

BB00.40-P-0223-02A	Specified engine oils (service) - Overview	Sheet 223.2 For Mercedes-Benz and Smart	
		Viscosity classes of engine oils (car engines)	BB00.40-P-0224-01A
		Viscosity classes of engine oils (CV engines)	BB00.40-P-0224-02A
		Multigrade engine oils (specification 226.5)Engine all (4xWD, CAR, Light transporter, smart)	BB00.40-P-0226-05A
		Low SPAsh multigrade service engine oils (specification 226.51)Engine all (4xWD, CAR, Light transporter, smart)	BB00.40-P-0226-51A
		Single grade engine oils (specification 228.0)	BB00.40-P-0228-00A
		Multigrade engine oils (specification 228.1)	BB00.40-P-0228-01A
		Single grade engine oils (specification 228.2)	BB00.40-P-0228-02A
		Multigrade engine oils (specification 228.3)	BB00.40-P-0228-03A
		Multigrade engine oils (specification 228.31)	BB00.40-P-0228-31A
		Multigrade engine oils (specification 228.5)	BB00.40-P-0228-05A
		Low SPAsh multigrade service engine oils (specification 228.51)	BB00.40-P-0228-51A
		Low SPAsh multigrade service engine oils (specification 228.61)	BB00.40-P-0228-61A
		Multigrade engine oils (specification 229.3)	BB00.40-P-0229-03A
		Low SPAsh multigrade service engine oils (specification 229.31)	BB00.40-P-0229-31A
		Multigrade engine oils (specification 229.5)	BB00.40-P-0229-05A
		Low SPAsh multigrade service engine oils (specification 229.51)	BB00.40-P-0229-51A
		Low SPAsh multigrade service engine oils (specification 229.52)	BB00.40-P-0229-52A
		Multigrade engine oils (specification 229.6)Engine all (4xWD, CAR)	BB00.40-P-0229-06A
		Low SPAsh multigrade service engine oils (specification 229.71)Engine all (4xWD, CAR)	BB00.40-P-0229-71A

**Engine all (4xWD, BUS, CAR, Heavy transporter, Light transporter, TRUCK, UNIMOG, smart)**

Multigrade oils can be used year-round taking the outside temperature into account (scope of application see Sheet 224.1, Sheet 224.2).

Before the cold season starts, ensure that the viscosity class (SAE-grade) used is adapted to the expected outside temperatures.

<b>Prescribed specification for service fill engine oils</b>									
<b>Car/van engines - Mercedes-Benz, AMG, Maybach, smart</b>									
<b>MB Specifications for Operating Fluids, sheet</b>	<b>Multigrade</b>								
	<b>226</b>	<b>229</b>							
	<b>.5</b>	<b>.3</b>	<b>.31</b>	<b>.5</b>	<b>.51</b>	<b>.52</b>	<b>.6 4.)</b>	<b>.61 5.)</b>	<b>.71 4.)</b>
<b>Gasoline engines - Western Europe -</b>									
M 155 (SLR)	–	● 1.)	–	–	–	–	–	–	–
M 152, 157, 158, 275, 277, 279, 285 (Maybach)	–	–	–	● 2.)	–	–	–	–	–
M 133, 156, 159, 176 in model 463, 177, 178	–	–	–	● 2.)	● 2.)	–	–	–	–
M 176 in model 222	–	–	–	–	–	●	–	●	–
M 122, 272, 273	–	●	–	●	–	–	–	–	–
M 132, 266, 271 except EVO	–	●	●	●	●	●	–	–	–
M 256	–	–	–	–	●	●	–	●	●
M 271 EVO	–	●	–	●	●	●	–	–	–
M 270, 274	–	●	–	●	●	●	●	–	–
M 276	–	–	–	●	–	–	●	–	–
M 278	–	–	–	●	–	–	–	–	–
M 281	●	●	–	●	–	–	–	–	–
Van engines (Citan): M 200.71	●	●	–	●	–	–	–	–	–
<b>Gasoline engines - Worldwide without Western Europe -</b>									
M 155 (SLR)	–	● 1.)	–	–	–	–	–	–	–
M 133, 152, 156, 157, 158, 159, 176 in model 463, 177, 178, 275, 277, 279, 285 (Maybach)	–	–	–	● 2.)	–	–	–	–	–
M 122, 132, 266, 271, 271 EVO, 272, 273, 278	–	–	–	●	–	–	–	–	–
M 176 in model 222	–	–	–	–	–	●	–	●	–
M 256	–	–	–	–	●	●	–	●	●
M 270, 274, 276	–	–	–	●	–	–	●	–	–
M 281	●	●	–	●	–	–	–	–	–
Van engines (Citan): M 200.71	●	–	–	●	–	–	–	–	–

Prescribed specification for service fill engine oils Car/van engines - Mercedes-Benz, AMG, Maybach, smart											
MB Specifications for Operating Fluids, sheet	Multigrade										
	226	228			229						
	.51	.3	.5	.51	.3	.31	.5	.51	.52	.61 <sup>5.)</sup>	.71 <sup>4.)</sup>
<b>Diesel engines - Worldwide -</b>											
<b>in vehicles without diesel particulate filter (DPF)</b>											
OM 660	-	-	●	●	●	●	●	●	●	-	-
OM 640, 642, 646, 651	-	●	●	●	●	●	●	●	●	-	-
Van engines (Vito, Viano, Sprinter): OM 611, 612, 646, 647, 651	-	● 3.)	● 3.)	● 3.)	● 3.)	● 3.)	● 3.)	● 3.)	● 3.)	-	-
<b>in vehicles with diesel particulate filter (DPF)</b>											
OM 607 in model 117, 156, 176, 246, 415	●	-	-	-	-	●	-	●	●	-	-
OM 626	-	-	-	●	-	●	-	●	●	-	-
OM 629, 640, 646, 651	-	-	-	●	-	●	-	●	●	-	-
OM 642 up to incl. YoM 2016 except for OM 642 Euro VI standard in model 164.124/824, 251.124, 221 <sup>GB</sup> , 222 <sup>GB</sup> except OM 642 in model 463.306/336/346 except OM 642 Bin5 in model 164.125/825, 251.125 <sup>USA</sup> , <sup>CDM</sup> except for OM 642 Euro IV standard in model 221.122 <sup>GB</sup>	-	-	-	●	-	●	-	●	●	-	-
OM 642 Euro VI standard in model 164.124/824, 251.124, 221 <sup>GB</sup> , 222 <sup>GB</sup> OM 642 in model 463.306/336/346 OM 642 Bin5 in model 164.125/825, 251.125 <sup>USA</sup> , <sup>CDM</sup> OM 642 Euro IV standard in model 221.122 <sup>GB</sup>	-	-	-	-	-	-	-	-	●	-	-
OM 642 from YoM 2017	-	-	-	-	-	-	-	-	●	-	-
OM 654	-	-	-	●	-	●	-	●	●	●	●
OM 656	-	-	-	-	-	-	-	-	●	●	-
OM 660 (Euro III standard/Euro IV standard with non-regulated DPF)	-	-	○	●	-	●	-	●	●	-	-
Van engines (Vito, Viano, Sprinter): OM 642, 646, 651	-	-	-	● 3.)	-	● 3.)	-	● 3.)	● 3.)	-	-
Van engines (Citan, Vito): OM 607, 622	●	-	-	● 3.)	-	-	-	-	-	-	-

Prescribed specification for service fill engine oils Commercial vehicle engines - Mercedes-Benz											
MB Specifications for Operating Fluids, sheet	Single/multi-grade		Multigrade								
	228		.0/1	.2/3	.31	.5	.51	.61			
<b>Diesel engines - Worldwide -</b>											
<b>in commercial vehicles, buses without diesel particulate filter (DPF)</b>											
Model series 300, 400, 500, 900, OM 457	up to and including Euro III standard		○/●	○/●	●	●	●	●	-	-	-
Model series 500, 900, OM 457	Euro IV/IV standard		-	○/●	●	●	●	●	-	-	-
OM 471	Euro V standard		-	-/●	○	●	○	-	-	-	
Natural gas engine M906 LAG	EEV		-	-	-	-	●	-	-	-	
Natural gas engine M936 G <sup>6.</sup> )	Euro VI standard		-	-	-	-	-	-	-	-	
<b>in commercial vehicles, buses with diesel particulate filter (DPF)</b>											
Model series 500, 900, OM 457			-	-	●	-	●	-	-	-	
OM 934, 936 with vertical installation	Euro VI standard		-	-	●	-	●	-	-	-	
OM 936 with horizontal installation	Euro VI standard		-	-	-	-	●	-	-	-	
OM 470 without M5M, OM 471 without M5M, 473	Euro VI standard		-	-	●	-	●	-	-	-	
OM 470.913/914/915/921/923 with M5M, OM 471.926/937/938/944/946 with M5M	Euro VI standard		-	-	●	-	●	-	●	●	
<b>in industrial applications without diesel particulate filter (DPF)</b>											
Model series 500, 900, OM 460	up to incl. Euro IIIA standard / US Tier 3 Standard		○/●	○/●	●	●	●	●	-	-	-
Model series 500, 900, OM 460	Euro IIIB standard / US Tier 4i Standard		-	○/●	●	●	●	●	-	-	-
OM 934, 936	Euro VI standard / US Tier 4 Standard		-	-/●	●	●	●	●	-	-	
OM 470, 471, 473	Euro VI standard / US Tier 4 Standard		-	-/●	●	●	●	●	-	-	

**Notes:**

As a general rule, the binding engine oil specification (MB sheet) can be found in the respective operator's manual for the vehicle. This table only contains engine oil specifications for engines that are currently in production. Information on unlisted or older engine models can be found in the vehicle's operator's manual or the maintenance procedures.

- May not be used.

- Restriction:** Only SAE-grade 5W-50 products are permitted.
- Restriction:** Only SAE 0W-40 and SAE 5W-40 engine oils may be used!
- Recommendation:** To ensure cold start ability at temperatures below -20 °C as well as optimal lubrication behavior at low outside temperatures and due to increased loads (e.g. due to alternative

The specified oil change interval can, amongst other things, depend on the used engine oil specification. Where certain specifications are used, reduced oil change intervals may - where appl. - have to be taken into account. Details can be found in the vehicle's operator's manual, the Service information or maintenance procedures.

● Approval


○ Can only be used in exceptional cases or under certain operating conditions/in certain applications.

fuels), the viscosities SAE 0W-30, 0W-40 or SAE 5W-30, 5W-40 are recommended as the year-round oils for van engines. Please note the application temperature ranges in the operator's manual or on sheet 224.1 in this regard.

4 **Please note:** The specifications 229.6 and 229.71 allow for engine oils with very low viscosities (SAE-grade, HTHS value) that are only permitted for use in the engines approved as per the operator's manual (see also above table). The use of engine oils in non-approved engine types (in particular older engine types) can lead to engine damage.

5  **Introduction in 06/2017**

**Please note:** The specification 229.61 allows for engine oils with very low viscosities (SAE-grade, HTHS value) that are only permitted for use in the engines approved as per the operator's manual (see also above table). The use of engine oils in non-approved engine types (in particular older engine types) can lead to engine damage.

6  See service information SI18.00-W-0013A and SI18.00-W-0013B