

BMW Group - AIR: 2024-01-18 / 13:53
Retailer: 29657/01
Model: 740Ld xDrive
Vehicle identification number: WBA7G81000G678226
Development code: G12
Model code: 7G81
Lead type: 7G81

10.0 BMW Longlife-19 FE »

3.0 Technically suitable engine oils for BMW Group engines

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Enclosure 3 to SI 11 07 96 (138), edition 07/2023

3.0 Technically suitable engine oils for BMW Group engines

Colour-coded engine oils are recommended for the respective engine and are mandatory for the US market according to legal specifications.

3.1 Technically suitable engine oils for petrol engines:

Notice:
Viscosity classes with a high viscosity can increase fuel consumption.

Engine	Engine Development code	BMW Longlife-01	BMW Longlife-01 FE	BMW Longlife-04	BMW Longlife-12 FE	BMW Longlife-14 FE+	BMW Longlife-17 FE+	BMW Longlife-19 FE	BMW Longlife-22 FE++	SAE 10W-60
		Please refer to Enclosure 4.	Please refer to Enclosure 5.	Please refer to Enclosure 6.	Please refer to Enclosure 7.	Please refer to Enclosure 8.	Please refer to Enclosure 9.	Please refer to Enclosure 10.	Please refer to Enclosure 11.	see Enclosure 12
2 Cylinder :										
W20		X	X	X ⁽¹⁾				X ⁽¹⁾		
3 Cylinder :										
B32		X	X							
B36		X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38K15T0 without petrol particulate filter ⁽⁴⁾	B38T	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38A12U0 without petrol particulate filter ⁽⁴⁾	B38U	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38A15U0 without petrol particulate filter ⁽⁴⁾										
B38B15M0 without petrol	B38M	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		

[illegible]

B38B15M0 with petrol particulate filter ⁽⁴⁾	B38M			X	X		X	X		
B38A15M0 with petrol particulate filter ⁽⁴⁾										
B38K15T0 with petrol particulate filter ⁽⁴⁾	XB2H			X	X		X	X		
B38A15M0 with petrol particulate filter ⁽⁴⁾										
B38A15M0 with petrol particulate filter ⁽⁴⁾										
B38A15M0 with petrol particulate filter ⁽⁴⁾	XB2			X	X		X	X		
B38A15U1 with petrol particulate filter ⁽⁴⁾	B38B			X	X		X	X		
B38A15M1 with petrol particulate filter ⁽⁴⁾	B38C			X	X		X	X		
B38B15M1 with petrol particulate filter ⁽⁴⁾										
B38A15U2 without petrol particulate filter ⁽⁴⁾	B38L		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38A15M2 without petrol particulate filter ⁽⁴⁾	B38N		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38A15M2 without petrol particulate filter ⁽⁴⁾	XB2H		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B38A15U2 with petrol particulate	B38L				X		X	X		

filter ⁽⁴⁾										
B38A15M2 with petrol particulate filter ⁽⁴⁾	B38N				X		X	X		
B38A15M2 with petrol particulate filter ⁽⁴⁾	XB2H (U06/U11 only)				X		X	X		
4-cylinder:										
B42		X	X							
B46		X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48, with the SA1AE Flexible Fuel		X	X							
B48A20M0 without petrol particulate filter ⁽⁴⁾	B48M	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48B16M0 without petrol particulate filter ⁽⁴⁾										
B48B20M0 without petrol particulate filter ⁽⁴⁾										
B48A20O0 without petrol particulate filter ⁽⁴⁾	B48O	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48B20O0 without petrol particulate filter ⁽⁴⁾										
B48B20M0 without petrol particulate filter ⁽⁴⁾	XB1H	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48B20O0 without petrol particulate filter ⁽⁴⁾										
B48A20M1	B48C	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		

[illegible]

B48B20M0 with petrol particulate filter ⁽⁴⁾	XB1H			X	X		X	X		
B48B20O0 with petrol particulate filter ⁽⁴⁾										
B48A20M1 with petrol particulate filter ⁽⁴⁾	B48C			X	X		X			
B48B20M1 with petrol particulate filter ⁽⁴⁾										
B48A20O1 with petrol particulate filter ⁽⁴⁾	B48D			X	X		X	X		
B48B20O1 with petrol particulate filter ⁽⁴⁾										
B48A20T1 with petrol particulate filter ⁽⁴⁾	B48E			X	X		X	X		
B48B20O1 with petrol particulate filter ⁽⁴⁾	XB1G			X	X		X	X		
B48B20M1 with petrol particulate filter ⁽⁴⁾										
B48A20M2 without petrol particulate filter ⁽⁴⁾	B48N		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48A20O2 without petrol particulate filter ⁽⁴⁾	B48P		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48A20T2 without petrol particulate filter ⁽⁴⁾	B48R		X		X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B48A20M2 with petrol particulate	B48N				X		X	X		

filter ⁽⁴⁾										
B48A20O2 with petrol particulate filter ⁽⁴⁾	B48P				X		X	X		
B48A20T2 with petrol particulate filter ⁽⁴⁾	B48R				X		X	X		
B48B16M2 without petrol particulate filter ⁽⁴⁾	B48N		X		X ⁽¹⁾		X		X	
B48B20M2 without petrol particulate filter ⁽⁴⁾										
B48B20M2 without petrol particulate filter ⁽⁴⁾	XB1A		X		X ⁽¹⁾		X		X	
B48B20O2 without petrol particulate filter ⁽⁴⁾	B48P		X		X ⁽¹⁾		X		X	
B48B16M2 with petrol particulate filter ⁽⁴⁾	B48N				X		X		X	
B48B20M2 with petrol particulate filter ⁽⁴⁾										
B48B20M2 with petrol particulate filter ⁽⁴⁾	XB1A				X		X		X	
B48B20O2 with petrol particulate filter ⁽⁴⁾	B48P				X		X		X	
N12		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N13		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N14		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N16		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N18		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		

N20		X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
N20, with the SA1AE Flexible Fuel		X	X							
N26		X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
N40		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N42		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N43		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N45		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N46		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
M43TU		X		X ⁽¹⁾				X ⁽¹⁾		
M43/CNG				X ⁽¹⁾				X ⁽¹⁾		
W10		X		X ⁽¹⁾				X ⁽¹⁾		
W11		X		X ⁽¹⁾				X ⁽¹⁾		

6-cylinder:

B58B30M0 without petrol particulate filter ⁽⁴⁾	B58M	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B58B30M0 without petrol particulate filter ⁽⁴⁾	XB1H	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B58B30M1 without petrol particulate filter ⁽⁴⁾	B58C	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B58B30O1 without petrol particulate filter ⁽⁴⁾	B58D	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B58B30M1 without petrol particulate filter ⁽⁴⁾	XB1	X	X	X ⁽¹⁾	X ⁽¹⁾	X ⁽⁵⁾	X	X ⁽¹⁾		
B58B30M0 with petrol particulate filter ⁽⁴⁾	B58M			X	X		X	X		

B58B30M0 with petrol particulate filter ⁽⁴⁾	XB1H			X	X		X	X		
B58B30M1 with petrol particulate filter ⁽⁴⁾	B58C			X	X		X	X		
B58B30O1 with petrol particulate filter ⁽⁴⁾	B58D			X	X		X	X		
B58B30M1 with petrol particulate filter ⁽⁴⁾	XB1			X	X		X	X		
B58B30U2 without petrol particulate filter ⁽⁴⁾	B58L		X		X ⁽¹⁾		X		X	
B58B30M2 without petrol particulate filter ⁽⁴⁾	B58N		X		X ⁽¹⁾		X		X	
B58B30U2 without petrol particulate filter ⁽⁴⁾	XB1N		X		X ⁽¹⁾		X		X	
B58B30M2 without petrol particulate filter ⁽⁴⁾										
B58B30U2 with petrol particulate filter ⁽⁴⁾	B58L				X		X		X	
B58B30M2 with petrol particulate filter ⁽⁴⁾	B58N				X		X		X	
B58B30U2 with petrol particulate filter ⁽⁴⁾	XB1N				X		X		X	
B58B30M2 with petrol particulate filter ⁽⁴⁾										
N51		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		

N52		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N53		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N54		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N55		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N56		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
M52		X		X ⁽¹⁾				X ⁽¹⁾		
M54		X		X ⁽¹⁾				X ⁽¹⁾		
M56		X		X ⁽¹⁾				X ⁽¹⁾		
S54										X
S55 without petrol particulate filter ⁽⁴⁾		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
S55 with petrol particulate filter ⁽⁴⁾				X	X			X		
S58 without petrol particulate filter ⁽⁴⁾		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
S58 with petrol particulate filter ⁽⁴⁾				X	X			X		

8-cylinder:

N62		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N63 without petrol particulate filter ⁽⁴⁾		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N63 with petrol particulate filter ⁽⁴⁾				X	X			X		
M62LEV		X		X ⁽¹⁾				X ⁽¹⁾		
S62										X
S63 without petrol		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		

particulate filter ⁽⁴⁾										
S63 with petrol particulate filter ⁽⁴⁾				X	X			X		
S65										X
S68 without petrol particulate filter			X		X ⁽¹⁾			X ⁽¹⁾		
S68 with petrol particulate filter ⁽⁴⁾					X			X		
10-cylinder:										
S85										X
12-cylinder:										
N73		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N74 without petrol particulate filter ⁽⁴⁾		X	X	X ⁽¹⁾	X ⁽¹⁾			X ⁽¹⁾		
N74 with petrol particulate filter ⁽⁴⁾				X	X			X		
M73		X		X ⁽¹⁾				X ⁽¹⁾		
Other engines:										
Other AG engines ⁽²⁾		X		X ⁽¹⁾				X ⁽¹⁾		
Other M engines ⁽³⁾										X

1) For petrol engines, only BMW Longlife-04, BMW Longlife-12 FE and BMW Longlife-19 FE oils are permitted in Europe (EU plus Switzerland, Norway and Liechtenstein). They must not be used outside this area.

2) "Others" includes all AG engines/models which are not listed in the above table, for example M10, M20, M30, M40, M42, M43, M44, M50, M52, M60, M62, M70, M73, etc.

3) "Others" includes all Motorsport engines/models which are not listed in the above table, for example S14, S38, S50, S50U, S52, S70, etc.

4) Vehicles with a petrol engine and petrol particulate filter can be identified on the vacuum hose, which is installed on the petrol particulate filter, as well as on the optional equipment SA1DEA RDE exhaust emissions standard.

5) BMW Longlife-14 FE+ oils are only approved for petrol engines in Europe (EU plus Switzerland, Norway and Liechtenstein), USA and Canada. They must not be used outside this area.

3.2 Technically suitable engine oils for diesel engines:

Engine	Engine Development code	BMW Longlife-01 Please refer to Enclosure 4.	BMW Longlife-04 Please refer to Enclosure 6.	BMW Longlife-12 FE Please refer to Enclosure 7.	BMW Longlife-17 FE+ Please refer to Enclosure 9.	BMW Longlife-19 FE Please refer to Enclosure 10.	SAE 10W-60 see Enclosure 12
3 Cylinder :							
B37C15K0	B37K		X	X		X	
B37D15K0			X	X		X	
B37C15U0	B37U		X	X		X	
B37D15U0			X	X		X	
B37C15K1	B37A		X	X		X	
B37C15U1	B37B		X	X		X	
4-cylinder:							
B47C20U0	B47U		X	X		X	
B47C20O0	B47O		X	X		X	
B47C20T0	B47T		X			X	
B47D20K0	B47K		X	X		X	
B47D20U0	B47U		X	X		X	
B47D20O0	B47O		X	X		X	
B47D20T0	B47T		X			X	
B47C20U1	B47B		X	X		X	
B47C20O1	B47D		X	X		X	
B47C20T1	B47E		X			X	
B47D20U1	B47B		X	X		X	
B47D20O1	B47D		X	X		X	
B47D20T1	B47F		X			X	
B47C20U2	B47L			X	X		
B47C20O2	B47P			X	X		
N47 uL; N47 oL			X			X	
N47 S ⁽⁵⁾							X

N47 S ⁽⁵⁾ (from 9/08)			X			X	
N47C16K1			X	X ⁽⁶⁾		X	
N47C16U1			X	X ⁽⁶⁾		X	
N47C20K1			X	X ⁽⁶⁾		X	
N47C20U1			X	X ⁽⁶⁾		X	
N47D16K1			X	X ⁽⁶⁾		X	
N47D16U1			X	X ⁽⁶⁾		X	
N47D20K1			X	X ⁽⁶⁾		X	
N47D20U1			X	X ⁽⁶⁾		X	
N47D20O1			X	X ⁽⁶⁾		X	
N47D20O1 US			X	X ⁽⁶⁾		X	
N47D20T1			X			X	
M41		X	X			X	
M47, M47TU ⁽⁵⁾		X	X			X	
M47TU ⁽⁵⁾ (from 03/03)		X	X			X	
M47TU2 ^{(1),} ⁽⁵⁾		X ⁽³⁾	X			X	
W16D16			X			X	
W17D14		X	X			X	
6-cylinder:							
B57D30O0	B57O		X	X		X	
B57D30T0	B57T		X			X	
B57D30S0	B57S		X			X	
B57D30O2	B57P		X	X		X	
B57D30T2	B57R		X			X	
B57D30O3	B57X			X		X	
B57D30T3	B57Y			X		X	
N57			X			X	

N57N			X			X	
N57X			X			X	
N57D30O1			X			X	
N57D30O1 US			X	X ⁽⁶⁾		X	
N57D30T1			X			X	
N57D30S1			X			X	
M21		X	X			X	
M51		X	X			X	
M57		X	X			X	
M57TU ⁽⁵⁾ (from 09/02)		X	X			X	
M57TU ⁽⁵⁾ (E60, E61 from 03/04)		X ⁽²⁾	X			X	
M57Top ⁽⁵⁾ (from 09/04)			X			X	
M57TU2 ⁽⁵⁾ (from 03/05)		X ⁽⁴⁾	X			X	
M57TU2Top ⁽⁵⁾ (from 09/06)			X			X	
8-cylinder:							
M67 (E38)		X	X			X	
M67 (E65)		X	X			X	
M67TU (from 03/05)		X ⁽⁴⁾	X			X	

1) In countries where the ambient temperature frequently falls below -20 °C, we recommend the use of 0W instead of 5W products.

2) To increase the service life of the diesel particle filter, Longlife-04 oils are recommended as soon as they are available.

3) Can be used on vehicles without DPF.

4) Recommended for vehicles without DPF and for non-EU countries.

5) TU2 = T2 / TOP = S

6) Valid as from model year 2014