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Enclosure 4 to SI 32 03 96 (148), edition 02/2005

4.0 ZF power-assisted recirculating ball steering with H 31 unit

The oils for BMW models with power steering and a brake-power-boosting H 31 unit are identical with the oils for power steering gears without H 31 unit.

The following exceptions apply:

- All models with recirculating self-levelling suspension, AHK (active rear-axle kinematics) or EH lock and common oil reservoir in the engine compartment (see Group 37)
- E32/M60 and E34/M60

Models for countries with low outside temperatures (Finland, Norway, Sweden and Canada).

These models are filled with Pentosin CHF 11S.

If repairs are carried out on these models or the oil level needs to be topped up, the hydraulic fluid Pentosin CHF 11S can be ordered from the BMW Parts Service:

Trade name	BMW part number	Container size
Pentosin CHF 11S	81 22 9 407 758	1-litre can

CHF and ATF oils must not be mixed. The oil types are indeed compatible, but if there is more of the one type in the steering gear than the other, this adversely affects the properties of the other oil. It is permissible to mix Pentosin CHF 4548 with CHF 7.1 - *except on the E32 with recirculating self-levelling suspension!*

Therefore, the hydraulic system for steering and brake-power assistance must be drained as completely as possible when changing from one type of oil to the other.

All oil reservoirs will in future be marked with the oil type used - ATF or CHF 11.