

## VOITH Retarder Oil requirements & change intervals

Oil class	A	B	C
<b>Truck Category 1</b>	90,000 km 120,000 km (VR 3250 only)	135,000 km	180,000 km
<b>Truck Category 2</b>	65,000 km 50,000 km (VR115HR only)	90,000 km	135,000 km
<b>Truck Category 3</b>	45,000 km	65,000 km	90,000 km
<b>Bus Category 1</b>	135,000 km	180,000 km	240,000 km 300,000 (VR115E only)
<b>Bus Category 2</b>	90,000 km	120,000 km	160,000 km
<b>Bus Category 3</b>	65,000 km	90,000 km	135,000 km
<b>LIQUI MOLY recommended oil</b>	SHPD 15W-40 THT 15W-40; 10W-30 THT 10W or THT HD 30	HGV Longlife 10W-40 HGV Longlife FE 5W-30	High-perf. gear oil GL3+ 75W-80

### Category 1:

- Long-haul transport
- Intercity passenger transport
- Highway travel in excess of 80 % of journey
- Climatic conditions as in central Europe
- Total vehicle weight up to 44 t.

### Category 2:

- Scheduled traffic, distribution traffic, local passenger transport, stop & go
- Highway travel in excess of 50 % of journey
- Proportion of time spent in urban traffic over 50 %

### Category 3:

- Regions with higher temperatures than in central Europe
- Frequent use at altitudes greater than 1,500 m (4,920 feet)
- Routes with a high proportion of inclines
- Building sites and timber trucks



Other facts that could result in the oil aging prematurely must be taken into consideration on a case-by-case basis. The change intervals will then need to be shortened accordingly. If shorter maintenance intervals are specified for a vehicle, the change intervals given above can be shortened.

For retarder type VR 115 HR (VR 115 TS), use only Touring High Tech HD10 or Touring High Tech SAE30 single-grade motor oils.