

Enclosure 1 of SI 33 01 96 (149), 08/2018

The following rear axle differential oils are used in vehicles of the BMW Group

Final drive oil	Use in the service
BMW HOK oil	Enclosure 6 of SI 33 01 96 (149)
BMW Synthetics OSP	Enclosure 7 of SI 33 01 96 (149)
Rear axle differential oil MSP/A	Enclosure 8 of SI 33 01 96 (149)
Rear axle differential oil SAF-Carbon Mod	Enclosure 9 of SI 33 01 96 (149)
Rear axle differential oil SAF-XJ Booster	Enclosure 10 of SI 33 01 96 (149)
Rear axle differential oil SAF-XO	Enclosure 7 of SI 33 01 96 (149)
Hypoid Axle Oil G1 (BOT448)	Enclosure 12 of SI 33 01 96 (149)
Hypoid Axle Oil G3 (Fuchs Titan EG 4218)	Enclosure 13 to SI 33 01 96 (149)
Hypoid Axle Oil G4	Enclosure 14 of SI 33 01 96 (149)
Manual gearbox oil MTF 1	Enclosure 8 of SI 23 02 96 (142)

Use of rear axle differential oils

Vehicle	E70 (with QMVH) , F15 (with QMVH) , F16 (with QMVH) , E71, F85, F86	E82 M, E90 M, E92 M, E93 M	E34 M5, E36 Z3 with SA209, E36 Z3 M, E36 with SA209, E36 M3, E39 M5, E46 M3, E60 M5, E61 M5, E63 M6, E64 M6, E85 M, E86 M	F06 M6, F10 M5, F12 M6, F13 M6, F2x (with M Performance differential lock), F3x (with M Performance differential lock), F80, F82, F83, F87	E26 M1	F90, F97, F98, G01 (with SA2T4), G02 (with SA2T4), G05 (with SA2T4), G07 (with SA2T4), G14 (with SA2T4), G15 (with SA2T4), G20 (with SA2T4), G21 (with SA2T4), G29 (with SA2T4), G30 (with SA2T4)	F39, F40, F44, F45, F46, F48, F49, F54, F60	All other vehicles
BMW HOK oil							Hang-on clutch (HOC)	
BMW Synthetics	Basic transmission,							up to 07/2011

OSP	centre							
Rear axle differential oil MSP/A			X	X				
Rear axle differential oil SAF-Carbon Mod	Variable ratio transmission left/right							
Rear axle differential oil SAF-XJ Booster		X						
Rear axle differential oil SAF-XO	Basic transmission, centre							up to 07/2011
Hypoid Axle Oil G1 (BOT448)								From 07/2011
Hypoid Axle Oil G3 (Fuchs Titan EG 4218)								From 07/2011
Hypoid Axle Oil G4						X		
Manual gearbox oil MTF 1					X			

Enclosure 2 of SI 33 01 96 (149), issue 09.1998

The joints of the output shaft are greased for life and are maintenance-free. In the event of repair, the necessary amount of joint grease is enclosed in the "gaiter repair kit".

Enclosure 3 of SI 33 01 96 (149), issue 10.2000

See HG 31 Enclosure 2.0 Grease for wheel bearing

Enclosure 4 to SI 33 01 96 (149), edition 02/2019

See main group 31 enclosure 4.0 Lubricant for rubber mount installation

Enclosure 5 to SI 33 01 96 (149), edition 02/2019

The following grease should be used for greasing the contact surfaces of the flange nut to the bearing inner ring and to the insert nut, and for greasing the face of the drive flange.

The Drei Bond glue is to be used for the threads of the flange nut.

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
Castrol Optitemp HAT LF1	83 23 0 417 754	50g tube
Drei Bond adhesive, type 1385	83 19 0 417 376	50g tube

Enclosure 6 of SI 33 01 96 (149), issue 08/2008; update 08/2018

Trade name BMW part number Container size

BMW HOC oil 83 22 2 413 513 850 ml

Note:

The above oils satisfy the demands required of lifetime oils.

Oil change intervals are given in the vehicle-specific inspection sheets.

Before opening the container, "mix" the oil to distribute the additives evenly through the oil.

Oil additives

All transmissions are designed in such a way that there is absolutely no need to use oil additives. BMW is totally against the use of such additives. We will also accept no liability for any consequences resulting from the use of additives.

Enclosure 7 of SI 33 01 96 (149), issue 08/2008; update 08/2018

<i>Trade name</i>	<i>BMW part number</i>	<i>BMW part number</i>	<i>Container size</i>
	China	Rest of the world	
BMW Synthetik OSP / rear axle differential oil SAF-XO		83 22 2 365 987	1000 ml
BMW Synthetik OSP / rear axle differential oil SAF-XO		83 22 9 407 768	60-litre barrel
BMW Synthetik OSP / rear axle differential oil SAF-XO	83 22 2 148 570		12x1 litre

Note:

The above oils satisfy the demands required of lifetime oils.

Oil change intervals are given in the vehicle-specific inspection sheets.

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Oil additives

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Enclosure 8 of SI 33 01 96 (149), issue 06/2006, update 08/2018

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
BMW rear axle differential oil MSP/A	83 22 2 365 988	1 litres

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Rear axle differential oils approved by name

<i>Trade name</i>	<i>Manufacturer/Supplier</i>
Castrol SAF-XJ	Castrol
Castrol Syntrax Limited Slip 75W-140	Castrol
MOTUL HYPO SYNT LS	Motul
Mobil transmission oil VS 500	Mobil
Aral transmission oil BS-LSX	Aral
BP Energear SHX-ZR	BP
Avia Hypoid 75W--140 LSX	AVIA
Agip HLZ	Agip
FINA PONTONIC MLK	Fina
Shell transmission oil ZLS-BMW	Shell
Wintershall gear fluid BMS Plus	Schmierstoffraffinerie Salzbergen GmbH
Westfalen Fugo BMS	Westfalen AG

Enclosure 9 of SI 33 01 96 (149), issue 09/2008; update 02/2017

<i>Trade name</i>	<i>BMW part number</i>	<i>BMW part number</i>	<i>Container size</i>
	China	Rest of the world	
BMW rear axle differential oil SAF-Carbon Mod	83 12 0 446 012	83 12 0 445 832	3 x 500 ml

Note:

The above oils satisfy the demands required of lifetime oils.

Oil change intervals are given in the vehicle-specific inspection sheets.

Before opening the container, "mix" the oil to distribute the additives evenly through the oil.

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Enclosure 10 of SI 33 01 96 (149), issue 06/2006, update 08/2018

<i>Trade name</i>	<i>BMW part number</i>	<i>BMW part number</i>	<i>Container size</i>
	China	Rest of the world	
BMW rear axle differential oil SAF-XJ Booster	83 21 2 155 243	83 22 2 282 583	3x500 ml

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Enclosure 7 of SI 33 01 96 (149), issue 08/2008; update 08/2018

<i>Trade name</i>	<i>BMW part number</i>		<i>Container size</i>
	<i>China</i>	<i>Rest of the world</i>	
BMW Synthetik OSP / rear axle differential oil SAF-XO		83 22 2 365 987	1000 ml
BMW Synthetik OSP / rear axle differential oil SAF-XO		83 22 9 407 768	60-litre barrel
BMW Synthetik OSP / rear axle differential oil SAF-XO	83 22 2 148 570		12x1 litre

Note:

The above oils satisfy the demands required of lifetime oils.

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Enclosure 12 of SI 33 01 96 (149), issue 08/2008; update 08/2018

Trade name	BMW part number	Container size
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Hypoid Axle Oil G1 (BOT448)	83 22 2 295 532	3 x 500 ml
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Enclosure 13 to SI 33 01 96 (149), issue 08/2008; update 08/2018

Trade name	BMW part number	BMW part number	Container size
	China	Rest of the world	
Hypoid Axle Oil G3 (Fuchs Titan EG 4218)	83 22 2 459 097	83 22 2 413 512	3 x 500 ml

Note:

The above oils satisfy the demands required of lifetime oils.

The oil service intervals are given in the vehicle-specific inspection sheets.

Before opening the container, "mix" the oil to distribute the additives evenly through the oil.

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Enclosure 14 of SI 33 01 96 (149), issue 08/2008; update 08/2018

Trade name	BMW part number	Container size
Hypoid Axle Oil G4	83 22 2 447 362	3 x 500 ml

Note:

The above oils satisfy the demands required of lifetime oils.

Oil change intervals are given in the vehicle-specific inspection sheets.

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Enclosure 8 of SI 23 02 96 (142), issue 08/2018

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
Manual gearbox oil MTF 1	81 22 2 339 384	1-litre canister

Note:

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