

## Voith Retarder

### List of Approved Oils

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2022-08-04

153.00455716en, Protection Class 0: public

# Contact

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This document describes the product design state at the time of the editorial deadline on 2022-08-04

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# Changes

| Revision | Pages and contents revised   |
|----------|--|
| 1.0      | Revision of layout and of oil selection list   |
| 2.0      | New: REPSOL 10W-40; Oil Class B  |
| 3.0      | Updating of the approved oil in chapter 1.4; QR code was added   |
| 4.0      | <p><b>Following oils were added:</b></p> <ul style="list-style-type: none"> <li>- Mobil Delvac XHP ESP S 10W-40; Oil Class B</li> <li>- Voith Fluid S long lasting 10W-40; Oil Class B</li> </ul> <p><b>Following oils have been deleted:</b></p> <ul style="list-style-type: none"> <li>- Mobil Delvac XHP ESP 10W-40; Oil Class B</li> <li>- Shell Rimula R6 M 10W-40; Oil Class B</li> <li>- Shell Rimula R5 LE 10W-30; Oil Class B</li> <li>- Shell Rimula R3 10W; Oil Class A</li> <li>- Shell Rimula R2 Multi 10W-30; Oil Class A</li> <li>- Shell Rimula R2 10W; Oil Class A</li> <li>- SRS Cargolub TFF 10W-40; Oil Class A</li> <li>- Svenska Statoil GearWay S4 V 75W-80; Oil Class C</li> <li>- Total Rubia TIR 8900 FE 10W-30; Oil Class B</li> <li>- Total Quartz Ineo MC3 5W-30; Oil Class B</li> <li>- Total Quartz Future 9000 5W-30; Oil Class B</li> <li>- Total Quartz 9000 5W-40; Oil Class A</li> <li>- Voith VR Fluid RED S 75W-80; Oil Class C</li> </ul> |

| Revision | Pages and contents revised   |
|----------|--|
| 5.0      | <p><b>Following oils were added:</b></p> <ul style="list-style-type: none"> <li>- AVIA AG; Multi LSP Extra; 10W-40; Oil Class B</li> <li>- AVIA AG; Heavyline LSP Giga; 5W-30; Oil Class B</li> <li>- Finke Mineralölwerk GmbH; Aviaticon Turbo D; 10W-40; Oil Class A</li> <li>- Finke Mineralölwerk GmbH; Aviaticon Finko Super Truck LA Plus; 10W-40; Oil Class B</li> <li>- Gulf Oil International; Syngear LL; 75W-80; Oil Class C</li> <li>- PUMA Energy International; Unisynth Trans 30; 75W-80; Oil Class C</li> <li>- Renault Truck Oils; Longevia BZV Eco; 75W-80; Oil Class C</li> <li>- Shell Global Solutions; Spirax S6 GXME Ultra; 75W-80; Oil Class C</li> <li>- Sinopec Lubricant CO., LTD; Tulux L1500; 10W-40; Oil Class B</li> <li>- SRS Schmierstoff Vertrieb GmbH; Turbo-Rekord top FE; 10W-40; Oil Class B</li> <li>- Total Lubrifiants S. A.; Rubia TIR 9200 FE; 5W-30; Oil Class A</li> <li>- Total Lubrifiants S. A.; Longevia BZV Eco; 75W-80; Oil Class C</li> <li>- Total Lubrifiants S. A.; Transmission Gear 9 FE; 75W-80; Oil Class C</li> </ul> <p><b>Following oils have been deleted:</b></p> <ul style="list-style-type: none"> <li>- BP plc.; Vanellus Max Eco; 10W-40; Oil Class B</li> <li>- Castrol Ltd.; Enduron Low SAPS; 10W-40; Oil Class B</li> <li>- ExxonMobil; Delvac 1 LE; 5W-30; Oil Class B</li> <li>- ExxonMobil; Delvac XHP Ultra; 5W-30; Oil Class B</li> <li>- Fuchs; Tltan Cargo Pro Gas; 5W-30; Oil Class B</li> </ul> |

| Revision | Pages and contents revised   |
|----------|--|
| 6.0      | <p><b>Following oils were added:</b></p> <ul style="list-style-type: none"> <li>- Shell; HD 1645; 5W-30; Oil Class B</li> <li>- Total Lubrifiants S. A.; Traxium Gear 9 FE; 75W-80; Oil Class C</li> <li>- Voith Turbo S.r.l.; VR Fluid Plus; 75W-80; Oil Class C</li> </ul> <p><b>Following oils have been deleted:</b></p> <ul style="list-style-type: none"> <li>- Bucher AG Langenthal; MOTOREX NEXUS FE SAE; 5W-30; Oil Class B</li> <li>- ExxonMobil; Delvac 1; 5W-40; Oil Class B</li> <li>- ExxonMobil; Mobiltrans SHC V 30; 75W-80; Oil Class C</li> <li>- Shell; Rimula R6 ME; 5W-30; Oil Class B</li> <li>- Valvoline EMEA; SynGard IS; 75W-80; Oil Class C</li> <li>- Valvoline EMEA; Valvoline Heavy duty Gear Oil pro; 75W-80; Oil Class C</li> <li>- Voith Turbo S.r.l.; VR Fluid BLU S5; 75W-80; Oil Class C</li> <li>- Voith Turbo Power Transmission; Voith Fluid S long lasting; 10W-40; Oil Class B</li> </ul> <p><b>Following oils have been changed:</b></p> <ul style="list-style-type: none"> <li>- Bucher AG Langenthal; MOTOREX UNISYNT VT SAE; 75W-80; Oil Class C<br/>changed to</li> <li>- Motorex AG; MOTOREX UNISYNT VT SAE; 75W-80; Oil Class C</li> <li>- Shell Global Solutions; Shell Spirax S6 GXME Ultra 75W-80; 75W-80; Oil Class C<br/>changed to</li> <li>- Shell; Shell Spirax S6 GXME Ultra 75W-80; 75W-80; Oil Class C</li> </ul> |

| Revision | Pages and contents revised   |
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| 7.0      | <p><b>Added in</b> → Page 1-3, Chapter 1.2:</p> <ul style="list-style-type: none"> <li>- Index "9" for VR 115CT</li> </ul> <p><b>Following oils have been deleted:</b></p> <ul style="list-style-type: none"> <li>- Aral; Turboral; 20W-20; Oil Class A</li> <li>- Cepsa; EUROTECH LS 10W40 PLUS; 10W-40; Oil Class B</li> <li>- Cepsa; EUROTRANS SHPD; 5W-30; Oil Class B</li> <li>- Chevron Lubricants; Delo 400 LE Synthetic; 5W-30; Oil Class B</li> <li>- Chevron Lubricants; Delo 400 LE Synthetic; 5W-40; Oil Class A</li> <li>- Chevron Lubricants; Delo 400 XLE Synthetic; 5W-30; Oil Class B</li> <li>- Chevron Products Company; Multigear MTF HD; 75W-80; Oil Class C</li> <li>- MOTUL; TEKMA ULTIMA +; 10W-40; Oil Class B</li> <li>- MOTUL SA; Motul Gear Synth FE; 75W-80; Oil Class C</li> <li>- Öl-Brack AG; Midland VR-gear; 75W-80; Oil Class C</li> <li>- Petronas Lubricants International; URANIA FE LS; 5W-30; Oil Class B</li> <li>- Smeermiddelen Industrie De Oliebron BV; Tor Turbosynth LSP Plus; 10W-40; Oil Class B</li> <li>- SRS Schmierstoff Vertrieb GmbH; SRS Getriebefluid MTS; 75W-80; Oil Class C</li> <li>- Tamoil Italia S.p.A.; Tamoil Diesel Top Performance FE; 5W-30; Oil Class B</li> <li>- Tamoil Italia S.p.A.; Tamoil Diesel Ultra FE; 10W-40; Oil Class B</li> <li>- TOTAL - Total Lubrifiants S.A.; Elf Evolution Full-Tech LLX; 5W-30; Oil Class B</li> <li>- TOTAL - Total Lubrifiants S.A.; Elf Evolution 900 SXR; 5W-30; Oil Class B</li> <li>- TOTAL - Total Lubrifiants S.A.; Elf Performance Experty; 10W-40; Oil Class A</li> <li>- TOTAL - Total Lubrifiants S.A.; Elf Performance Experty LSX; 10W-40; Oil Class B</li> <li>- TOTAL - Total Lubrifiants S.A.; Rubia TIR 8600; 10W-40; Oil Class A</li> <li>- TOTAL - Total Lubrifiants S.A.; Rubia TIR 8900; 10W-40; Oil Class B</li> <li>- TOTAL - Total Lubrifiants S.A.; TRANSMISSION GEAR 9 FE; 75W-80; Oil Class C</li> <li>- TOTAL - Total Lubrifiants S.A.; TRANSMISSION GEAR 9V FE (Transmission XSV FE); 75W-80; Oil Class C</li> <li>- YORK SAS; York 1147 SAE 10W40; 10W-40; Oil Class B</li> <li>- YORK SAS; York 1147 SAE 5W30; 5W-30; Oil Class B</li> </ul> |

| Revision            | Pages and contents revised  |
|---------------------|---|
| 7.0<br>Continuation | <p><b>Following oils were added:</b></p> <ul style="list-style-type: none"> <li>- AVIA AG; HEAVYLINE PLUS; 10W-40; Oil Class A</li> <li>- ExxonMobil; Mobil Delvac Modern Super Defense V1; 10W-40; Oil Class A</li> <li>- Shell; Rimula R6 M; 10W-40; Oil Class B</li> <li>- SRS Schmierstoff Vertrieb GmbH; Cargolub TFG ultra; 10W-40; Oil Class B</li> <li>- SRS Schmierstoff Vertrieb GmbH; Cargolub TLA plus; 10W-40; Oil Class B</li> <li>- Volvo; Transmission Oil 97307 p/n 85136277/-78; 75W-80; Oil Class C</li> </ul> <p><b>Following oil have been changed:</b></p> <p>LUKOIL Lubricants Europe Oy; LUKOIL TRANSMISSION SYNTH MPX; 75W-80; Oil Class C<br/>changed to<br/>OOO "LLK-International"; LUKOIL TRANSMISSION SYNTH MPX; 75W-80; Oil Class C</p> <p>REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.; REPSOL DIESEL TURBO UHPD MID SAPS; 10W-40; Oil Class B<br/>changed to<br/>REPSOL DIESEL TURBO UHPD MID SAPS; REPSOL GIANT 9630 LS-LL; 10W-40; Oil Class B</p> <p>Shell; Shell HD 1645; 5W-30; Oil Class B<br/>changed to<br/>Shell; Shell Rimula R6 ME Extra; 5W-30; Oil Class B</p> <p>Total; Longevia BZV Eco; 75W-80; Oil Class C<br/>changed to<br/>TotalEnergies Lubrifiants; Longevia BZV Eco; 75W-80; Oil Class C</p> <p>Total; Rubia TIR 9200 FE; 5W-30; Oil Class A<br/>changed to<br/>TotalEnergies Lubrifiants; Rubia TIR 9200 FE; 5W-30; Oil Class A</p> |

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# 1 List of Approved Oils

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## Notice



### **The list of approved oils is permanently updated.**

With each updating of the list of approved oils, the version number changed by 1. Only the list of approved oils with the highest index is valid. All previous versions of the list of approved oils are no longer valid.

The current and binding list of approved oils can be found in the **Voith Service Information System, Retarder I VIAB I Compressor** or under:

[www.voith.com/brochures/153.004557xx](http://www.voith.com/brochures/153.004557xx)

In case that you do not have an internet access, please contact directly our Support or the respective Voith national representative.

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1CZ\_9000

Fig. 1-1 QR code of the current list of approved oils

## 1.1 Determination of application category

| Application profile  | Total weight of vehicle | Application category |
|--|-------------------------|----------------------|
| <ul style="list-style-type: none"> <li>Long-distance traffic</li> <li>Interurban passenger transport</li> <li>Distances driven on motorways above 80 %</li> <li>Climatic conditions as in Central Europe</li> </ul>  | up to 44 t              | <b>1</b>             |
|  | up to 50 t              | <b>2</b>             |
|  | above 50 t              | <b>3</b>             |
| <ul style="list-style-type: none"> <li>Regular line service, distribution transport, public transport - stop &amp; go</li> <li>Distances driven on motorways above 50 %</li> <li>Portion of time driven in city traffic greater than 50 %</li> </ul>   | up to 44 t              | <b>2</b>             |
|  | up to 50 t              | <b>2</b>             |
|  | above 50 t              | <b>3</b>             |
| <ul style="list-style-type: none"> <li>Regions with higher outside temperatures on average than in Central Europe</li> <li>Frequent use in altitudes over 1500 m above sea level</li> <li>Routes with a high portion of gradients</li> <li>Vehicles at construction sites and timber trucks</li> </ul> | up to 44 t              | <b>3</b>             |
|  | up to 50 t              | <b>3</b>             |
|  | above 50 t              | <b>3</b>             |

### Important information:

Only the lubricants released and listed in the attachment may be used for Voith retarder operation.

If an oil shall be used which is not listed, please contact Voith for suitability and release. If shorter maintenance intervals are specified by the vehicle manufacturer (OEM), these are to be complied with.

Other factors which can influence a premature aging of the oil shall be regarded individually and the change intervals be shortened accordingly.

The operator has to ensure a correct oil level in the retarder between the oil change intervals.

Only the single-grade engine oils indicated in the annex may be used for Retarder type VR 115 HR.

### Note for lubricant suppliers:

Please inform Voith Turbo, Retarder Engineering, immediately in case of changes in the composition (formulation, change of oil code) or the brand name of the released product:

**RetarderOil@voith.com**

## 1.2 Oil change intervals for trucks

|  | Oil class  |                     |                      |
|--|--|---------------------|----------------------|
|  | A  | B                   | C                    |
| <b>Application category</b><br>→ Page 1-2, Chapter 1.1 | <b>Mileage in km, however, after 2 years at the latest</b> |                     |                      |
| <b>1</b>   | 90000 <sup>1)</sup>  | 135000              | 180000 <sup>2)</sup> |
| <b>2</b>   | 65000 <sup>3)</sup>  | 90000 <sup>9)</sup> | 135000 <sup>4)</sup> |
| <b>3</b>   | 45000  | 65000               | 90000 <sup>5)</sup>  |

## 1.3 Oil change intervals for busses

|  | Oil class  |        |                        |
|--|--|--------|------------------------|
|  | A  | B      | C                      |
| <b>Application category</b><br>→ Page 1-2, Chapter 1.1 | <b>Mileage in km, however, after 2 years at the latest</b> |        |                        |
| <b>1</b>   | 135000   | 180000 | 240000 <sup>6)7)</sup> |
| <b>2</b>   | 90000  | 120000 | 180000 <sup>8)</sup>   |
| <b>3</b>   | 65000  | 90000  | 135000                 |

|    |          |           |
|----|----------|-----------|
| 1) | VR 3250  | 120000 km |
| 2) | VR 3250  | 200000 km |
| 3) | VR 115HR | 50000 km  |
| 4) | VR 3250  | 150000 km |
| 5) | VR 3250  | 100000 km |
| 6) | VR 115E  | 300000 km |
| 7) | VR 3250  | 300000 km |
| 8) | VR 3250  | 200000 km |
| 9) | VR 115CT | 100000 km |

## 1.4 List of oils



### Notice

(1) : For fields of application, frequently with minus temperatures ( $T < -10^{\circ} \text{C}$ ) / halving of oil change interval (oil class A)

| Producer / supplier       | Product designation                         | SAE class | Oil class        |
|---------------------------|---|-----------|------------------|
| Voith Turbo S.r.l.        | VR Fluid                                    | 20W-20    | A                |
| Voith Turbo S.r.l.        | VR Fluid S                                  | 10W-40    | B                |
| Voith Turbo S.r.l.        | VR Fluid Plus                               | 75W-80    | C                |
| Aral AG                   | Transmission Oil SNS-B                      | 75W-80    | C                |
| Aral AG                   | Turboral                                    | 10W       | A <sup>(1)</sup> |
| AVIA AG                   | Avia HEAVYLINE LSP Giga                     | 5W-30     | B                |
| AVIA AG                   | Avia HEAVYLINE PLUS Plus 10W-40             | 10W-40    | A                |
| AVIA AG                   | Avia Multi LSP Extra                        | 10W-40    | B                |
| AVIA Mineralöl-AG, Munich | Turbosynth CFE                              | 10W-40    | A                |
| AVIA Mineralöl-AG, Munich | Turbosynth Low SAPS                         | 10W-40    | B                |
| BASF SE                   | Emgard MTF 4200                             | 75W-80    | C                |
| BASF SE                   | Emgard MTF 4230                             | 75W-80    | C                |
| Castrol Ltd.              | Castrol Vecton Long Drain 10W-40 LS         | 10W-40    | B                |
| Castrol Ltd.              | Tection Monograde                           | 10W       | A <sup>(1)</sup> |
| Cepsa                     | MAN Mega Gear                               | 75W-80    | C                |
| Chevron Lubricants        | Delo 400 XLE HD SAE 10W-40                  | 10W-40    | B                |
| Chevron Lubricants        | Ursa Premium FE                             | 5W-30     | B                |
| Chevron Products Company  | Delo Syn-AMT XV SAE 75W-80                  | 75W-80    | C                |
| Chevron Products Company  | Delo Syn-Trans XV SAE 75W-80                | 75W-80    | C                |
| Chevron Products Company  | Ursa Synthetic MTF HD SAE 75W-80            | 75W-80    | C                |
| Engen Petroleum Ltd       | Engen Gearlube SPL VR                       | 75W-80    | C                |
| Eurol bv                  | Eurol HPX VC                                | 75W-80    | C                |
| ExxonMobil                | Mobil Delvac 1 Transmission Fluid V30       | 75W-80    | C                |
| ExxonMobil                | Mobil Delvac Modern 10W-40 Super Defense V1 | 10W-40    | A                |
| ExxonMobil                | Mobil Delvac XHP ESP S                      | 10W-40    | B                |
| ExxonMobil                | Mobil Delvac XHP Extra                      | 10W-40    | A                |
| ExxonMobil                | Mobil Delvac XHP LE                         | 10W-40    | A                |
| ExxonMobil                | Mobil Delvac XHP Ultra LE                   | 5W-30     | B                |
| Finke Mineralölwerk GmbH  | Aviaticon Turbo D                           | 10W-40    | A                |

| <b>Producer / supplier</b>                 | <b>Product designation</b>          | <b>SAE class</b> | <b>Oil class</b> |
|--|-------------------------------------|------------------|------------------|
| Finke Mineralölwerk GmbH                   | Aviaticon Finko Super Truck LA Plus | 10W-40           | B                |
| Fuchs Petrolub SE                          | Titan Cargo SL                      | 5W-30            | B                |
| Fuchs Petrolub SE                          | Titan Unimax Plus MC                | 10W-40           | A                |
| Fuchs Petrolub SE                          | Titan Unimax Ultra MC               | 10W-40           | A                |
| Fuchs Petrolub SE                          | Titan Universal HD                  | 20W-20           | A                |
| Gulf Oil International                     | Gulf Syngear LL, SAE 75W-80         | 75W-80           | C                |
| Hermann Bantleon GmbH                      | AVILUB VR                           | 20W-20           | A                |
| Jiangsu Lopal Tech Co., Ltd.               | LOPAL                               | 10W-40           | B                |
| Kuwait Petroleum                           | Q8 Super Gear V                     | 75W-80           | C                |
| Kuwait Petroleum                           | Q8 Super Gear M                     | 75W-80           | C                |
| OOO "LLK-International"                    | LUKOIL TRANSMISSION SYNTH MPX       | 75W-80           | C                |
| Mabanol GmbH & Co. KG                      | Mabanol Argon Truck Blue            | 10W-40           | B                |
| Mercedes-Benz Australia / Pacific Pty Ltd. | Alliance AFM E9/E7/E6               | 10W-40           | B                |
| MOL-LUB Kft                                | MOL Dynamic Mistral                 | 5W-30            | B                |
| MOTOREX AG                                 | MOTOREX UNISYNT VT SAE              | 75W-80           | C                |
| MOTUL                                      | Tekma Optima                        | 5W-30            | B                |
| PANOLIN AG                                 | PANOLIN ECOMOT                      | 5W-30            | B                |
| PETROGAL S.A.                              | GALP GALAXIA EXTREME                | 5W-30            | B                |
| PETROGAL S.A.                              | GALP GALAXIA EXTREME SUPRA          | 5W-30            | B                |
| PETROGAL S.A.                              | GALP GALAXIA ULTRA PLENUS           | 10W-40           | B                |
| Puma Energy International                  | Puma Unisynth Trans SAE 30          | 75W-80           | C                |
| Renault Truck Oils                         | Extensia FP                         | 10W-40           | B                |
| Renault Truck Oils                         | Longevia BXI Eco                    | 75W-80           | C                |
| Renault Truck Oils                         | Longevia BZV Eco                    | 75W-80           | C                |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.  | REPSOL GIANT 9630 LS-LL             | 10W-40           | B                |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.  | REPSOL DIESEL TURBO VHPD MID SAPS   | 5W-30            | B                |
| Shell                                      | Shell Rimula R6 M                   | 10W-40           | B                |
| Shell                                      | Shell Rimula R6 ME Extra            | 5W-30            | B                |
| Shell                                      | Shell Spirax S6 GXME Ultra 75W-80   | 75W-80           | C                |
| Sinopec Lubricant CO., Ltd.                | Sinopec Tulux L1500 10W-40          | 10W-40           | B                |
| SRS Schmierstoff Vertrieb GmbH             | SRS Cargolub TFE                    | 10W-40           | A                |
| SRS Schmierstoff Vertrieb GmbH             | SRS Cargolub TFX                    | 10W-40           | A                |
| SRS Schmierstoff Vertrieb GmbH             | SRS Cargolub TFG ultra              | 10W-40           | B                |

| <b>Producer / supplier</b>     | <b>Product designation</b>   | <b>SAE class</b> | <b>Oil class</b> |
|--------------------------------|--|------------------|------------------|
| SRS Schmierstoff Vertrieb GmbH | SRS Cargolub TLA   | 10W-40           | B                |
| SRS Schmierstoff Vertrieb GmbH | SRS Cargolub TLA plus  | 10W-40           | B                |
| SRS Schmierstoff Vertrieb GmbH | SRS Cargolub TLS plus  | 5W-30            | B                |
| SRS Schmierstoff Vertrieb GmbH | SRS Turbo-Rekord top FE  | 10W-40           | B                |
| TotalEnergies Lubrifiants      | Longevia BZV Eco   | 75W-80           | C                |
| TotalEnergies Lubrifiants      | Rubia TIR 9200 FE  | 5W-30            | A                |
| TOTAL - Total Lubrifiants S.A. | Traxium Gear 9 FE  | 75W-80           | C                |
| Volvo                          | Volvo Semi Synthetic Diesel Engine Oil<br>VDS-3 p/n 85102467/-8/-9 | 10W-40           | B                |
| Volvo                          | Volvo Transmission Oil 97307 p/n<br>85136277/-78                   | 75W-80           | C                |

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