

MB Sheet 223.3

Version:

08/2020

Prescribed Specifications for Service Fill Engine Oils in Commercial Vehicle Engines - Mercedes-Benz

MB specifications for operating fluids / MB Sheet		228.1	228.2 / .3	228.31	228.5	228.51	228.52	228.61
		Multigrade	Mono- / Multigrade	Multigrade	Multigrade	Multigrade	Multigrade	Multigrade
Diesel engines - worldwide -								
(a) in commercial vehicles and busses <u>without</u> particulate filter (DPF)								
BR 300, 400, 500, 900 & OM 457/460	up to and including Euro III	○ / ●	○ / ●	●	●	●	○	-
BR 900, BR 500, OM 457/460	Euro IV / V / EEV	-	○ / ●	●	●	●	○	-
OM 470, 471, 473	up to and including Euro V	-	- / ●	●	●	●	○	-
Compressed natural gas engine M 906 LAG	EEV	-	-	-	-	●	○	-
Compressed natural gas engine M 936 G	Euro VI	see Service-Information S118.00-W-0013A and S118.00-W-0013B						
(b) in commercial vehicles <u>with</u> particulate filter (DPF)								
BR 900, BR 500 & OM 457/460		-	-	●	-	●	○	-
OM 934, OM 936	Euro VI	-	-	●	-	●	○	●
OM 470 (until June 2016) OM 471 (until June 2016) OM 473 (until June 2018)	Euro VI	-	-	●	-	●	○	-
OM 470 FE1-engine type (manufactured <u>after</u> June 2016): 470.913, 470.921 OM 471 FE1-engine type (manufactured <u>after</u> June 2016): 471.926, 471.944 OM 473 FE1-engine type (FIS GEN2; manufactured <u>after</u> June 2018): 473.909, 473.919	Euro VI	-	-	●	-	●	○	●
(c) in busses <u>with</u> particulate filter (DPF)								
BR 900, BR 500 & OM 457		-	-	●	-	●	○	-
OM 934, OM 936, OM 936 h	Euro VI	-	-	○	-	●	●	●
OM 470 (until June 2016) OM 471 (until June 2016)	Euro VI	-	-	●	-	●	●	-
OM 470 FE1-engine type (manufactured <u>after</u> June 2016): 470.914, 470.915, 470.923 OM 471 FE1-engine type (manufactured <u>after</u> June 2016): 471.937, 471.946	Euro VI	-	-	●	-	●	●	●
(d) in industrial/off road applications <u>without</u> particulate filter (DPF)								
BR 900, BR500, OM 460	to/incl. EU Stage IIIA/US Tier 3	○ / ●	○ / ●	●	●	●	○	-
BR 900, BR500, OM 460	EU Stage IIIB / US Tier 4i	-	○ / ●	●	●	●	○	-
OM 934, OM 936	EU Stage IV / US Tier 4, EU Stage IIIA Downgrade	-	- / ●	●	●	●	○	-
OM 470, OM 471, OM 473	EU Stage IV / US Tier 4	-	- / ●	●	●	●	○	-
OM 470, OM 471, OM 473	EU Stage IIIA Downgrade	-	- / ●	●	●	●	○	-
(e) in industrial/off road applications <u>with</u> particulate filter (DPF)								
OM 934, OM 936	EU Stage V / US Tier 4	-	-	-	-	○	●	-
OM 470, OM 471, OM 473	EU Stage V / US Tier 4	-	-	●	-	●	●	-

○ only allowed in exceptional cases and under specific operating conditions / applications

- not allowed

Hints:

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 operating instructions of the vehicle or the maintenance instructions.

The prescribed engine oil drain interval is 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.

Multigrade oils can be used all year-round taking into consideration the outside temperature (see sheet 224.2)

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