

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	228.3 228.5	228.51	229.3	229.31	229.5	229.51	229.52	229.6 ⁹⁾	229.61 ⁹⁾	229.71 ⁹⁾	229.72 ⁹⁾
Gasoline Engines - Western Europe -														
PC engines														
M 155 (SLR)	-	-	-	-	-	● 1)	-	-	-	-	-	-	-	-
M 152, M 157, M 158, M 275, M 277, M 279, M 285 (Maybach)	-	-	-	-	-	-	-	● 2)	-	-	-	-	-	-
M 133, M 156, M 159, M 176 in G500 (up to and including model year 2018), M 177, M 178	-	-	-	-	-	-	-	● 2)	● 2),5)	-	-	-	-	-
M 139.9 (transverse) in BR 177, BR 118, BR 247	-	-	-	-	-	-	-	-	-	-	-	-	● 5)	-
M 176 in BR 222, BR 217, BR 463 (as of model year 2019)	-	-	-	-	-	-	-	-	-	●	-	● 5)	-	-
M 272, M 273	-	-	-	-	-	●	-	● 5)	-	-	-	-	-	-
M 132, M 266, M 271	-	-	-	-	-	●	●	●	●	● 5)	-	-	-	-
M 271 EVO	-	-	-	-	-	●	-	●	●	● 5)	-	-	-	-
M 270, M 274 (except M 274 hybride)	-	-	-	-	-	●	-	●	●	● 5)	-	-	-	-
M 274 hybride	-	-	-	-	-	-	-	● 2)	-	-	-	-	-	-
M 276	-	-	-	-	-	-	-	-	-	-	● 5)	-	-	-
M 278	-	-	-	-	-	-	-	● 5)	-	-	-	-	-	-
M 254 (except M 254 hybride)	-	-	-	-	-	-	-	-	-	-	-	-	● 7)	● 7),5)
M 254 hybride	-	-	-	-	-	-	-	-	● 8)	● 8),5)	-	-	-	-
M 256 (except M 256 hybride), M 260, M 264, M 282	-	-	-	-	-	-	-	-	●	●	-	●	●	● 5)
M 256 hybride	-	-	-	-	-	-	-	-	● 2)	● 2),5)	-	-	-	-
M 281	●	-	-	-	-	●	-	● 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, M158, M 159, M 176 in G500 (up to and including model year 2018), M 177, M 178, M 275, M 277, M 279, M 285 (Maybach)	-	-	-	-	-	-	-	● 2)	-	-	-	-	-	-
M 139.9 (transverse) in BR 177, BR 118, BR 247	-	-	-	-	-	-	-	-	-	-	-	-	● 5)	-
M 176 in BR 222, BR 217, BR 463 (as of model year 2019)	-	-	-	-	-	-	-	-	-	●	-	● 5)	-	-
M 132, M 266, M 271, M 271 EVO, M 272, M 273, M 278	-	-	-	-	-	-	-	● 5)	-	-	-	-	-	-
M 270, M 274 (except M 274 hybride), M 276	-	-	-	-	-	-	-	●	-	-	● 5)	-	-	-
M 274 (except M 274 hybride)	-	-	-	-	-	-	-	-	-	-	● 5)	-	-	-
M 274 hybride	-	-	-	-	-	-	-	● 2)	-	-	-	-	-	-
M 254 (except M 254 hybride)	-	-	-	-	-	-	-	-	-	-	-	-	● 7)	● 7),5)
M 254 hybride	-	-	-	-	-	-	-	-	● 8)	● 8),5)	-	-	-	-
M 256 (except M 256 hybride), M 260, M 264, M 282	-	-	-	-	-	-	-	-	●	●	-	●	●	● 5)
M 256 hybride	-	-	-	-	-	-	-	-	● 2)	● 2),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)	-	-	-	-	-	-
Diesel Engines - Worldwide -														
(a) in vehicles without particulate filter (DPF)														
PC engines: OM 651, OM 642	-	-	-	●	●	●	●	●	●	● 5)	-	-	-	-
VAN engines: OM 651 in Vito, Sprinter, Viano, V-Class	-	-	-	● 3)	● 3)	● 3)	● 3)	● 3)	● 3)	● 3),5)	-	-	-	-
(b) in vehicles 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 Canada) 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 Canada) OM 642 EU4 in BR 221.122 (UK)	-	-	-	-	-	-	-	-	-	● 5)	-	-	-	-
OM 642 - as of modification year 2017	-	-	-	-	-	-	-	-	-	● 5)	-	-	-	-
OM 660 (EU3/EU4 with none-controlled particulate filter)	-	-	-	-	●	-	●	-	●	● 5)	-	-	-	-
OM 654, OM654 M (except for hybrides)	-	-	-	-	-	-	-	-	-	●	-	●	●	● 5)
OM 654 hybride	-	-	-	-	-	-	-	-	-	● 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	-	●	-	-	● 3),5)	-	-	-	-	-	-	-	-	-
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: Only SAE 5W-50 engine oils are allowed
- 2.) Restriction: Only SAE 0W-40 und SAE 5W-40 engine oils are allowed
- 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 and 228.61 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: Only SAE 0W-30 und SAE 5W-30 engine oils are allowed
- 7.) Restriction: Only SAE 0W-20 engine oils are allowed
- 8.) Restriction: Only SAE 0W-40 engine oils are allowed
- 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.

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.