

Prescribed Specifications for Service Fill Engine Oils in Passenger Car/ VAN engines - Mercedes-Benz, AMG, Maybach, smart

MB specifications for operating fluids / MB Sheet	226.5	226.51	226.52	228.51	229.3	229.31	229.5	229.51	229.52	229.6 ⁶⁾	229.61 ⁶⁾	229.71 ⁶⁾	229.72 ⁶⁾	229.81 ⁶⁾
Gasoline Engines - Western Europe -														
PC engines														
M 155 (SLR)	-	-	-	-	● ¹⁾	-	-	-	-	-	-	-	-	-
M 152, M 157, M 158, M 275, M 277, M 279 (except BR 223), M 285 (Maybach)	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 279 in BR 223	-	-	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-
M 133, M 156, M 159, M 176 in G500 (up to and including model year 2018), M 177, M 178 (139.9/transversal und 139.5/longitudinal)	-	-	-	-	-	-	● ²⁾⁵⁾	● ²⁾	-	-	-	-	-	-
M 139 (139.9/transversal und 139.5/longitudinal)	-	-	-	-	-	-	-	-	-	-	-	-	● ⁵⁾⁷⁾	-
M 176 (except G500 up to and including MY 2018)	-	-	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-
M 272, M 273	-	-	-	-	●	-	● ⁵⁾	-	-	-	-	-	-	-
M 132, M 266, M 271.9	-	-	-	-	●	●	●	●	● ⁵⁾	-	-	-	-	-
M 271.8 (EVO)	-	-	-	-	●	-	●	●	● ⁵⁾	-	-	-	-	-
M 270, M 274 except hybrid	-	-	-	-	●	-	●	●	● ⁵⁾	-	-	-	-	-
M 274 hybride	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 276	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-	-
M 278	-	-	-	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
M 254 except hybrid	-	-	-	-	-	-	-	-	-	-	-	● ⁷⁾	● ⁵⁾⁷⁾	-
M 254 hybride	-	-	-	-	-	-	-	● ⁸⁾	● ⁸⁾⁵⁾	-	-	-	-	-
M 256.9 except hybrid, M 260, M 264, M 282.9	-	-	-	-	-	-	-	-	-	-	●	●	● ⁵⁾	-
M 256.9 hybride	-	-	-	-	-	-	-	● ²⁾	● ²⁾⁵⁾	-	-	-	-	-
M 256.8 except hybrid (Mopf)	-	-	-	-	-	-	-	-	-	-	-	-	● ⁵⁾	-
M 282.8 (Mopf)	-	-	-	-	-	-	-	-	-	-	-	-	●	● ⁵⁾
M 281	●	-	-	-	●	-	● ⁵⁾	-	-	-	-	-	-	● ⁵⁾
VAN engines														
M 200.71 in Citan	●	-	-	-	●	-	● ⁵⁾	-	-	-	-	-	-	-
M 200.73 in Citan	-	-	●	-	-	-	-	-	-	-	-	-	-	-
Gasoline Engines - Worldwide (except Western Europe) -														
PC engines														
M 155 (SLR)	-	-	-	-	● ¹⁾	-	-	-	-	-	-	-	-	-
M 133, M 152, M 156, M 157, M 158, M 159, M 176 in G500 (up to and including model year 2018), M 177, M 178, M 275, M 277, M 279 (except BR 223), M 285 (Maybach)	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 279 in BR 223	-	-	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-
M 139 (139.9/transversal und 139.5/longitudinal)	-	-	-	-	-	-	-	-	-	-	-	-	● ⁵⁾⁷⁾	-
M 176 (except G500 up to and including MY 2018)	-	-	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-
M 132, M 266, M 271.9, M 271.8 (EVO), M 272, M 273, M 278	-	-	-	-	-	-	● ⁵⁾	-	-	-	-	-	-	-
M 270, M 274 except hybrid, M 276	-	-	-	-	-	-	●	-	● ⁵⁾	-	-	-	-	-
M 274 hybride	-	-	-	-	-	-	● ²⁾⁵⁾	-	-	-	-	-	-	-
M 254 except hybrid	-	-	-	-	-	-	-	-	-	-	-	● ⁷⁾	● ⁵⁾⁷⁾	-
M 254 hybride	-	-	-	-	-	-	-	● ⁸⁾	● ⁸⁾⁵⁾	-	-	-	-	-
M 256.9 except hybrid, M 260, M 264, M 282.9	-	-	-	-	-	-	-	-	-	-	●	●	● ⁵⁾	-
M 256.9 hybride	-	-	-	-	-	-	-	● ²⁾	● ²⁾⁵⁾	-	-	-	-	-
M 256.8 except hybrid (Mopf)	-	-	-	-	-	-	-	-	-	-	-	-	● ⁵⁾	-
M 282.8 (Mopf)	-	-	-	-	-	-	-	-	-	-	-	-	●	● ⁵⁾
M 281	●	-	-	-	●	-	● ⁵⁾	-	-	-	-	-	-	● 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⁾	-	-	-	-	-	-	-
Diesel Engines - Worldwide														
(a) in vehicles without particulate filter (DPF)														
PC engines: OM 651, OM 642														
VAN engines: OM 651 in Vito, Sprinter, Viano, V class														
	-	-	-	● ³⁾	● ³⁾	● ³⁾	● ³⁾	● ³⁾	● ³⁾⁵⁾	-	-	-	-	-
(b) in vehicle with particulate filter (DPF)														
PC engines														
OM 607 (in passenger cars), OM 626	-	●	-	-	-	●	-	●	● ⁵⁾	-	-	-	-	-
OM 608	-	●	-	-	-	●	-	●	●	-	●	● ⁵⁾	-	-
OM 651	-	-	-	●	-	●	-	●	● ⁵⁾	-	-	-	-	-
OM 642 - up to and including model year 2016 except: OM 642 EU6 in BR 164.124/824, BR 251.124, BR 221 (UK), BR 222 (UK) OM 642 in BR 463.306/336/346 OM 642 Bin5 in BR 164.125/825, BR 251.125 (only USA and Kanada) OM 642 EU4 in BR 221.122 (UK)	-	-	-	●	-	●	-	●	● ⁵⁾	-	-	-	-	-
OM 642 EU6 in BR 164.124/824, BR 251.124, BR 221 (UK), BR 222 (UK) OM 642 in BR 463.306/336/346 OM 642 Bin5 in BR 164.125/825, BR 251.125 (only USA and Kanada) OM 642 EU4 in BR 221.122 (UK)	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-	-
OM 642 - as of model year 2017	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-	-
OM 660 (EU3/EU4 with non-controlled particulate filter)	-	-	-	●	-	●	-	●	● ⁵⁾	-	-	-	-	-
OM 654.9 except hybrid, OM 654.8 except hybrid (Mopf)	-	-	-	-	-	-	-	-	-	-	●	●	● ⁵⁾	-
OM 654.9 hybride, OM 654.8 hybride (Mopf)	-	-	-	-	-	-	-	-	-	● ⁵⁾	-	-	-	-
OM 656	-	-	-	-	-	-	-	-	-	-	● 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⁾	● ³⁾⁵⁾	-	-	-	-	-
OM 654 in Vito, V class, Sprinter	-	-	-	-	-	●	-	●	●	-	●	● ⁵⁾	-	-
OM 607 in Citan	-	●	-	-	-	-	-	-	-	-	-	-	-	-
OM 622.9 in Vito	-	-	-	● ³⁾⁵⁾	-	-	-	-	-	-	-	-	-	-
OM 608.9 in Citan (model type 415)	-	●	●	-	-	-	-	-	-	-	-	● ⁵⁾	-	-
OM 608.9 in Citan (model type 420) OM 622.8 in Vito OM 699.304/305 in X class	-	-	● ⁸⁾	-	-	-	-	-	-	-	-	-	-	-

● approved - not approved

1.) Restriction: Use only SAE 5W-50!

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 outside 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.) Restriction: Use only SAE 0W-30 or SAE 5W-30!

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.