

## Mineral Lubricant for Voith Retarders. VR Fluid



### **VR Fluid is a special mineral lubricant for Voith Retarders.**

Lubricant acquires fundamental importance when speaking of Voith Retarders.

All braking power is transmitted to the oil which as a consequence is subject to high thermal and mechanical strain.

Continuous warming cycles are detrimental to the fluid, which resistance and stability are essential to ensure first-rate performances during all operating time. VR Fluid contributes substantially to preserve an excellent performances of Voith Retarders.

### **Chemical and physical features**

SAE Viscosity grade	20W20
Kinematic viscosity at 100° C	9.1 cSt
Viscosity index	121
Flash point (C.O.C)	200° C

## Additives

- High antirust and anticorrosive properties
- First-rate antifoam properties

## Maintenance (Oil change intervals by milage in km; but after 2 years at the latest)

	Bus	Truck
<b>Profile 1</b>	135 000 Km	90 000 / 120 000* Km
<b>Profile 2</b>	90 000 Km	65 000 Km
<b>Profile 3</b>	65 000 Km	45 000 Km

\* only for Retarder VR 3250 installed into Volvo and Renault trucks

## Determination of applications category

Application profile	Total weight of vehicle	Application category
<ul style="list-style-type: none"><li>• Long-distance traffic</li><li>• Long-distance passenger traffic</li><li>• Distances covered on Interstates over 80 %</li><li>• Climatic conditions similar to Central Europe</li></ul>	up to 44 t	<b>Profile 1</b>
	up to 50 t	<b>Profile 2</b>
	over 50 t	<b>Profile 3</b>
<ul style="list-style-type: none"><li>• Regular services, distribution services, local passenger transport - stop &amp; go</li><li>• Distances covered on Interstates over 50 %</li><li>• Share of time travelled in city traffic over 50 %</li></ul>	up to 44 t	<b>Profile 2</b>
	up to 50 t	<b>Profile 2</b>
	over 50 t	<b>Profile 3</b>
<ul style="list-style-type: none"><li>• Areas with higher average outside temperatures than in Central Europe</li><li>• Frequent use in altitudes above 1500 m above sea level</li><li>• Distances with a high gradient share</li><li>• Construction vehicles and timber trucks</li></ul>	up to 44 t	<b>Profile 3</b>
	up to 50 t	<b>Profile 3</b>
	over 50 t	<b>Profile 3</b>

## Approvals

Voith Retarder class A

## Package & Code

### VR Fluid is available in the following packaging:

<b>Tank</b>	q.ty 1 000l	cod. Voith 301 505 178
<b>Drum</b>	q.ty 209l	cod. Voith 301 505 177
<b>Bucket</b>	q.ty 25l	cod. Voith 301 505 176
<b>Can</b>	q.ty 5l	cod. Voith 301 505 175

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