

Mandatory specifications for Service Fill Engine Oils in Passenger Cars/Van engines - Mercedes-Benz, AMG, Maybach, smart

MB specifications for operating fluids / MB Sheet	226.5	226.51	226.52	228.51 ⁶⁾	229.5	229.51	229.52	229.6 ⁴⁾	229.61 ⁴⁾	229.71 ⁴⁾	229.72 ⁴⁾	229.81 ⁴⁾
Gasoline Engines - worldwide-												
PC engines												
M 152, M 157, M 158, M 275, M 277, M 279 (except BR 223), M 285 (Maybach), M 133, M 156, M 159, M 176 in G500 (up to and including MY 2018), M 177, M 178	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 279 in BR 223	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-
M 139	-	-	-	-	-	-	-	-	-	● ⁷⁾	-	-
M 176 (incl. G500 starting MJ 2019)	-	-	-	-	-	-	●	-	● ⁵⁾	-	-	-
M 132, M 266, M 271, M 272, M 273, M 278	-	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
M 270, M 274 except hybrid, M 276	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-
M 274 Hybrid	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 254 except hybrid	-	-	-	-	-	-	-	-	-	● ⁷⁾	● ⁵⁾⁷⁾	-
M 254 Hybrid	-	-	-	-	-	● ⁸⁾	● ⁸⁾⁵⁾	-	-	-	-	-
M 256.9 except hybrid, M 260, M 264, M 282.9	-	-	-	-	-	●	● ⁵⁾	-	●	●	● ⁵⁾	-
M 256 Hybrid	-	-	-	-	-	● ²⁾	● ²⁾⁵⁾	-	-	-	-	-
M 256.8 except hybrid, M 260 A	-	-	-	-	-	-	-	-	-	●	● ⁵⁾	-
M 282.8	-	-	-	-	-	-	-	-	-	●	●	● ⁵⁾
M 281	●	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
VAN engines												
M 200.71 in Citan	●	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
M 200.73 in Citan	-	-	●	-	-	-	-	-	-	-	-	-
M 274 in Vito, V-Class, Metris	-	-	-	-	●	-	-	● ⁵⁾	-	-	-	-
M 274 in Sprinter	-	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
Gasoline engines additional approvals: -Only for western Europe-												
M 270, M 274 except hybrid	-	-	-	-	●	●	●	● ⁵⁾	-	-	-	-
M 132, M 266, M 271	-	-	-	-	●	●	● ⁵⁾	-	-	-	-	-
M 133, M 156, M 159, M 176 in G500 (up to and including MY 2018), M 177, M 178	-	-	-	-	● ²⁾⁵⁾	● ²⁾	-	-	-	-	-	-
Diesel Engines - Worldwide												
(a) in vehicles without particulate filter (DPF)												
PC engines: OM 651, OM 642	-	-	-	●	●	●	● ¹⁾⁵⁾	-	-	-	-	-
VAN engines: OM 651 in Vito, Sprinter, Viano, V-Class	-	-	-	● ³⁾	● ³⁾	● ³⁾	● ³⁾⁵⁾	-	-	-	-	-
(b) in vehicle with particulate filter (DPF)												
PC engines												
OM 607 (in PC), OM 626	-	●	-	-	-	●	● ⁵⁾	-	-	-	-	-
OM 608	-	●	-	-	-	●	●	-	● ⁵⁾	-	-	-
OM 651, OM 660 (EU3/EU4 with none-controlled particulate filter)	-	-	-	●	-	●	● ⁵⁾	-	-	-	-	-
OM 642 - starting MY 2017	-	-	-	-	-	-	● ¹⁾⁵⁾	-	-	-	-	-
OM 654.9 except hybrid, OM 654.8 except hybrid (Mopf)	-	-	-	-	-	-	-	●	●	●	● ⁵⁾	-
OM 654.9 Hybrid, OM 654.8 Hybrid (Mopf)	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-
OM 656	-	-	-	-	-	-	● ¹⁾	-	● ⁵⁾	-	-	-
VAN engines												
OM 642, OM 651 in Vito, Sprinter, Viano, V-Class OM 699.300/.301/.302/.303, OM 642 in X-Class	-	-	-	● ³⁾	-	● ³⁾	● ³⁾⁵⁾	-	-	-	-	-
OM 654 in Vito, V-Class, Sprinter	-	-	-	●	-	●	●	-	●	● ⁵⁾	-	-
OM 607 in Citan	-	●	-	● ³⁾⁵⁾	-	-	-	-	-	-	-	-
OM 622.9 in Vito	-	-	-	● ³⁾⁵⁾	-	-	-	-	-	-	-	-
OM 608.9 in Citan (Baumuster 415)	-	●	●	-	-	-	-	-	-	● ⁵⁾	-	-
OM 608.9 in Citan (Baumuster 420) OM 622.8 in Vito OM 699.304/.305 in X-Class	-	-	● ⁵⁾	-	-	-	-	-	-	-	-	-

● approved - not approved

1.) For special applications (e.g. 461; 464, non-civilian applications) or engines not listed (OM 642 before 2017), please refer to the operating instructions

2.) Restriction: Use only SAE 0W-40 or 5W-40

3.) Recommendation: In order to ensure cold start operability at temperatures below -20°C as well as optimum lubrication at low ambient temperatures and under conditions of high biofuel content in the fuel, the viscosities SAE 0W-30, 0W-40 or SAE 5W-30, 5W-40 are recommended as year-round engine oils for VAN engines. Please note the temperature ranges of vehicle operation indicated in the operator's manual or on sheet 224.1.

4.) To be noticed: The specifications 229.6, 229.61, 229.71, 229.72, 229.81 allow engines oils with very low viscosities (SAE class, HTHS value). Their usage is permitted only according to the manuals of approved vehicles/engines (cp.table above). The usage in engine types not approved for these specifications (in particular older engine types) can cause damage to the engine

5.) Recommended for achieving lowest fuel consumption (lowest SAE viscosity class should be used; possible limitations of approved SAE viscosity classes to be noticed)

6.) This specification was transferred to Daimler Truck AG (<https://bevo.mercedes-benz-trucks.com>)

7.) Restriction: Use only SAE 0W-20!

8.) Restriction: Use only SAE 0W-40!

9.) Specification recommended for achieving lowest fuel consumption: RN17FE

Notes:

In general, the binding engine oil specification (MB-sheet) is documented in the relevant operating manual of the vehicle.

This table contains only engine oil specifications for engines that are currently in production.

Information on unlisted or older engine types are described in the manual of the vehicle or the maintenance instructions.

The prescribed engine oil drain may be dependent on the applied engine oil specification. When using certain specifications reduced engine oil drain intervals have to be considered.

Details are documented in the operating manual of the vehicle, the service information or maintenance instructions or are to be asked at the Mercedes-Benz Classic Center.

Multi grade oils can be used all year-round taking into consideration the outside temperature (see sheet 224.1)

The suitability of the applied viscosity grade (SAE grade) for the expected outside temperatures has to be ensured before the cold season starts.