

## Voith Retarder

### List of approved oils

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# Contact

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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>The following oils were added newly:</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>The following oils were 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>The 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>The following oils were 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; Titan Cargo Pro Gas; 5W-30; Oil Class B</li> </ul>

Revision	Pages and contents revised
6.0	<p><b>The following oils were added:</b></p> <ul style="list-style-type: none"> <li>• Shell; HD 1645; 5W-30; Oil Class 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>The following oils were 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>The following oils were changed:</b></p> <ul style="list-style-type: none"> <li>• Bucher AG Langenthal; MOTOREX UNISYNT VT SAE; 75W-80; Oil class C changed to 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 changed to Shell; Shell Spirax S6 GXME Ultra 75W-80; 75W-80; Oil Class C</li> </ul>

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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> → 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	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> → 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 115 HR	50000 km
4)	VR 3250	150000 km
5)	VR 3250	100000 km
6)	VR 115 E	300000 km
7)	VR 3250	300000 km
8)	VR 3250	200000 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	Getriebeöl SNS-B	75W-80	C
Aral AG	Turboral	20W-20	A
Aral AG	Turboral	10W	A <sup>(1)</sup>
AVIA AG	Avia Heavyline LSP Giga	5W-30	B
AVIA AG	Avia Multi LSP Extra	10W-40	B
AVIA Mineralöl-AG, München	Turbosynth CFE	10W-40	A
AVIA Mineralöl-AG, München	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.	Tecton Monograde	10W	A <sup>(1)</sup>
Cepsa	EUROTECH LS 10W40 PLUS	10W-40	B
Cepsa	EUROTRANS SHPD	5W-30	B
Cepsa	MAN Mega Gear	75W-80	C
Chevron Lubricants	Delo 400 LE Synthetic	5W-30	B
Chevron Lubricants	Delo 400 LE Synthetic	5W-40	A
Chevron Lubricants	Delo 400 XLE HD SAE 10W-40	10W-40	B
Chevron Lubricants	Delo 400 XLE Synthetic	5W-30	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	Multigear MTF HD	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 XHP ESP S	10W-40	B

<b>Producer / supplier</b>	<b>Product designation</b>	<b>SAE class</b>	<b>Oil class</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
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
LUKOIL Lubricants Europe Oy	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
MOTUL	TEKMA ULTIMA +10W-40	10W-40	B
MOTUL S.A.	Motul Gear Synth FE	75W-80	C
Öl-Brack AG	Midland VR-gear	75W-80	C
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
Petronas Lubricants International	URANIA FE LS	5W-30	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 DIESEL TURBO UHPD MID SAPS	10W-40	B
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.	REPSOL DIESEL TURBO VHPD MID SAPS	5W-30	B

Producer / supplier	Product designation	SAE class	Oil class
Shell	HD 1645	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
Smeermiddelen Industrie de Oliebron BV	Tor Turbosynth LSP Plus	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 TLA	10W-40	B
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TLS plus	5W-30	B
SRS Schmierstoff Vertrieb GmbH	SRS Getriebefluid MTS	75W-80	C
SRS Schmierstoff Vertrieb GmbH	SRS Turbo-Rekord top FE	10W-40	B
Tamoil Italia S.p.A.	Tamoil Diesel Top Performance FE	5W-30	B
Tamoil Italia S.p.A.	Tamoil Diesel Ultra FE	10W-40	B
TOTAL - Total Lubrifiants S.A.	Elf Evolution 900 SXR	5W-30	B
TOTAL - Total Lubrifiants S.A.	Elf Evolution Full-Tech LLX	5W-30	B
TOTAL - Total Lubrifiants S.A.	Elf Performance Experty	10W-40	A
TOTAL - Total Lubrifiants S.A.	Elf Performance Experty LSX	10W-40	B
TOTAL - Total Lubrifiants S.A.	Longevia BZV Eco	75W-80	C
TOTAL - Total Lubrifiants S.A.	Rubia TIR 8600	10W-40	A
TOTAL - Total Lubrifiants S.A.	Rubia TIR 8900	10W-40	B
TOTAL - Total Lubrifiants S.A.	Rubia TIR 9200 FE	5W-30	A
TOTAL - Total Lubrifiants S.A.	TRANSMISSION GEAR 9 FE	75W-80	C
TOTAL - Total Lubrifiants S.A.	TRANSMISSION GEAR 9V FE (Transmission XSV FE)	75W-80	C
TOTAL - Total Lubrifiants S.A.	Traxium Gear 9 FE	75W-80	C
Volvo	Volvo Semi Synthetic Diesel Engine Oil VDS-3 p/n 85102467/-8/-9	10W-40	B
YORK SAS	York 1147 SAE 10W40	10W-40	B
YORK SAS	York 1147 SAE 5W30	5W-30	B

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