

Enclosure 1 of SI 31 02 96 (147), 08/2018

The following front axle transmission oils are used in vehicles of the BMW Group

Front axle transmission oil	Use in the service
BMW Synthetics OSP	Enclosure 7 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 G2	Enclosure 8 of SI 31 02 96 (147)

Use of front axle transmission oils

Vehicle	E53, E83 (without N46)	All other vehicles
BMW Synthetics OSP	X	
Rear axle differential oil SAF-XO	X	
Hypoid Axle Oil G1 (BOT448)	X	
Hypoid Axle Oil G2		X

Enclosure 2 of SI 31 02 96 (147), issue 01.12.1996

High-temperature multipurpose grease consists of a lithium complex soap in a mineral oil raffinate in combination with select additive combinations. The soap is contained in the oil with a very fine distribution and virtually serves as a structure.

This lubricating grease has the following quality features:

- Thermally very durable and operatively stable

At operating temperatures of minus 30° C to plus 150° C in continuous operation as well as high load, the structure and consistency must be maintained over a long service life.

- Oxydation-resistant

To prevent oxidation at high operating temperature, lubricating grease contains effective inhibitors (inhibitors that limit or prevent chemical processes).

- Water-resistant and corrosion-preventing

The high-temperature multipurpose greases are resistant against water. At the same time, the greased components are optimally protected by corrosion inhibitors against corrosive effects.

Enclosure 3 of SI 31 02 96 (147), issue 08/2018

Taper roller bearing

High-temperature multipurpose grease is used to grease the taper roller bearing.

Grease filling in the wheel hub 50 g and in the wheel hub protective cap 20 g per wheel.

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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UNIREX N3	83 19 2 160 349	400 ml
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The wheel hub protective caps must always be replaced and glued into the wheel hubs during installation with the following adhesive.

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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Loctite No. 638	81 22 9 407 420	50 ml tube
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Angular-contact ball bearing unit

Bearing unit lubricated for life, cannot be dismantled, no re-greasing possible.

Grooved ball bearing (rear axle) E12, E21, E23, E24 up to mod. 5.82

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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UNIREX N3	83 19 2 160 349	400 ml
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Enclosure 4 to SI 31 02 96 (147), edition 02/2019

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
Installation aid (Circo Light)	83 19 2 405 829	250 ml

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.

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>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
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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
Hypoid Axle Oil G1 (BOT448)	83 22 2 295 532	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.

Oil additives

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Enclosure 8 of SI 31 02 96 (147), issue 01.12.1996 / update 08/2018

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
Hypoid Axle Oil G2	83 22 2 413 511	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.

Oil additives

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