notes
Triptronic S	Automatic transmission/transaxle	TIV	JWS 3309 Automatic Transmission Fluid	-	Esso JWS 3309, Porsche P/N 000 043 205 28.
-	Brake system	HBH	Hydraulic Brake Fluid, DOT 4	-	Hydraulic Brake Fluid, DOT 4, TYPE 200
-	Clutch	HBH	Hydraulic Brake Fluid, DOT 4	-	Hydraulic Brake Fluid, DOT 4, TYPE 200
-	Cooling system	OAT	Organic Acid Technology based coolant	Porsche lifetime coolant or an equivalent.	-
-	Engine	SEO42	Porsche C30 or VW 504 00	-	-
Limited Slip Differential	Front differential	GLS11	Burmah SAF Carbon Mod, Porsche P/N 000 043 300 37	-	-
Standard	Front differential	GLS12	Burmah SAF-AG4, Porsche P/N 000 043 205 30	-	-

Location	Unit	Type	Grade	Temp Range	Recommended Viscosity	Lubrication Description	OE Part No./Spec	Notes
Front	-	-	GLS11	All TEMPS F / All TEMPS C	-	-	-	-

Differential Lubricant recommendations

Location	Unit	Fluid Capacity	Name	Notes
Front	-	1.06 Q / 1.0 L	Final Drive	-
Rear	With Locking Differential With Manual Transmission	1.69 Q / 1.6 L	Differential	-
Rear	Without Locking Differential W/MT	1.32 Q / 1.25 L	Differential	-

Differential capacities

Sub-model	Capacity	Notes
-	19.0 qt / 18.0 L	Coolant capacity 18.0-21.0 liters 19.02-22.19 Quarts.

Cooling system capacity

Unit	Procedure
S Tiptronic	The vehicle must be level to check fluid level. Move selector lever to position "N" and allow the vehicle to idle. Remove the inspection plug when fluid temperature reaches 40°C (104°F). The fluid level is correct when fluid emerges at the lifting tube. If no fluid emerges, add fluid. Screw in oil inspection plug. Move selector lever to position "P" and turn off engine.

Transmission fluid level check

Manual transmission/transaxle	Power steering system	With Locking Differential With Manual Transmission - Limited Slip Differential	Without Locking Differential W/MT - Limited Slip Differential	Without Locking Differential W/MT - Standard	Unknown Transfer Case
GLS59 Porsche P/N 000 043 300 38	PS005 Pentosin CHF 202	GLS11 Burmah SAF Carbon Mod, Porsche P/N 000 043 300 37	GLS11 Burmah SAF Carbon Mod, Porsche P/N 000 043 300 37	GLS12 Burmah SAF-AG4, Porsche P/N 000 043 205 30	AE Esso Type LT 71141 Automatic Transmission Fluid
-	-	-	-	-	The factory fill is blue in color. The AF for topping off/adjusting or changing is red in color part No 999917 547 00 (a2) or P/N 000 043 205 09 (20 liter container)
-	Original recommendation of Pentosin CHF 11S has been superseded with Pentosin CHF 202	-	-	-	-

Qualifier	Item	Action
-	Air bag system	• Inspect 2nd 96 months.
-	Air bag system	• Inspect 1st 48 months.

Preventive maintenance schedule

Qualifier	Grade	Temp Range	Recommended Viscosity	Lubricant Description	OE Part No /Spec	Notes
N/A (6-SPD)	GLS59	All TEMPS F / All TEMPS C	-	Porsche P/N 000 043 300	38	-

Manual transmission lubricant recommendations

Type	Fill Plug Torque (ft-lbs)	Drain Plug Torque (ft-lbs)	Notes
-	26	26	-

Manual transmission fill and drain plug torque

Type	Capacity	Notes
-	26 GAL / 104.1 Q / 98.5 L	-

Fuel tank capacity

Type	Final Drive Fill Torque (ft-lbs)	Final Drive Drain Torque (ft-lbs)	Notes
-	26	26	Oil filler and drain plugs with sealing ring; replace sealing ring.

Final drive fill and drain plug torque

Location	Configuration	Standard	GLS11	GLS12	Notes
Front	-	Standard	GLS12 / All TEMPS F / All TEMPS C	-	-
Rear	Without Locking Differential W/MT	-	GLS11 / All TEMPS F / All TEMPS C	-	-
Rear	Without Locking Differential W/MT	Standard	GLS12 / All TEMPS F / All TEMPS C	-	-
Rear	With Locking Differential With Manual Transmission	-	GLS11 / All TEMPS F / All TEMPS C	-	-

Air bag system	-	• Inspect after initial service, every 24 months.
Air filter element	-	• Replace every 4000mi (64000km).
Automatic transmission/transaxle	-	• Change fluid and filter/screen every 144 months or 120000mi (193000km).
Brake rotors	-	• Inspect 1st 24 months or 20000mi (32000km).
Brake rotors	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Brake Friction Material	-	• Inspect 1st 24 months or 20000mi (32000km).
Brake Friction Material	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Brake lines & hoses	-	• Inspect 1st 24 months or 20000mi (32000km).
Brake lines & hoses	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Brake system	-	• Change fluid every 24 months.
Clutch	-	• Inspect every 40000mi (64000km).
Crankcase	-	• Change fluid every 20000mi (32000km).
Cooling system	-	• Inspect every 20000mi (32000km). • Organic Acid Technology based coolant
Constant Velocity Joint Boots	-	• Inspect every 40000mi (64000km).
Drive Belt(s)	-	• Inspect 1st 48 months or 40000mi (64000km). • Replace if necessary.
Drive Belt(s)	-	• Inspect 2nd 120 months or 100000mi (160000km). • Replace if necessary.
Drive Belt(s)	-	• Inspect after initial service, every 72 months or 60000mi (96000km). • Replace if necessary.
Drive Belt(s)	-	• Replace every 72 months or 60000mi (96000km).

Driveshaft(s)	-	• Inspect every 4000mi (6400km).
Driveshaft Universal Joint(s)	-	• Inspect 1st 24 months or 20000mi (32000km).
Driveshaft Universal Joint(s)	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Exhaust system	-	• Inspect every 4000mi (6400km).
Exterior Lighting	-	• Inspect 1st 24 months or 20000mi (32000km).
Exterior Lighting	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Front differential	-	• Change fluid every 192 months or 14400mi (24000km).
Front differential	-	Severe Service • Change fluid.
Fuel system	-	• Inspect every 4000mi (6400km).
Headlamp Washers	-	• Inspect fluid level 1st 24 months or 20000mi (32000km).
Headlamp Washers	-	• Inspect fluid level after initial service, every 48 months or 40000mi (64000km).
Lock cylinders	-	• Lubricate 1st 24 months or 20000mi (32000km).
Lock cylinders	-	• Lubricate after initial service, every 48 months or 40000mi (64000km).
Manual transmission/transaxle	-	• Change fluid every 144 months or 120000mi (193000km).
Crankcase Oil Filter	-	• Replace every 20000mi (32000km).
Rear differential	-	• Change fluid.
Steering gearbox	-	• Inspect every 20000mi (32000km).
Steering linkage	-	• Inspect 1st 24 months or 20000mi (32000km).
Steering linkage	-	• Inspect after initial service, every 48 months or 40000mi (64000km).
Spark plugs	-	• Replace every 48 months or 60000mi (96000km).

Severe service fluid change intervals

Suspension	-	-	<ul style="list-style-type: none"> • Torque every 4000mi (6400km).
Tire pressure monitoring system battery	-	-	<ul style="list-style-type: none"> • Inspect 1st 48 months. • The remaining service life of the battery can be read with the Porsche System Tester. Replace the wheel electronics if the remaining service life of the wheel electronics is shorter than that of the tire. • Battery for the wheel electronics cannot be replaced separately. • Replace if necessary.
Tire pressure monitoring system battery	-	-	<ul style="list-style-type: none"> • Inspect after initial service, every 24 months. • The remaining service life of the battery can be read with the Porsche System Tester. Replace the wheel electronics if the remaining service life of the wheel electronics is shorter than that of the tire. • Battery for the wheel electronics cannot be replaced separately. • Replace if necessary.
Transfer case	-	-	<ul style="list-style-type: none"> • Change fluid.
Tire Repair Kit Sealant	-	-	<ul style="list-style-type: none"> • Replace every 48 months.
Underbody	-	-	<ul style="list-style-type: none"> • Inspect 1st 24 months or 20000mi (32000km). • Check for leaks and damage.
Underbody	-	-	<ul style="list-style-type: none"> • Inspect after initial service, every 48 months or 40000mi (64000km). • Check for leaks and damage.
Wheels & tires	-	-	<ul style="list-style-type: none"> • Inspect 1st 24 months or 20000mi (32000km). • Check tread wear and inflation pressure, including spare.
Wheels & tires	-	-	<ul style="list-style-type: none"> • Inspect after initial service, every 48 months or 40000mi (64000km). • Check tread wear and inflation pressure, including spare.
Windshield Washer	-	-	<ul style="list-style-type: none"> • Inspect fluid level 1st 24 months or 20000mi (32000km).
Windshield Washer	-	-	<ul style="list-style-type: none"> • Inspect fluid level after initial service, every 48 months or 40000mi (64000km).
All-Wheel Drive Only	-	-	<ul style="list-style-type: none"> • Change fluid every 144 months or 120000mi (193000km).
Cabriolet Only	-	-	<ul style="list-style-type: none"> • Rollover protection system • Inspect every 24 months.
Particle filter	-	-	<ul style="list-style-type: none"> • Replace 1st 24 months or 20000mi (32000km).
Particle filter	-	-	<ul style="list-style-type: none"> • Replace after initial service, every 24 months or 40000mi (64000km).
With Automatic Transmission	-	-	<ul style="list-style-type: none"> • Change fluid every 144 months or 120000mi (193000km).

Qualifier	Lube Description	OE Part No	Service	Notes
Engine Oil	-	-	CHG Oil and Filter more frequently than EV 12 MO or 10,000 MI/16,000 km.	-
Brake system	Hydraulic Brake Fluid, DOT 4	-	CHG fluid EV 24 MO	Hydraulic Brake Fluid, DOT 4, TYPE 200

Transfer case capacity

Unit	Capacity	Notes
Unknown Transfer Case	0.74 Q / 0.7 L	-

Transfer case fill and drain plug torque

Type	Fill Plug Torque (ft-lbs)	Drain Plug Torque (ft-lbs)	Notes
-	15	15	-

Transfer case lubricant recommendations

Qualifier	Grade	Temp Range	Recommended Viscosity	Lubricant Description	OE Part No /Spec	Notes
Unknown Transfer Case	AE	- F / - C	-	Esso Type LT 71141 Automatic Transmission Fluid	-	The factory fill is blue in color. The AE for topping off/ adjusting or changing is red in color part No 999917 547 00 (a2) or P/N 000 043 205 09 (20 liter container)

AT Total Fill Capacity

Qualifier	Number of Ranges (Speeds)	Transmission Model	Capacity (Quarts/Liters)
-> 09D300036	6	TRIPTRONS	9.51 Q / 9.0 L
09D300037 ->	6	TRIPTRONS	10.67 Q / 10.1 L

AT Lubricant Recommendations

Unit	Fluid	Description	OE Part No Spec	Notes
Triptronic S	TIV	JWS 3309 Automatic Transmission Fluid	Porsche P/N 000 043 205 28	-

AT Filter Service Fill

Unit	Capacity	Reference	Name	Notes
Triptronic S	8.98 Q / 8.5 L	Filter Service	Transmission	Transmissions up to: 09D300036D, 09D300036G, 09D300036H
Triptronic S	10.14 Q / 9.6 L	Filter Service	Transmission	Transmissions from: 09D300037D, 09D300037G, 09D300037H

A/C Specifications

Refrigerant Capacity and Type

Capacity	Refrigerant
1049 g / 37 oz[1-1]	134A

Oil Type	-
Oil Viscosity	-

Compressor Oil Type and ISO Viscosity

Total System Oil Capacity	6.8 to 6.8 oz / 201 to 201 ml
Accumulator Replacement Oil Capacity	-
Compressor Replacement Oil Capacity	4.05 oz / 120 ml
Condenser Replacement Oil Capacity	-
Evaporator Replacement Oil Capacity	-
Hose Line Replacement Oil Capacity	-
Receiver Drier Replacement Oil Capacity	-

Capacity	- [1-2]
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Compressor Clutch Air Gap

Gap/Clearance	in / mm
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[1-1]Dual AC

[1-2]Add same amount of oil drained from old component to new component.

A/C refrigerant capacity

Qualifier	Without Rear Air Conditioning	24 oz / 0.7 kg	134A
Qualifier	With Rear Air Conditioning	37 oz / 1.0 kg	134A

Power steering, brake, & clutch fluid recommendations

Qualifier	Power Steering Fluid	Power Steering Fluid	Power Steering Fluid	Power Steering Fluid	Power Steering Fluid	Brake Fluid	Brake Fluid	Brake Fluid	Brake Fluid	Clutch Fluid	Clutch Fluid	Clutch Fluid	Clutch Fluid
	Description	OE Part No Spec	Notes	Fluid	Fluid	Description	OE Part No Spec	Notes	Fluid	Description	OE Part No Spec	Notes	Fluid

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1) What type of fleet does your firm operate? (if not a fleet, skip to question 1b)
 a Contract/Common Carrier b Lease/Rental c Bus Transportation

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e Food Production/Processing f Construction/Mining/Logging
 g Petroleum Production/Marketing h Utility
 i Manufacturing/Processing j Retail/Wholesale
 k Government l Other Private Fleets (please specify) _____

1b) If not a fleet, what best describes your basic business as it relates to a truck and/or bus fleet?
 m Vehicle Dealer of trucks, tractors, trailers, buses, etc.
 n Wholesaler of components, parts, supplies or equipment
 o Independent Fleet Service/Repair Specialist
 p Others (please specify) _____

2) What is the total number of vehicles or pieces of equipment based or controlled from this location (including straight trucks, truck tractors, trailers, buses & off-road vehicles)?
 a 1-4 b 5-9 c 10-24 d 25-49 e 50-99 f 100-299 g 300-499 h 500-799 i 800-999 j 1,000 or more

3) Does your fleet include the following vehicles?
 (a) Class 1 and/or 2 (light duty - under 10,000 GVW)
 (b) Class 3, 4 and/or 5 (10,001/19,500 GVW)
 (c) Class 6 (medium duty - 19,501/26,000 GVW)
 (d) Class 7 (heavy duty - 26,001/33,000 GVW)
 (e) Class 8 (heavy duty - over 33,000 GVW)
 (f) Diesel Powered Vehicles

Yes No
 Yes No
 Yes No
 Yes No
 Yes No
 Yes No

• Are you involved in the purchasing or specifying of Trucks, Trailers, Buses, and/or components? Yes No
 • Are you involved in the purchasing or specifying of replacement parts, supplies, shop equipment used for maintenance and repair? Yes No
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 • Does your company operate a fleet maintenance facility at this location? Yes No

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Number of lubrication fittings & plugs

Qualifier	No. of Fittings	No. of Plugs	Lubricant Description	OE Part No /Spec	Notes
-	0	0	-	-	-

Manual transmission/transaxle capacities

Unit	Capacity	Name	Notes
N/A (6-SPD)	1.90 Q / 1.8 L	Transmission	-

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