



Factory Approved Service Products June 2002



Mercedes-Benz USA recommends the use of Mercedes-Benz original parts, replacement parts, accessories as well as factory approved service products explicitly approved by us for your vehicle model.

We have subjected these parts, accessories and service products to special tests in which their reliability, safety and their special suitability for Mercedes-Benz vehicles have been verified.

Mercedes-Benz original parts, replacement parts, accessories and factory approved service products approved by us are available at your authorized Mercedes-Benz Center.

Approved Engine Oils

For Vehicles Without Flexible Service System (FSS or FSS PLUS)

IMPORTANT: Engine oils are labeled on the container with various ACEA (Association des Constructeurs Européens d'Automobiles) and/or API (American Petroleum Institute) designations of quality. Mercedes-Benz recommends the use of MB approved engine oils listed in the Mercedes-Benz oil specification sheet 229.1 or 229.3 which also meet ACEA and/or API classifications

listed on the chart below. If a MB approved or ACEA quality engine oil is not available, then an API quality engine oil meeting the below listed API classification can be used. Only engine oils (including synthetic) with any of the following classification grades, or combinations thereof, are approved.

Always refer to the viscosity chart for the proper viscosity grade based on ambient temperature. Note: This chart supersedes ALL previously published viscosity charts. For additional information please refer to the Operator's Manual.

Engine	MB Sheet	ACEA Classification ¹⁾	API Classification ¹⁾
Gasoline	229.1 229.3	A3 B3	SH SJ
Diesel	229.1 229.3	B2 B3 B4	CF-4 CG-4

¹⁾ only if MB sheet 229.1 or 229.3 is not available

For Vehicles With Flexible Service System (FSS or FSS PLUS)

Mercedes-Benz recommends only the use of MB approved synthetic motor oil for all vehicles equipped with the Flexible Service System (FSS or FSS PLUS) as of Model Year 1998. Conventional petroleum based oils may not be used for vehicles equipped with the Flexible Service System but may

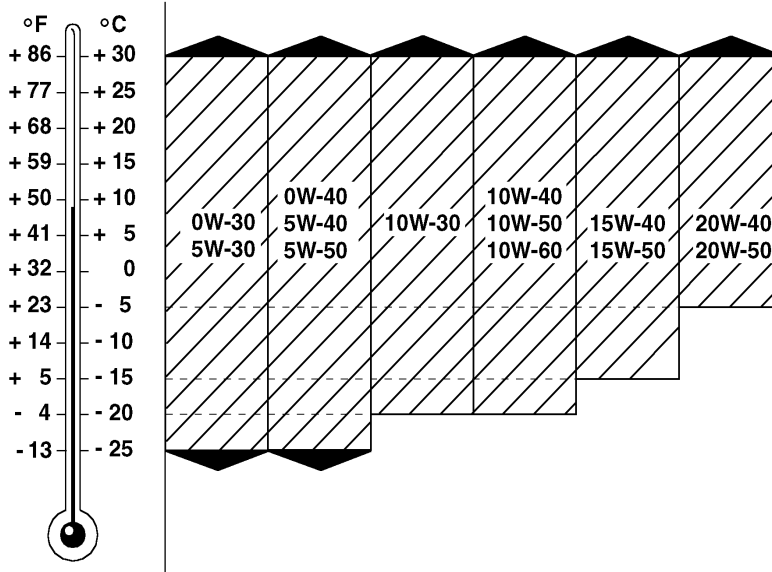
be used on older vehicles. If the engine oil used does not meet the above mentioned standard, engine damage is possible, which is not covered by the Mercedes-Benz New Car Limited Warranty.

Use of any oil additives is not recommended by MBUSA and may result in damage to the engine which is not covered by the Mercedes-Benz New Car Limited Warranty.

MB Approved Synthetic Engine oil	MB Sheet
Mobil 1 Tri-Synthetic Formula 0W-40	229.3
Castrol Syntec 5W-40	229.3
Quaker State Full Synthetic European Formula 5W-40	229.3
Pennzoil Synthetic European Formula 5W-40	229.3
76 Pure Synthetic Motor Oil 5W-40	229.3
Kendall GT-1 Full Synthetic Motor Oil 5W-40	229.3
Shell Helix Ultra 5W-30	229.3
Shell Helix Ultra 5W-40	229.3

Viscosity Grades for Motor Oils

Select oil viscosity according to the lowest air temperature expected before the next oil change using the chart below.



Approved Dextron III Automatic Transmission Fluid ¹⁾

Castrol Dextron-III/Mercon ATF F-30341

Castrol Transmax M-22257 / 22096

Chevron ATF Dextron III F-30108 / 30159

Citgo Multi-Purpose ATF D-21571

Exxon Superflo ATF Dextron III F-30111

Havoline ATF Mercon/ Dextron-III F-30321

Texaco ATF Mercon/ Dextron-III F-30321

Pennzoil ATF D-22413 / F-30110

Quaker State Dextron-III/Mercon F30161

Sunoco ATF Dextron-III/Mercon F-30176

**Unocal Multi-Purpose ATF D-
22413/22431**

Valvoline ATF Type D

¹⁾ Please see your Mercedes-Benz Center regarding applications. Do not use in 722.6 transmission!

Fuel Requirements

Gasoline Engines

Reformulated gasolines (RFG) and/or unleaded gasoline containing oxygenates such as Ethanol, TAME, ETBE, IPA, IBA, and TBA can be used provided that the ratio of any one of these oxygenates to gasoline does not exceed 10%. MIBE may be added up to 15%. The ratio of Methanol to gasoline must not exceed 3% plus co-solvents.

Mixtures of Ethanol and Methanol must not be used. Gasohol, which contains 10% Ethanol and 90% unleaded gasoline, can also be used. These blends must also meet all other fuel requirements such as resistance to spark knock, boiling range, vapor pressure, etc.

Gasoline Additives: A major concern among engine manufacturers is carbon build-up caused by gasoline. MERCEDES-BENZ recommends to use only quality gasoline containing additives that prevent the build up of carbon deposits.

After an extended period of using fuels without such additives, carbon deposits can build up, especially on the intake valves and in the combustion area, leading to engine performance problems such as:

- warm up hesitation,
- unstable idle,
- knocking / pinging
- misfire,
- power loss

DO NOT blend other fuel additives with the fuel. These additional additives only result in unnecessary cost and may be harmful to engine operation.

Damage or malfunction resulting from poor fuel quality or from blending additional fuel additives are not covered by the MERCEDES-BENZ Limited Warranty or by any pre-owned or Extended Limited warranties

Use only premium unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 91 min. In the U.S., this octane number is an average of the Research octane number (R) and the Motor octane number (M): $(R + M) / 2$. The octane number is also known as the Anti-Knock Index.

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To maintain the engine's durability and performance, only premium unleaded gasoline is to be used. If premium unleaded is not available and low octane gasoline is used, follow these precautions:

- **Partially fill the fuel tank with unleaded regular gasoline and fill up with premium unleaded as soon as possible.**
- **Avoid full throttle driving and abrupt acceleration.**

Gasoline Engines (cont'd)

- Do not exceed an engine speed of 2000 rpm if the vehicle has a light load (two occupants and no luggage for example).
- Do not exceed 2/3 of maximum accelerator pedal position if the vehicle is fully loaded or operating in mountainous terrain.

As of model year 1987

All gasoline engine models require premium unleaded gasoline.

Model year 1986

All gasoline engine models except 190E 2.3 require premium unleaded gasoline.

Model years 1975 - 1985 and model year 1986 190 E 2.3

Use unleaded regular gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 87 min.

Model years 1972 - 1974

Used leaded or unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 87 min. When only unleaded gasoline is being used, check the valve clearance on engines with mechanically adjustable valves at half the recommended interval.

Pre-model year 1972

Use premium unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 91 min. Check the valve clearance at half the recommended interval.

Diesel Engines

Use only commercially available vehicular diesel fuel number 2 or number 1 (ASTM D975 Number 2-D or Number 1-D).

For information on cold weather operation, refer to the vehicle Operator's Manual or Service Information MBNA 00/007(11-82).

Flexible Fuel Vehicles

Use premium unleaded gasoline (see gasoline engines) or Ethanol (E85) fuel to operate Flexible Fuel Vehicles. Models capable of operating with E85 are identified by a label reading Premium gasoline or E85 only! on the fuel filler flap.

For information on Flexible Fuel Vehicle operation, refer to the Operator's Manual.

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CLK (208)	CLK (209)	SL	CL
Brakes	Product Name / Part Number											
Brake Fluid (DOT 4 Plus)	MB Brake Fluid MB Part No. 000 989 08 07 10 (0.75 l container) MB Part No. 000 989 08 07 11 (5.00 l container) Mobil Brake Fluid DOT 4 Plus	•	•	•	•	•	•	•	•	•	•	•
Brake Pad Paste	MB Brake Pad Paste MB Part No. 001 989 10 51	•	•	•	•	•	•	•	•	•	•	•
Compressor (Air Conditioning)												
Compressor Oil (R134a)	MB Compressor Oil MB Part No. Q 1 13 0001	•	•	•	•	•	•	•	•	•	•	•
Differential (Front and Rear Axle)												
Hypoid Gear Oil¹ For front and rear axle differentials	MB Hypoid Gear Oil (85W-90)² MB Part No. 001 989 28 03		•									
Hypoid Gear Oil¹ For front and rear axle differentials	MB Hypoid Gear Oil (85W-90)³ MB Part No. 001 989 17 03 10	•		•	•	•	•	•	•	•	•	•

¹ Please see your Mercedes-Benz Center regarding applications. ² Meets sheet 235.0 specification. ³ Meets sheet 235.7 specification.

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CLK (208)	CLK (209)	SL	CL
Differential Lock Mechanism	Product Name / Part Number											
Brake Fluid For differential lock mechanism	MB Brake Fluid (DOT 4 Plus) MB Part No. 000 989 08 07 10 (0.75 l container) MB Part No. 000 989 08 07 11 (5.00 l container)		•									
Engine												
Supercharger Oil - Engine M111EVO SLK230 only!	MB Supercharger Oil MB Part No. 000 989 62 01							•				
Supercharger Oil - Engine M271 C-Class Sports Coupe only!	MB Supercharger Oil MB Part No. 000 989 62 01			•								
Supercharger Oil - Engine M112.96x C32 AMG, SLK32 AMG only!	Mobil Jet Oil II			•				•				
Supercharger Oil - Engine M113 SL55 AMG, CL55 AMG, S55 AMG only!	Mobil Jet Oil II						•				•	•
Approved Engine Oils All models	see pages 2 and 3	•	•	•	•	•	•	•	•	•	•	•

Engine Cooling System	Product Name / Part Number	M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CLK (208)	CLK (209)	SL	CL
Anticorrosion/ Antifreeze fluid	MB Anticorrosion/ Antifreeze MB Part No. Q 1 03 0002 (Meets 325.0 specification)	●	●	●	●	●	●	●	●	●	●	●

! The use of aluminum components in M-B engines requires that anticorrosive/ antifreeze specifically formulated to protect aluminum parts be used. Failure to use MB 325.0 anticorrosion/ antifreeze may result in a significantly shortened service life. While there may be a number of products available which will provide the required protection, all such products have not been tested for Mercedes-Benz vehicles. The above product is suitable for Mercedes-Benz engines and can be mixed with the original anticorrosion/ antifreeze filled in at the factory.

! Cooling system design and anticorrosion/ antifreeze agent used stipulate the replacement interval for the coolant solution in your vehicle. Please observe the replacement intervals specified in the Service Booklet for your vehicle model. Failure to use MB 325.0 anticorrosion/ antifreeze and/ or adhere to the specified replacement interval may result in a significantly shortened service life.

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CIK (208)	CIK (209)	SL	CL
Greasing Points	Product Name / Part Number											
Chassis Grease (NLGI Class 01) For all greasing points except front wheel hubs	Shell Retinax C	•	•	•	•	•	•	•	•	•	•	•
Multi-Purpose Grease (NLGI Class 2) For all greasing points except front wheel	3752 Almagnard Vari-Purpose Lubricant Castrol IM Grease Exxon Multi-Purpose Grease Renolit MP Unocal MP Automotive Grease	•	•	•	•	•	•	•	•	•	•	•
Long Term Lubricating Grease (NLGI Class 2) For release bearing, release arm and splines for connecting linkage on level control valves	Molykote Longterm 2 Plus MB Long Term Grease MB Part No. 000 989 63 51	•	•	•	•	•	•	•	•	•	•	•
MB Long Term Grease For propeller shaft - universal joints	MB Long Term Grease MB Part No. 000 989 63 51		•									
High Temperature Antifiction Grease (NLGI Class 2) For joint housing	MB High Temperature Antifiction Grease MB Part No. 001 989 23 51 10		•									

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CIK (208)	CIK (209)	SL	CL
Greasing Points	Product Name / Part Number											
Hydraulic Oil For tandem pumps with common oil reservoir for steering/ level control in E-Class, Model Year 1996 and newer	MB Hydraulic Oil MB Part No. 001 989 20 03 10				•							
Complex Grease (NLGI Class 2) For sliding blocks of sliding / pop-up roof	MB Lubrication Paste MB Part No. 001 989 46 51	•	•	•	•	•	•			•		•
Lubricant For lubricating outer guide rail of panorama roof	MB Special Lubricant MB Part No. 001 989 50 51			•		•						
Lubricating paste For cleaning outer/ inner channel, shift gate, pivot arm of wind deflector of top sliding roof (panorama roof)	MB Hydraulic Oil MB Part No. 001 989 14 51			•		•						
Hydraulic Oil For hydraulic soft top, retractable hardtop	MB Hydraulic Oil MB Part No. 000 989 91 03 10							•	•		•	
High Temperature Roller Bearing Grease (NLGI Class 2) For front wheel bearings	MB High Temperature Antifriction Grease MB Part No. 001 989 23 51 10	•	•	•	•	•	•	•	•	•	•	•

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CIK (208)	CIK (209)	SL	CL
Greasing Points	Product Name / Part Number											
Fluid Grease (NLGI Class 00) For door lock pin and striker eye	Castrol CIS Grease	•		•	•	•	•	•	•	•	•	•
Liquid Grease (NLGI Class 00) For door locks	Exxon Mobil Chassis Grease LEZ Exxon Mobil Grease TCL 435 MB Liquid Grease MB Part No. 001 989 08 51 10		•									
Active Body Control Fluid	MB ABC Fluid MB Part No. 001 989 24 03 10						•				•	•
Power Steering												
Steering Gear Lubricant - Power Steering	MB Power Steering Fluid MB Part No. 001 989 24 03 10 Pentosin CHF 11S			•		•	•			•	•	•
Steering Gear Lubricant - Power Steering	MB Power Steering Fluid MB Part No. Q 1460001 or an approved Dextron III ATF, see page 5	•	•		•			•	•			

		M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CLK (208)	CLK (209)	SL	CL
Transmission	Product Name / Part Number											
Automatic Transmission Fluid¹⁾	MB Automatic Transmission Fluid MB Part No. 001 989 21 03 10	•	•	•	•	•	•	•	•	•	•	•
Manual Transmission Fluid For MB Manual Transmission - 5- and 6 speed	MB Manual Transmission Fluid MB Part No. 001 989 26 03 10			•				•				
Transfer Case												
4MATIC Transfer Case Lubricant	MB Automatic Transmission Fluid MB Part No. 001 989 21 03 10			•	•		•					
Transfer Case Lubricant	MB Transfer Case Fluid MB Part No. 001 989 28 03		•									
Transfer Case Lubricant	MB Transfer Case Fluid MB Part. No. Q 1460001 or an approved Dextron III ATF, see page 5	•										

¹⁾ Please see your Mercedes-Benz Center regarding applications.

Windshield Washing System	Product Name / Part Number	M-Class	G-Class	C-Class	E-Class (210)	E-Class (211)	S-Class	SLK	CIK (208)	CIK (209)	SL	CL
Windshield Washer Concentrate	MB Summerwash Formula VR9422 MB Part No. 001 986 44 71 10 (40 ml) Suggested Mixing Ratio (1:100)	●	●	●	●	●	●	●	●	●	●	●

Ambient Temperature	MB Summerwash	Added to	Water	Solvent ¹⁾
Summer use (above 32° F)	40 ml	added to	1 Gallon	
Winter use (below 32° F)	40 ml	added to		1 Gallon

¹⁾ Pre-mixed windshield washer solvent (commercially available blue concentrate in 1 gallon container)

Distributor in the United States:
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