



# Lubricants for Commercial Vehicles

LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.





**ACHTUNG!**

Bitte nur verwenden, wenn Sie Ihre Ausrüstung lieben und maximalen Schutz dafür wünschen. Lesen Sie nicht weiter, wenn gut genug für Sie ist. Nur für maximalen Schutz und Kraftstoffeffizienz.

**WARNING!**

This is German Technology.

Please only use if you love your equipment and want maximum protection for it. Do not continue reading if good is good enough for you. Only for maximum protection and fuel efficiency.

**ATTENTION!**

C'est la technologie allemande.

Veuillez n'utiliser que si vous aimez votre équipement et souhaitez une protection maximale. Ne continuez pas à lire si bon est assez bon pour vous Uniquement pour une protection et une efficacité énergétique maximales.



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Family Business, OEM Supplier & Aftermarket Partner

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## XTL® Technology

FUCHS' proprietary technology platform ensuring optimal wear protection, cold-start performance and fuel efficiency for your vehicle.

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**LUBRICANTS.**

100% focus on high-quality lubricants.

**TECHNOLOGY.**

Innovative and holistic solutions for all processes and fields of application in the world of lubricants.

**PEOPLE.**

FUCHS' dedicated corporate culture, paired with a loyal and motivated workforce, is the strategic key to our success.





# About FUCHS

## Family Business, OEM Supplier & Aftermarket Partner

### FAMILY BUSINESS

Founded in 1931 in Germany by Rudolf Fuchs, FUCHS is still a family-owned business with a clear focus on sustainable, long-term success. At the same time, FUCHS is the world's largest independent lubricants supplier with over 50 companies worldwide. For our customers, we combine the commitment and the personal relationships of a family business with the resources and expertise of a global supplier.

### OEM SUPPLIER

FUCHS is a development partner and lubricants supplier for automotive manufacturers around the globe. We keep especially close ties to the premium OEMs in Germany, our home country. Thanks to our broad portfolio of industrial, specialty and automotive first-fill lubricants, FUCHS' products can be found throughout the production process. Continual investments in state-of-the-art research and development facilities ensure we maintain the technological edge that makes FUCHS a valuable partner for any original equipment manufacturer.

### AFTERMARKET PARTNER

FUCHS' lubricants for the automotive aftermarket are developed and produced with the same know-how, experience and commitment to quality as our first-fill products. We firmly believe that only lubricants living up to these standards guarantee your vehicle will run the way it is supposed to run. For this reason, FUCHS is the optimal solution for every service professional. We provide dealerships, independent workshops and fleet operators with an extensive lubricant portfolio that will set them apart from competitors and help grow their businesses.



**FASTER. STRONGER.  
BETTER FOR YOUR ENGINE.**

XTL® Technology (eXtreme Temperature Lubrication) is the technology platform for FUCHS' current generation of high-performance engine oils that allows us to meet the ever increasing demands of modern engines.

Due to exceptional performance under extreme conditions, engine oils with XTL® Technology reach all areas in the engine faster and more reliably. A protective oil film is guaranteed where needed urgently. For the driver, this means improved wear protection, easier starting procedures and lower fuel consumption. XTL® also ensures a more stable level of oil performance and protection over the entirety of the drain interval compared to other products in the market. Engine longevity is maximized.

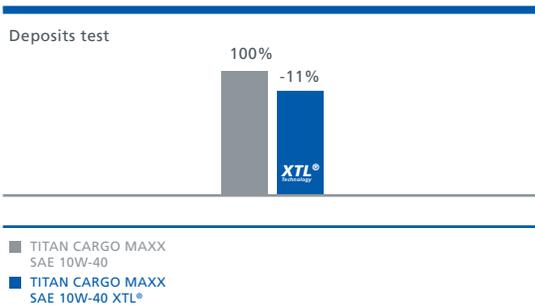
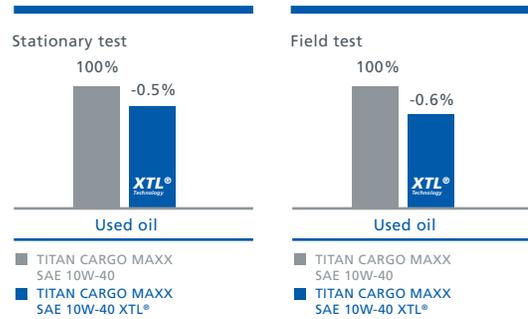
XTL® benefits at a glance:

- 0.5% reduction in fuel consumption over the whole drain interval
- 11% reduction in turbocharger deposits
- 23% improved oil pumpability at low temperatures
- 27% reduction in oil consumption

# Numbers Don't Lie.

## Lower Fuel Consumption

The aspect of fuel consumption impressively underlines the effectiveness of the XTL® technology from FUCHS. With XTL® engine oils, consumption was reduced by 0.5%. This represents a lasting reduction of fuel costs, enabling you to save money every day and for every mile driven.

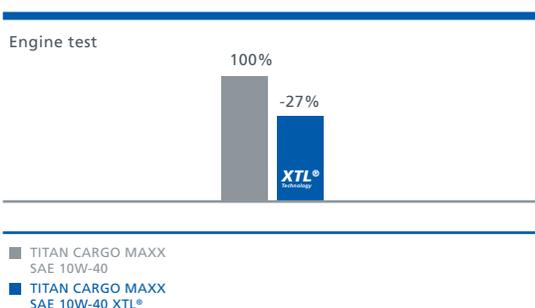
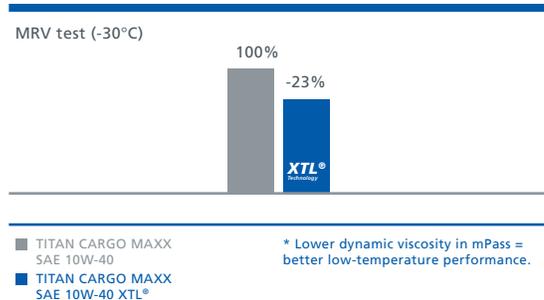


## Reduction of turbocharger deposits

FUCHS XTL® engine oils for commercial vehicles have undergone a special deposits test recognized by the automotive industry. This simulates turbocharger deposits and proves that deposits are reduced by 11% when XTL® is used. This is a highly convincing argument – after all, when turbocharger deposits are reduced, you can also benefit from reduced wear, improved engine performance and lower costs.

## Improved low-temperature performance

Our XTL® products also deliver outstanding results in the MRV (mini-rotary viscometer) test. For instance, the test results achieved by FUCHS demonstrate that pumpability at low temperatures is improved by an impressive 23%. This makes low-temperature start-up easier and reduces cold start wear – and not only at -30°C.



## Lower oil consumption

The new XTL® engine oils from FUCHS have been subjected to intensive series of tests, where it was established that they can reduce oil consumption by up to 27%. The investment therefore pays off quickly.

## Commercial Vehicle Applications

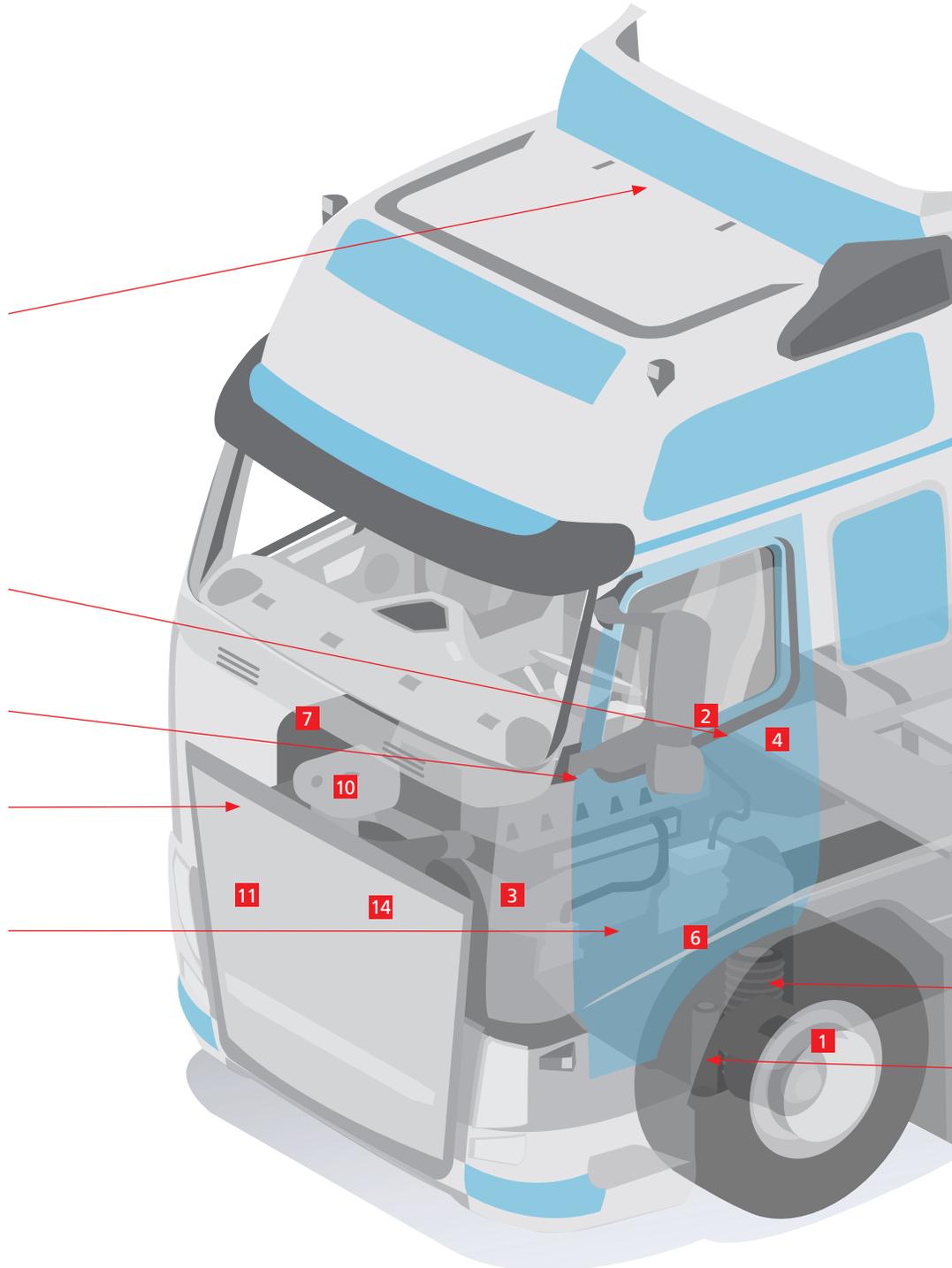
**Refrigeration and air conditioning:**  
RENISO Refrigeration Fluids

**Central Hydraulic:**  
TITAN (PENTOSIN)  
Central Hydraulic Fluids

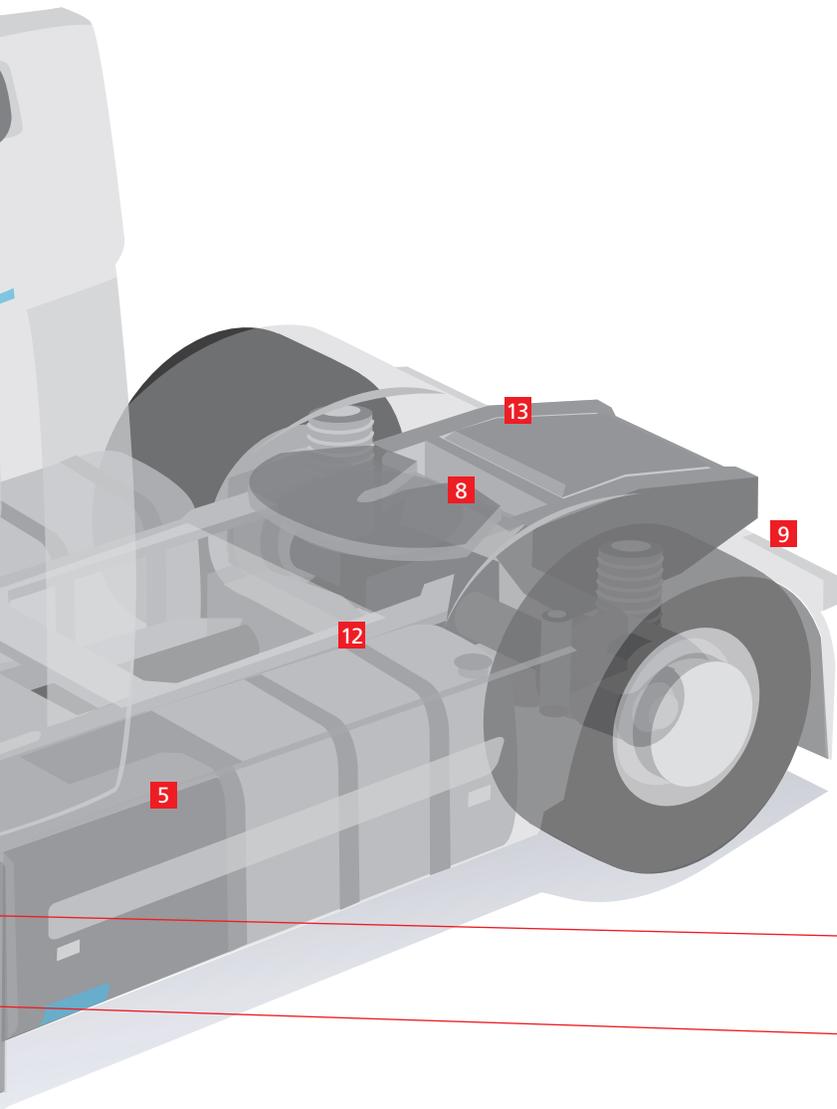
**Engine:**  
TITAN Engine Oils

**Cooling system:**  
MAINTAIN Antifreeze

**Power Steering:**  
TITAN (PENTOSIN)  
Power Steering Fluids



FUCHS not only manufactures engine and transmission oils. Thanks to our close cooperation with the leading vehicle manufacturers, we understand all components of the powertrain and can offer the ideal corresponding product solutions. This creates a coordinated overall package beyond the powertrain.



#### **RENOLIT Greases:**

- 1** wheel bearings
- 2** seat adjustment / damper
- 3** steering systems
- 4** door locks
- 5** tank lock
- 6** brake system
- 7** wiper system
- 8** saddle plate
- 9** trailer supports
- 10** chassis system
- 11** kingpin
- 12** central lubrication system
- 13** trailer hitch
- 14** viscous fans

#### **Shock Absorber:**

TITAN Shock Absorber Fluids

#### **Transaxles:**

TITAN Differential Oils

#### **Transmission:**

TITAN Gear Oils

## Engine Oils



Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>TTAN</b> <b>CARGO MAXX</b> <b>SAE 5W-30</b>	Premium MAXX Performance Engine Oil with new XTL® Technology. Specially developed for vehicles with modern exhaust after treatment and turbocharger. Optimum cold starting properties and ageing stability for extreme fuel-economy over the whole drain-interval	ACEA E9/E7/E6/E4 API CJ-4 CAT ECF-3 JASO DH-2 SCANIA LA	DEUTZ DQC IV-10 LA (incl. TTCD) DETROIT DIESEL 93K218 MACK EO-O PREMIUM PLUS MAN M 3271-1 MAN M 3477 MAN M 3575 MAN M 3677 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LDF-4 VOLVO VDS-4	CUMMINS CES 20081 IVECO 18-1804 CLASSE TLS E6
<b>TTAN</b> <b>CARGO MAXX</b> <b>SAE 10W-40</b>	Premium MAXX Performance Engine Oil with new XTL® Technology. Specially developed for vehicles with modern exhaust after treatment and turbocharger. Good cold starting properties and ageing stability for fuel-economy over the whole drain-interval.	ACEA E9/E7/E6/E4 API CJ-4 JASO DH-2 CAT ECF-3	DEUTZ DQC IV-10 LA (incl. TTCD) MACK EO-O PREMIUM PLUS MAN M 3271-1 MAN M 3477 MAN M 3575 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LA VOLVO VDS-4	CUMMINS CES 20081 DETROIT DIESEL 93K218 IVECO 18-1804 CLASSE TLS E9 IVECO 18-1809 CLASSE NG2 VOITH-RETARDER „B“



Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>TTAN</b> <b>CARGO</b> SAE 5W-40	Premium Performance, fuel-economy engine oil, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.	ACEA E9/E7 API CK-4/CJ-4/SN CAT ECF-3	CUMMINS CES 20086 DEUTZ DQC III-10 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
<b>TTAN</b> <b>CARGO</b> SAE 10W-30	Premium Performance, fuel-economy engine oil, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.	ACEA E9/E7 API CK-4/CJ-4 JASO DH-2	CUMMINS CES 20086 DEUTZ DQC III-18 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
<b>TTAN</b> <b>CARGO</b> SAE 15W-40	Premium Performance, fuel-economy engine oil for a variety of commercial vehicle diesel engines. Specially developed for vehicles with extended service intervals, exhaust after treatment and turbocharger.	ACEA E9/E7 API CK-4/CJ-4/SN CAT ECF-3 JASO DH-2	ALLISON TES-439 (439-34862020) CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC III-10 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	MAN M 3575 RENAULT RLD-4
<b>TTAN</b> <b>TRUCK PLUS</b> SAE 15W-40	Ultra High Performance Engine Oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption.	ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2	CUMMINS CES 20076/7/8 DETROIT DIESEL 93K215 DEUTZ DQC III-18 MACK EO-N MB-APPROVAL 228.3 MTU DDC TYPE 2 RENAULT RLD/RLD-2 VOLVO VDS-3	ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2 IVECO 18-1804 CLASSE T2 E7 MAN M 3275-1 NH 330H

A red Class 8 Long-Haul truck is shown from a front-quarter perspective, driving on a road. The truck features a large chrome grille, multiple headlights, and a prominent exhaust stack. The background shows a sunset sky with orange and blue tones. A dark blue semi-transparent box is overlaid on the lower half of the image, containing text.

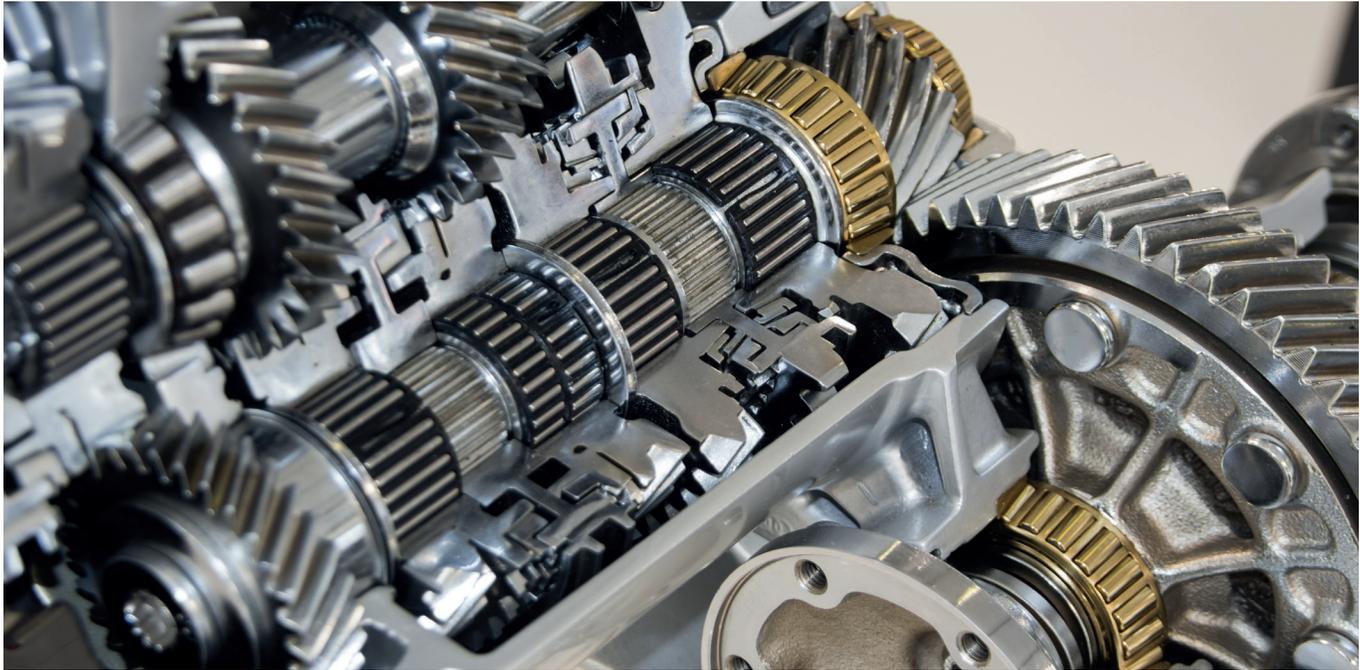
## **BE SMART. SAVE FUEL.**

An average Class 8 Long-Haul truck consumes about 39.2lt diesel fuel per 100km (based on Federal Highway Administration statistics) or 31,360 litres for every 80,000km. At a cost of \$1.23 per litre, this implies fuel costs of \$38,573 over the whole drain interval.

Reducing the fuel consumption by 0.5% due to a superior engine oil will save you \$193 per drain interval per truck and improve the engine's longevity.

Now that's worth buying a quality oil.

# Gear Oils



Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>TTAN</b> CYTRAC MAT SAE 75W-80	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially developed for manual and automatic ZF-gear boxes, formulated with selected base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals and compatible with Carbon-Synchronizers.	API GL-4	MAN 341 TYPE Z4 VOLVO 97307 ZF TE-ML 01L, 02L, 16K (ZF003373)	IVECO 18-1807 CLASSE MGS1 MAN 341 TYPE E3 MAN 341 TYPE Z3 MAN 341 TYPE Z5 VOLVO 97305 ZF TE-ML 01E, 02D, 02E, 08, 16P
<b>TTAN</b> CYTRAC FE SYNTH SAE 75W-85	Premium Performance Gear Oil for gear boxes in commercial vehicles, especially for the latest version of Mercedes-Benz CO <sub>2</sub> transmissions, formulated with fully synthetic base oils. Most fuel efficient by improving gearbox efficiency. Suitable for the longest oil change intervals.	API GL-4	MB-APPROVAL 235.16	-
<b>TTAN</b> CYTRAC MB SYNTH SAE 75W-90	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially developed for Mercedes-Benz Actros vehicles, formulated with fully-synthetic base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals.	API GL-4	MAN 341 TYPE MB MB-APPROVAL 235.11	ZF TE-ML 08
<b>TTAN</b> CYTRAC TD SAE 75W-90	Premium Performance Gear Oil for highly-stressed manual transmissions and hypoid axles in commercial vehicles formulated with fully-synthetic base oils. Developed for the longest oil change intervals.	API GL-4/GL-5 API MT-1 SAE J2360 SCANIA STO 1:0 SCANIA STO 2:0 A FS	DETROIT DIESEL 93K219.01 MAN 341 TYPE Z2 MAN 342 TYPE S1 MB-APPROVAL 235.8 MERITOR O-76-E VOLVO 97312 ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF003341)	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MAN 341 TYPE E3 MAN 342 TYPE M3

## Gear oils

Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>TTAN</b> <b>SUPERGEAR</b> SAE 75W-90	Ultra High Performance Gear Oil for extended oil change intervals.	API GL-5	-	ZF TE-ML 07A, 08
<b>TTAN</b> <b>SUPERGEAR</b> SAE 80W-90	Ultra High Performance Gear Oil for extended oil change intervals.	API GL-4/GL-5	EvoBus 26.000-025 MAN 342 TYPE M2 ZF TE-ML 05A, 12E, 17B, 19B, 21A (ZF000647)	MIL-L-2105 D VOLVO 97310 NH 520A STEYR B-101
<b>TTAN</b> <b>SUPERGEAR</b> SAE 85W-140	Ultra High Performance Gear Oil for extended oil change intervals.	API GL-4/GL-5	EvoBus 26.000-025 ZF TE-ML 05A, 12E, 16D, 21A (ZF000650)	MIL-L-2105 D VOLVO 97310
<b>TTAN</b> <b>GEAR MP</b> SAE 80	High Performance Gear Oil for synchronized and non-synchronized manual gearboxes as well as auxiliary drives, axles and differentials in commercial vehicles and passenger cars.	API GL-4	MB-APPROVAL 235.1 ZF TE-ML 17A (ZF000654)	BMW 81 22 9 407 052 BMW 81 22 9 407 053 FORD M2C9008-A VW TL 726 ZF TE-ML 08
<b>TTAN</b> <b>GEAR LS</b> SAE 90	High Performance LS (Limited Slip) hypoid gear oil for axles with or without limited slip differentials.	API GL-5 SAE J306: 85W-90	ZF TE-ML 05C, 12C, 16E, 21C (ZF000651)	MIL-L-2105 D FORD M2C104-A JOHN DEERE JDM J11F NH 520B VOLVO 97310
<b>TTAN</b> <b>GEAR HYP</b> SAE 90	High Performance Gear Oil for highly-stressed differentials in commercial vehicles and passenger cars.	API GL-5 SAE J306: 85W-90	MB-APPROVAL 235.0 ZF TE-ML 16C, 17B, 19B, 21A (ZF000656)	FORD SR-M2C9102-A JOHN DEERE JDM J11E MAN 342 TYPE M1 OPEL 19 42 387 VOLVO 97310 VW TL 727 ZF TE-ML 07, 08
<b>Automatic transmission fluids</b>				
<b>TTAN</b> <b>ATF 5668</b>	Premium Performance ATF especially developed for highly stressed ALLISON step automatic transmissions in medium and heavy duty commercial vehicles.	-	Allison TES-668	Allison TES-295
<b>TTAN</b> <b>ATF 4000</b>	Ultra High Performance ATF for use in automatic transmissions as well as other ATF applications. Licensed according to DEXRON III (H). Improved low-temperature shifting compared to DEXRON II.	-	DEXRON III (H) MAN 339 TYPE L1 MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 MB-APPROVAL 236.9 VOITH H55.6335.xx VOLVO 97341 ZF TE-ML 04D, 14A (ZF000728)	ALLISON C-4 ALLISON TES 389 BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 81 22 9 407 738 BMW 83 22 0 403 248 BMW 83 22 9 407 765 BMW 83 22 9 407 807 BMW 83 22 9 407 858 BMW 83 22 9 407 859 CAT TO-2 FORD MERCON OPEL 19 40 707 OPEL 19 40 767 VW TL 521 62 (G 052 162) ZF TE-ML 02F, 03D, 09, 11B, 17C
<b>TTAN</b> <b>ATF III</b>	High Performance ATF for transmissions, power steering systems and hydraulic drives in On and Off Highway Commercial Vehicles as well as Passenger Cars	-	-	DEXRON III

# Central hydraulic fluids / steering gear oils



Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>TTAN</b> CHF 115	Premium Performance Power Steering and Central Hydraulic Fluid with a wide application and approval profile for various manufacturers. Product dyeing: green.	FORD WSS-M2C204-A	CHRYSLER MS-11655B EvoBus 39.060-001 MAN M 3289 MB-APPROVAL 345.0 PSA S71 2710 ZF TE-ML 02K (ZF004744) VW TL 52 146 (G 002 000)	BENTLEY JNV862564F BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 FENDT X 902 011 622 IVECO 18-1807 CLASSE APU OPEL B 040 0070 PORSCHE 000 043 203 33 SAAB 3032 380 VOLVO 1161529
<b>TTAN</b> CHF 202	Premium Performance Power Steering and Central Hydraulic Fluid with a wide application and approval profile for various manufacturers. Product dyeing: green.	FORD WSS-M2C204-A2	HYUNDAI 00232-19017 OPEL B 040 2012 VW TL 52 146.01 (G 004 000)	AUDI/VW G 004 012 PORSCHE 000 043 206 56 PORSCHE 000 043 305 74 SAAB 93160548 VOLVO 30741424 LAND ROVER LR003401
<b>TTAN</b> PSF	High Performance Power Steering Fluid approved by Mercedes-Benz for passenger cars and commercial vehicles. Product dyeing: none.	-	MB-APPROVAL 236.3	-

## Greases



Product	Description / Main application	Specifications	Approvals	FUCHS Recommendations
<b>RENOLIT FLM 2</b>	For lubrication of all types of plain and roller bearings subject to heavy or shock loads or extended re-greasing intervals. For lubrication of agriculture and construction machinery, trucks, as well as bearings used in the stone-, mining- and rubber industry, and in concrete plants. Operating temperature range from -30°C to +140°C.	KPF2N-30 ISO-L-XCDEB2	MAN 285 LI-PF 2	For mechanically loaded lubricating points, grease with MoS <sub>2</sub> , agricultural machines, commercial vehicles, construction industry, quarries and mining, rubber and concrete factory  Suitable for the lubrication of agricultural and construction machinery, trucks, as well as in bearings used in stone-, mining- and rubber industries, and in concrete plants.
<b>RENOLIT LZR 000</b>	Low viscosity EP grease for gearboxes. Resistant against water and corrosion with good adhesion at metallic surfaces. Ideal for central lubrication systems of trucks and commercial vehicles as well as for gearboxes in municipal machinery.	GP00-000G-40 MB - 6833.00 Sheet 264.0 Willy Vogel AG Lincoln Tecalemit	MB-Sheet 264.0 MAN 283 LI-P 00/000	Semi-fluid grease for central lubricating systems of commercial vehicles.  Suitable for use in low loaded industrial gears.
<b>RENOLIT LX-OTP 2</b>	A Lithium complex soap thickened grease containing a careful selection of polyglycol base oils and solid lubricants. Protects reliability against oxidation and corrosion, reduces wear even at oscillating movements, and withstands extreme pressures. Operating temperature range from -40°C to +160°C	-	MAN -TUC 8080/00	Lubrication of MAN knuckle pins  Lubrication of knuckle pins of 9-ton axles and self-aligning axles.
<b>RENOLIT LX-PEP 2</b>	Multi-purpose EP high-quality lithium soap, mineral base oil grease with a wide temperature range. Outstanding performance with special EP additives that improve load-carrying capacity, even under extreme conditions. With Exceptional anti-corrosion properties even under adverse environmental factors (moist, aggressive atmosphere and water) ensuring a lifetime lubrication of rollers bearings operating under high thermal loads, with excellent anti-wear properties that can be applied within a wide temperature range.	KP2N-30 ISO-L-XCDEB2 Interprecise (IDC-Bearings) Duetsche Bahn	MAN 284 Li-H2 MB 265.1 ZF TE-ML 12 Schaeffler Gruppe VW TL 52 147 X	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.

## RENOLIT

Product	Description / Main application	Specifications	Approvals	FUCHS Recommendations
<b>RENOLIT MP</b>	Premium Multi-purpose containing antioxidant, anticorrosion, metal de-activator and anti-wear additives quality lithium base greases, developed specifically for applications encountered in modern industrial environments. Highest quality lithium soaps, of the 12 hydroxy stearate type, are used together with carefully selected premium quality base oils resulting in extremely shear stable and will not soften even after prolonged working.	KP2K-40 ISO-L-XDCEB2	DBL 6804.00 MB-Sheet 267.0	Multipurpose grease for lubricating points in passenger cars, commercial vehicles, engines, where constant temperature does not exceed 100°C, sliding speeds are very low and which are not exposed to high mechanical loads.
<b>RENOLIT MP 150</b>	Multi-purpose Lithium-soap grease with good aging resistance, EP properties and low temperature characteristics. Specially developed for wheel bearings of Daimler trucks.	KP2K-40 ISO-L-XDCEB	DBL 6804.50 MB sheet 267.1	Multipurpose grease for commercial vehicles. Daimler wheel bearing grease for the workshop area.
<b>RENOLIT MP 735</b>	Multi-purpose Lithium-soap grease based on mineral oils containing corrosion and oxidation inhibitors as well as wear-reducing high-pressure additives. With particularly good cold flow and anti-wear performance. Operating temperature range from -40°C to +120°C.	KP2K-40 ISO-L-XDCEB2	VW TL 735 MAN 283 Li-P 2 Stabilus 100 15883	Fully synthetic heavy duty all-season grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
<b>RENOLIT CA 5TH WHEEL</b>	5TH WHEEL GREASE soap grease containing more than 30% solids. It is designed for use in fifth wheels where it is designed to handle the shock loading that fifth wheels encounter. It contains both molybdenum disulfide and graphite. The product is in a NLGI 1 Grade.	-	-	Sacrificial Grease for Fifth Wheel Plate and similar Slideways.
<b>RENOLIT UNIWRL 2</b>	Multi-Purpose, High Temperature, Performance lithium complex, thickened greases formulated from highly refined paraffinic base oils and a robust extreme pressure, anti-wear, rust, and oxidation additive system which give them the utmost in protection for a wide variety of heavy-duty applications. That is very shear stable and retain their consistency which provides for extended equipment life over long lubrication intervals. Operating temperature range from -15°C to +140°C.	-	NLGI GC-LB	Provides extreme pressure, anti-wear, rust and oxidation protection for heavy duty applications. NLGI GC/LB certified for wheel bearing & chassis lubrication.  Automotive Wheel Bearings, Chassis, Wheel Hub Assemblies, CV-Joints, U-Joints, and other miscellaneous automotive hardware.  Heavy Duty Industrial, Construction, and Mining; Quarry applications such as: kingpins on buckets, crushers, bearings, shaker screens, conveyor bearings, and yard equipment lubrication.
<b>RENOLIT S2TX</b>	A high/low temperature, high performance multi-purpose lithium complex, semi-2 synthetic grease, formulated from highly refined mineral base oil, synthetic base stock, and a state-of-the-art additive package that provides ultra-high performance in a variety of applications. Designed to be one 2 grease for most applications. It is ideal for reducing inventories as it has the ability to provide the proper protection in high/low temperatures, high loads, and water wash-out applications. Operating temperature range from -15°C to +140°C.	-	-	Automotive Chassis, Wheel Hub Assemblies, and miscellaneous hardware. Anywhere a high/low temperature, high performance multi-purpose grease is required.  Heavy Duty Construction, Mining, Quarry applications where one grease can provide protection for the majority of applications present.

## Coolants



Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>MAINTAIN FRICOFIN LL</b>	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of nitrites, amines, phosphates and silicates with OAT-technology. Product dyeing: orange.	ASTM D 3306 TYPE I ASTM D 6210 TYPE I-FF BS 6580:2010 SAE J814 FORD WSS-M97-B44-D JAGUAR LAND ROVER STJLR.651.5003 FVV Heft R443 KSM 2142 UNE 26-361-88/1	Bez.Reg.Arnsg. E62.12.22.64-2011-1 CAT/MWM TR0199-99-2091 DAF 74002 DEUTZDQC CB-14 MAN 324 TYPE SNF MB-APPROVAL 325.3 MTU MTL 5048	AFNOR NFR 15-601 TYPE I AS/NZS 2108:2004 TYPE A ASTM D 4985 SAE J1034 ADE (ATLANTIS DIESEL ENGINES) BAIC GROUP FOTON Q-FPT 2313005-2013 CATERPILLAR MAK A4.05.09.01 CHRYSLER MS 12106 CNH MAT 3624 CUMMINS (ISBe engines at DAF and Leyland) CUMMINS CES 14603, CES 14439 DETROIT DIESEL 93K217 FIAT 9.55523 GM GMW 3420 (6277M)/GME L 1301 HYUNDAI MS 591-08 JASO M325 JIS K2234 JOHN DEERE JDM H5 KOMATSU AF-NAC (07.892 (2009)) LIEBHERR MD 1-36-130 MACK 014 GS 17009 MAZDA MEZ MN 121 D PSA B 71 5110 RENAULT 41-01-001/- -S Type D Bergen Engines 2.13.01 SAAB B 040 1065 SKODA 61-0-0257 TOYOTA TSK 2601G-8A VW TL 774-D/F (G12+ / different colour) VOLVO COOLANT VCS (STD 418-0001) VOLVO COOLANT XLC (STD 418-0005)

# MAINTAIN

Product	Description	Specifications	Approvals	FUCHS Recommendations
<b>Antifreeze</b>				
<b>MAINTAIN FRICOFIN DP</b>	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of nitrites, amines and phosphates with Si-OAT-technology. Product dyeing: pink-violet.	AFNOR NF R 15-601 TYPE 1 AS/NZS 2108:2004 TYPE A ASTM D 3306 TYPE I ASTM D 4985 BS 6580:2010 SAE J814 CUMMINS CES 14603	DEUTZ DQC CC-14 MAN 324 TYPE SI-OAT MB-APPROVAL 325.5 MB-APPROVAL 325.6	DETROIT DIESEL 93K217 SCANIA TB 1451 VW TL 774-G (G12++)
<b>MAINTAIN FRICOFIN HDD</b>	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of amines and phosphates with low silicate technology. Product dyeing: yellow	ASTM D 3306 TYPE I ASTM D 4985 ASTM D 6210 TYPE I-FF ASTM D 7583 AS/NZS 2108:2004 TYPE A BS 6580:2010 CHRYSLER MS 7170 CHRYSLER MS 9769 DETROIT DIESEL 7SE298 FORD ESE-M97B44-A FORD ESE-M97B18-C FORD WSS M97B51-A1 GM 1825M GM 1899M JIS K2234 MACK 014GS17004 SAE J814	MTU MTL 5048	CASE MS 1710 CAT EC-1 CUMMINS CES 14603 DETROIT DIESEL 93K217 (NOAT) FREIGHTLINER 48-2288D IVECO 18-1830 KENWORTH R026-170-97 MAN 324 TYPE N NEW HOLLAND WSN-M97B18-D PACCAR CS 0185 TOYOTA Motor Corp. RP 329
<b>MAINTAIN FRICOFIN V</b>	Premium Performance Coolant Concentrate based on monoethylene glycol and glycerin. Free of nitrites, amines and phosphates with Si-OAT-technology. Product dyeing: pink-violet.	ASTM D 3306 TYPE I BS 6580:2010	VW TL 774-J (G13)	-
<b>MAINTAIN FRICOFIN</b>	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of nitrites, amines and phosphates with hybrid technology. Product dyeing: blue-green.	AFNOR NF R 15-601 TYPE 1 AS/NZS 2108:2004 TYPE A ASTM D 3306 TYPE I ASTM D 4985 BS 6580:2010 CUNA NC 956-16 SAE J814 SAE J11034	BMW GS 94000 (BMW N 600 69.0) CAT/MWM TR 0199-99-2091 DEUTZ DQC CA-14 GE JENBACHER TA 1000-0201 MAN 324 TYPE NF MAN 324 TYPE NF PRITARDER MB-APPROVAL 325.0 MTU MTL 5048 PN-C 40007:2000 VOITH TURBO 172.00225010	DAF 74001 LIEBHERR TLV 035/TLV 23009 A OPEL/GM B 040 0240 VW TL 774-C (G11)

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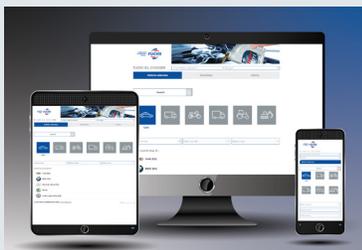
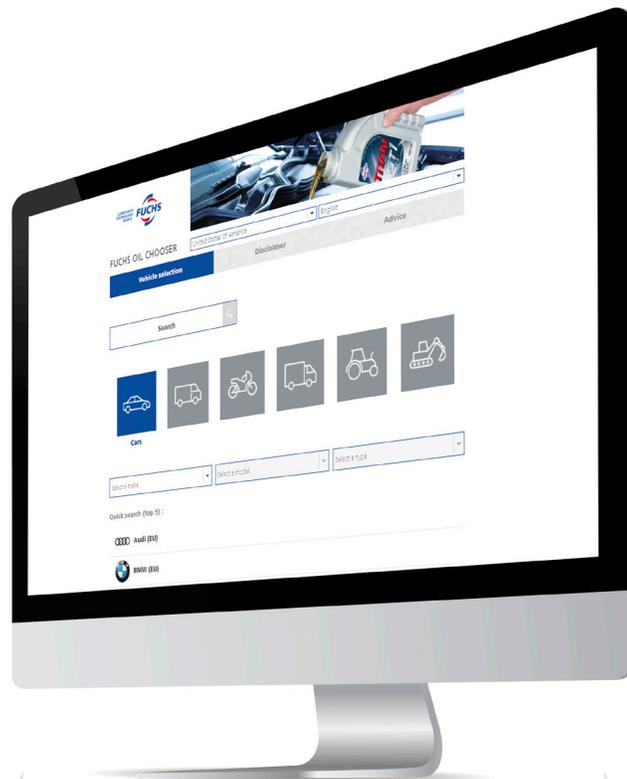
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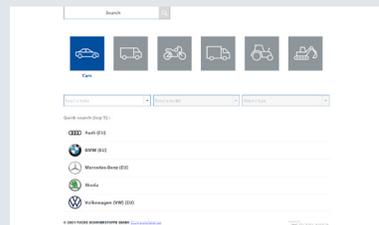
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We therefore recommend that you consult a FUCHS application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care. Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid.

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● Product is approved by the OEM.

● Product is recommended by FUCHS for this specification.

● Product fully complies with the requirements of the specification.

		<b>TITAN</b> CARGO MAXX 5W-30	<b>TITAN</b> CARGO MAXX 10W-40	<b>TITAN</b> CARGO 5W-40	<b>TITAN</b> CARGO 10W-30	<b>TITAN</b> CARGO 15W-40	<b>TITAN</b> TRUCK PLUS 15W-40
API	CI-4						●
	CJ-4	●	●	●	●	●	
	CK-4			●	●	●	
	SL						●
	SN			●		●	
ACEA	E4	●	●				
	E6	●	●				
	E7	●	●	●	●	●	●
	E9	●	●	●	●	●	
ALLISON	C-4						●
	TES-439					●	
JASO	DH-2	●	●		●	●	
CAT	ECF-1A						●
	ECF-2						●
	ECF-3	●	●	●	●	●	
	TO-2						●
CASE	MS 1121						●

● Product is approved by the OEM.

● Product is recommended by FUCHS for this specification.

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		<b>TITAN</b> CARGO MAXX 5W-30	<b>TITAN</b> CARGO MAXX 10W-40	<b>TITAN</b> CARGO 5W-40	<b>TITAN</b> CARGO 10W-30	<b>TITAN</b> CARGO 15W-40	<b>TITAN</b> TRUCK PLUS 15W-40
Cummins	CES 20071/2						●
	CES 20076/7/8						●
	CES 20081	●	●				
	CES 20086			●	●	●	
	CES 20087						
Detroit Diesel	93K215						●
	93K218	●	●				
	93K222			●	●	●	
Deutz	DQC III-10 LA			●		●	
	DQC IV-10 LA	●	●				
	DQC III-18						●
	DQC III-18 LA				●		●
Ford	WSS M2C171-F1			●	●	●	
GLOBAL	DHD-1						●
IVECO	18-1804 CLASSE TLS E6	●					
	18-1804 CLASSE TLS E9		●				
	18-1804 CLASSE T2 E7						●
	18-1809 CLASSE NG2		●				
Mack	EO-N						●
	EO-O PREMIUM PLUS	●	●				
	EOS-4.5			●	●	●	
MAN	M 3271-1	●	●				
	M 3275-1						●
	M 3477	●	●				
	M 3575	●	●	●	●	●	
	M 3677	●					
	M 3775			●	●	●	
Mercedes Benz	MB 228.3						●
	MB 228.31	●	●	●	●	●	
	MB 228.51	●	●				
MTU	DDC Type 2						●
	DDC Type 2.1	●	●	●	●	●	
	DDC Type 3.1	●	●				
NH	330H						●
Renault	RLD-2						●
	RLD-3	●	●	●	●	●	
	RLD-4			●	●	●	
Scania	LA	●	●				
	LDF-4	●					
Volvo	VDS-3						●
	VDS-4	●	●				
	VDS-4.5			●	●	●	
Voith	Retarder „B“		●				

## Innovative lubricants need experienced application consultants

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced FUCHS consultants will be glad to advise on products for the application in question and also on our full range of lubricants.

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