Lubricants for Transport Companies and Municipal Fleets
We focus consistently on high-quality lubricants and related specialities.

We develop innovative and holistic solutions for a wide variety of applications.

We value the high level of commitment of our employees and their trusting interaction with one another.
Facts and figures

Company: FUCHS LUBRICANTS (UK) plc, a company of the FUCHS Group
UK manufacturing site: Hanley, Stoke-on-Trent
Certifications: ISO 9001, IATF 16949, EN 9100, ISO 14001, ISO 50001 and OHSAS 18001
References: One of the leading lubricants OEM for the German automotive industry

FUCHS is a global Group with German roots that has developed, produced and sold lubricants and related specialties for more than 85 years – for virtually all areas of application and sectors. With 58 companies and almost 5,000 employees worldwide, the FUCHS Group is the leading independent supplier of lubricants.

Across the UK, a team of more than 300 specialists works to guarantee the satisfaction of our customers. Whatever their requirements, FUCHS has the ideal lubricant for their specific applications and processes. In our technology centre we link interdisciplinary expertise in a quick and efficient way – and work on innovative lubricant solutions to meet the demands of today and tomorrow every single day.

In close contact with its customers, FUCHS develops holistic, innovative and custom-made solutions for the most diverse applications. As a lubricant manufacturer, FUCHS stands for performance and sustainability, safety, reliability, efficiency and cost savings. FUCHS represents a promise: technology that pays back.
Commercial Vehicle Applications

Refrigeration and air conditioning: RENISO Refrigeration Oils

Central Hydraulic: TITAN (PENTOSIN) Central Hydraulic Oil

Engine: TITAN Engine Oil

Cooler: 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 Suspension Fluid

**Transaxles:**
TITAN Differential Oil

**Transmission:**
TITAN Gear Oil
MAXIMISE AVAILABILITY - MINIMISE COSTS

Truck fleet operators consider two aspects of crucial importance: optimum availability of the vehicles at all times and the lowest possible operating costs. Downtimes alongside high fuel costs affect competitiveness.

FUCHS, the world’s largest independent lubricant specialist, manufacture lubricants to help your company achieve better results in these two sensitive areas.
Lubricants for Transport Companies and Municipal Fleets

The latest result from our research and development is the innovative XTL® engine oil technology for commercial vehicles, which provides substantial potential savings for your company. An extensive series of tests - stationary and in field - impressively demonstrate that FUCHS XTL® enables you to achieve significantly improved values in four areas: fuel consumption, turbocharger protection, piston cleanliness and oil consumption.

Reducing fuel consumption opens up new dimensions for FUCHS XTL® engine oils. For the first time, the fuel savings were checked by a newly developed engine oil not only in the fresh oil condition, but also in the aged state of the engine oil.

**XTL®- Engine oils reduce operating costs**
The efficiency of our XTL® technology can be highlighted by its reduction in fuel consumption, by up to 1.0%. That means a sustainable reduction of fuel costs. Save every day with every mile driven.

The table below demonstrates the potential savings:

<table>
<thead>
<tr>
<th>Carrier in long-distance traffic / vehicles</th>
<th>Fuel-consumption in liters 100 km each</th>
<th>Annual mileage / oil change interval in km</th>
<th>Diesel fuel price (litres) in € without VAT</th>
<th>Savings with XTL® engine oils in %</th>
<th>Fleet savings per year in €</th>
<th>CO₂ Savings approx. 42 t p/y</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>35</td>
<td>150.000</td>
<td>0,9**</td>
<td>1,0*</td>
<td>14.175,-</td>
<td></td>
</tr>
</tbody>
</table>

* 1% Fuel economy with TITAN CARGO MAXX SAE 5W-30 XTL in OM501 LA FE
** Average value 2017
<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Specifications</th>
<th>Approvals</th>
<th>FUCHS Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITAN CARGO MAXX SAE 5W-30</td>
<td>Premium MAXX Performance, zinc-free, extreme fuel-economy oil for highly-loaded commercial vehicle diesel engines. Specially developed for exhaust after treatment and turbocharger. Optimum cold starting, lower oil consumption and minimized exhaust emissions. Low SAPS (Sulphated Ash, Phosphorus and Sulphur).</td>
<td>ACEA E9/E7/E6/E4 API CJ-4 CAT ECF-3 SCANIA LA JASO DH-2</td>
<td>DEUTZ DQC IV-10 LA DETROIT DIESEL 93K218 MACK EO-O PREMIUM PLUS MAN M 3271-1, M 3477, M 3575, M 3677 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 2.1, 3.1 RENAULT RLD-3 SCANIA LDF-4 VOLVO VDS-4</td>
<td>CUMMINS CES 20081 IVECO 18-1804 CLASSE TLS E6</td>
</tr>
<tr>
<td>TITAN CARGO MAXX SAE 10W-30</td>
<td>Premium MAXX Performance engine oil specially developed for vehicles with modern exhaust after treatment and turbocharger. Good cold starting and excellent age stability for fuel-economy over the whole drain-interval.</td>
<td>ACEA E9/E7/E6 API CK-4/SN CAT ECF-3</td>
<td>DEUTZ DQC IV-18 LA MACK EOS-4.5 MAN M 3477, MAN M 3677 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LA VOLVO VD-4.5</td>
<td>CUMMINS CES 20086 DETROIT DIESEL 93K218 DETROIT DIESEL 93K222 JASO DH-2 RENAULT RLD-4</td>
</tr>
<tr>
<td>Product</td>
<td>Description</td>
<td>Specifications</td>
<td>Approvals</td>
<td>FUCHS Recommendations</td>
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</tr>
<tr>
<td>TITAN CARGO LA SAE 10W-40</td>
<td>Ultra High Performance, extreme fuel-economy engine oil. Specially developed for commercial vehicles with modern exhaust after treatment systems and turbocharger. Offers good cold starting and lower oil consumption.</td>
<td>ACEA E9/E7/E6 API CI-4 JASO DH-2</td>
<td>DEUTZ DQC IV-10 LA MACK EO-N MAN M 3271-1 MAN M 3477 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-2/RLD/RLD VOLVO VDS-3</td>
<td>CUMMINS CES 20076/7</td>
</tr>
<tr>
<td>TITAN CARGO 228.61 SAE 5W-30</td>
<td>Ultra High Performance, extreme fuel-economy engine oil. Specially developed for Mercedes-Benz commercial vehicles with modern exhaust after treatment systems. Suitable for Euro VI engines. Good cold starting and lower oil consumption.</td>
<td>API FA-4</td>
<td>MB-APPROVAL 228.61</td>
<td>CUMMINS CES 20087 DETROIT DIESEL 93K223</td>
</tr>
<tr>
<td>TITAN CARGO LD3 SAE 10W-40</td>
<td>Ultra High Performance, fuel-economy engine oil for use in Scania Euro 6 engines. Specially developed for extended service intervals.</td>
<td>ACEA E7/E4</td>
<td>MACK EO-N MAN M 3277 MB-APPROVAL 228.5 RENAULT RLD-2 SCANIA LDF-3 VOLVO VDS-3</td>
<td>API CF</td>
</tr>
<tr>
<td>TITAN CARGO MC SAE 10W-40</td>
<td>Ultra High Performance, fuel-economy oil based on MC-synthesis for a variety of commercial vehicle diesel engines. Specially developed for extended service intervals. Good cold starting and lower oil consumption.</td>
<td>ACEA E7/E4 API CI-4 GLOBAL DHD-1</td>
<td>CUMMINS CES 20077/8 DETROIT DIESEL 93K215 DEUTZ DQC III-10 MACK EO-M PLUS MACK EO-N MAN M 3277 MB-APPROVAL 228.5 MTU DDC TYPE 3 RENAULT RLD/RLD-2 SCANIA LDF-2 VOLVO VDS-3</td>
<td>IVECO 18-1804 SDFG OM-1901A</td>
</tr>
<tr>
<td>TITAN CARGO SAE 5W-40</td>
<td>Ultra High Performance, fuel-economy engine, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.</td>
<td>ACEA E9 API CK-4 / CJ-4 / SN CAT ECF-3</td>
<td>CUMMINS CES 20086 DETROIT DIESEL 93K215 DEUTZ DQC III-10 LA FORD M2C 171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPEE 2.1 RENAULT RLD-3 VOLVO VDS-4.5</td>
<td>DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4</td>
</tr>
<tr>
<td>Product</td>
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<tr>
<td>TITAN CARGO SAE 10W-30</td>
<td>Ultra High-Performance, extreme fuel-economy oil for a variety of commercial vehicle diesel engines. Specially developed for Volvo with extended service intervals, exhaust after treatment and turbocharger.</td>
<td>ACEA E9 API CK-4/CJ-4 CAT ECF-3 JASO DH-2</td>
<td>CUMMINS CES 20086 DEUTZ DQC III-18 LA FORD M2C 171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RD-3 VOLVO VDS-4.5</td>
<td>DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4</td>
</tr>
<tr>
<td>TITAN CARGO SAE 15W-40</td>
<td>Ultra High Performance, fuel-economy engine oil for a variety of commercial vehicle diesel engines. Specially developed for Volvo with extended service intervals, exhaust after treatment and turbocharger.</td>
<td>ACEA E9 API CK-4/CJ-4/SN CAT ECF-3 JASO DH-2</td>
<td>CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC III-18 LA FORD M2C 171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RD-3 VOLVO VDS-4.5</td>
<td>MAN M 3575 RENAULT RLD-4</td>
</tr>
<tr>
<td>TITAN TRUCK PLUS SAE 15W-40</td>
<td>Super High Performance oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption.</td>
<td>ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2</td>
<td>CUMMINS CES 20076/7/8 DETROIT DIESEL 93K215 DEUTZ DQC III-10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE 2 RENAULT RD-RLD-2 VOLVO VDS-3</td>
<td>ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2 MECO 18-1804 CLASSE T2 E7 NH 330H</td>
</tr>
<tr>
<td>TITAN TRUCK PLUS SAE 20W-50</td>
<td>Super High Performance oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption.</td>
<td>ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2</td>
<td>MB-APPROVAL 228.3</td>
<td>MAN M 3275-1</td>
</tr>
<tr>
<td>TITAN UNIMAX ULTRA MC SAE 10W-40</td>
<td>Premium Motor Oil based on MC-synthesis for all commercial vehicles, off-highway equipment and passenger cars. Substantial rationalisation opportunities for mixed fleets. Prolongation of drain intervals possible with many manufacturers. Good cold starting and lower oil consumption.</td>
<td>ACEA E7/B4/B3/A3 API CI-4 GLOBAL DHD-1 JASO DH-1</td>
<td>CUMMINS CES 20077/8 DETROIT DIESEL 93K215 DEUTZ DQC III-10 MACK EO-M PLUS MAN M 3275-1 MB-APPROVAL 228.3 MB-APPROVAL 235.27 MTU DDC TYPE 2 RENAULT RD-RLD-2 VOITH-RETARDER „A“ VOLVO VDS-3</td>
<td>ALLISON C-4 CAT ECF-2 CUMMINS CES 20071/2/6 MB 229.1 VW 500 00/501 01/505 00</td>
</tr>
<tr>
<td>TITAN UNIMAX PLUS MC SAE 10W-40</td>
<td>MC-synthesis, high performance, fuel-economy oil for all commercial vehicles, off-highway equipment and passenger cars. Substantial rationalisation opportunities for mixed fleet.</td>
<td>ACEA E7/B3/A3 API CH-4</td>
<td>DEUTZ DQC II-10 MAN M 3275-1 MB-APPROVAL 228.3 MB-APPROVAL 235.27 MTU DDC TYPE 2 RENAULT RD/DRD-2 VOITH-RETARDER „A“ VOLVO VDS-2</td>
<td>ALLISON C-4 CUMMINS CES 20071/2/6/7 MACK EO-M PLUS MB 229.1</td>
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</tbody>
</table>
## Gear Oils

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Specifications</th>
<th>Approvals</th>
<th>FUCHS Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITAN CYTRAC SL SAE 75W-90</td>
<td>Premium Performance Gear Oil for highly stressed hypoid axles in commercial vehicles formulated with fully-synthetic base oils.</td>
<td>API GL-5 SCANIA STO 1:0</td>
<td>MAN 342 TYPEE S1</td>
<td>MB 235.8 VOLVO V 97312 ZF TE-ML 05B, 07, 08, 12B, 16F, 17B</td>
</tr>
<tr>
<td>TITAN CYTRAC PRO 235.31 SAE 75W-85</td>
<td>Premium Performance Gear Oil for highly stressed hypoid axles in Mercedes-Benz commercial vehicles formulated with selected base oils.</td>
<td>API GL-5 SAE J2360 SCANIA STO 1:0</td>
<td>MB-APPROVAL 235.31</td>
<td>DETROIT DIESEL 93K219.03</td>
</tr>
<tr>
<td>TITAN CYTRAC FE SYNTH SAE 75W-85</td>
<td>Premium Performance Gear Oil for gear boxes in commercial vehicles, specially for the latest version of Mercedes-Benz CO2 transmissions, formulated with fully-synthetic base oils.</td>
<td>API GL-4</td>
<td>MB-APPROVAL 235.16</td>
<td>–</td>
</tr>
<tr>
<td>TITAN CYTRAC MB SYNTH SAE 75W-90</td>
<td>Premium Performance Gear Oil for extended drain intervals in commercial vehicles, specially developed for Mercedes-Benz Actros vehicles, formulated with fully-synthetic base oils.</td>
<td>API GL-4</td>
<td>MAN 341 TYPE MB MB-APPROVAL 235.11</td>
<td>ZF TE-ML 08</td>
</tr>
</tbody>
</table>
# Gear oils

## Gear oils for commercial vehicles

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Specifications</th>
<th>Approvals</th>
<th>FUCHS Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITAN CYTRAC ULTRA SYNTH SAE 75W-80</td>
<td>Premium Performance Gear Oil for extended drain intervals in commercial vehicles, specially developed for Mercedes-Benz Actros vehicles, formulated with fully synthetic base oils.</td>
<td>API GL-4/ VOLVO 97307</td>
<td>MAN 341 TYPE Z5 ZF TE-ML 01E, 02E, 16P (ZF001457)</td>
<td>–</td>
</tr>
<tr>
<td>TITAN CYTRAC MAT SAE 75W-80</td>
<td>Premium performance Gear Oil for gear boxes in commercial vehicles, specially developed for manual and automatic ZF-gear boxes. Reduces fuel consumption by improving efficiency.</td>
<td>API GL-4</td>
<td>MAN 341 TYPE Z4 VOLVO 97307 ZF TE-ML 01L, 02L, 16K (ZF003373)</td>
<td>MAN 341 TYPE E3 / Z3 VOLVO 97305 ZF TE-ML 02D, 08</td>
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</tbody>
</table>

## Gear oils for mixed fleets

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Specifications</th>
<th>Approvals</th>
<th>FUCHS Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITAN SUPERGEAR MC SAE 80W-140</td>
<td>Super High Performance Gear Oil based on MC-Synthesis for extended oil change intervals.</td>
<td>API GL-4/ GL-5/ SAE J2360 SCANIA STO 1.0</td>
<td>–</td>
<td>OPEL 19 42 386 RENAULT VI VOLVO 97310 ZF TE-ML 08</td>
</tr>
<tr>
<td>TITAN GEAR LS SAE 90</td>
<td>High Performance LS (Limited Slip) hypoid gear oil for axles with or without limited slip differentials.</td>
<td>API GL-5/ SAE J306: 85W-90</td>
<td>ZF TE-ML 05C, 12C, 16E, 21C (ZF000651)</td>
<td>MIL-L-2105 D FORD M2C 104-A NH 5208, VOLVO 97310</td>
</tr>
<tr>
<td>TITAN GEAR MP SAE 80</td>
<td>High Performance Gear Oil for synchronized and non-synchronized manual gearboxes as well as auxiliary drives, axles and differentials.</td>
<td>API GL-4</td>
<td>MB-APPROVAL 235.1 ZF TE-ML 17A (ZF000654)</td>
<td>FORD M2C9008-A VW TL 726, ZF TE-ML 08</td>
</tr>
<tr>
<td>TITAN GEAR MP SAE 80W-90</td>
<td>Multipurpose gear oil for synchronised and non-synchronised manual gearboxes as well as auxiliary drives, axles and differentials in commercial vehicles &amp; passenger cars.</td>
<td>API GL-4</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
# Lubricants for Transport Companies and Municipal Fleets

## Gear oils for mixed fleets

<table>
<thead>
<tr>
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<th>FUCHS Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TITAN GEAR HYP SAE 85W-140</strong></td>
<td>High Performance Gear Oil for highly stressed differentials in commercial vehicles and passenger cars.</td>
<td>API GL-5</td>
<td>-</td>
<td>ZF TE-ML 07, 08</td>
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</tbody>
</table>

## Automatic transmission fluids

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Specifications</th>
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<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TITAN ATF 1</strong></td>
<td>Ultra High Performance ATF especially developed for highly stressed step automatic transmissions in passenger cars as well as in commercial vehicles.</td>
<td>VOITH 150.014524.xx ZF TE-ML O4D, 118, 14B, 16L, 17C (ZF000734)</td>
<td>BMW 83 22 9 407 807 CHRYSLER MS 9602 (ATF +4) CITROËN/PEUGEOT Z 000 169756 DEXRON III JAGUAR JLM 20238 MB 236.11 PORSCHE 999.917.547.00 VW TL 521 62 (G 052 162)</td>
<td></td>
</tr>
<tr>
<td><strong>TITAN ATF 4000</strong></td>
<td>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. Product dyeing: RED.</td>
<td>ALLISON C-4 ALLISON TES 389 DEXRON III (H) MAN 339 TYPE L1 / V1 / Z1 MB-APPROVAL 236.1 MB-APPROVAL 236.9 VOITH HSS 6355 xx VOLVO 97341 ZF TE-ML O4D, 14A (ZF000728)</td>
<td>CAT TO-2 FORD MERCON OPEL 19 40 707 OPEL 19 40 776 VW TL 521 62 (G 052 162) ZF TE-ML O2F, 03D, 09, 11B, 17C</td>
<td></td>
</tr>
<tr>
<td><strong>TITAN ATF 3000</strong></td>
<td>Super High Performance DEXRON II (D) ATF for automatic transmissions in commercial vehicles, machinery and passenger cars according to manufacturer’s documentation.</td>
<td>MAN 339 TYPE L1 MAN 339 TYPE V1 MAN 339 TYPE Z1 MAN 339 TYPE L2/V1/Z1 MB-APPROVAL 236.1 VOITH HSS 6355 xx ZF TE-ML O4D, 14A (ZF000720)</td>
<td>DEXRON II (D) ALLISON C-4, CAT TO-2 FORD MERCON FORD MZC 185-A FORD ESP-MZC 138-CJ / 166-H FORD MZC9010-A OPEL 19 40 7001 19 40 707 RENK-DOROMAT ZF TE-ML O2F, 03D, 09, 11A, 17C</td>
<td></td>
</tr>
</tbody>
</table>
It’s easy:
Visit www.fuchs.com/en and click the Oil Chooser link.

There you can select your vehicle type e.g. truck, then the make and model to access an overview of the optimum lubricants for your vehicle. Just click a listed product for more product detail.

You can also search using your registration plate.

Quick overview of all vehicle lubricant information

Easy searching with all models listed

Our intuitive online system provides clear results
## Central hydraulic fluids / steering gear oils

### TITAN CHF 11S
Formally PENTOSIN CHF 11S

**Product**
Central hydraulic oil / power steering fluid

**Description**
Premium Performance power steering and central Hydraulic Oil with a wide application and approval profile for various manufacturers.

**Specifications**
- FORD WSS-M2C204-A
- CHRYSLER MS-11655B
- MAN M 3289
- MB-APPROVAL 345.0
- PSA S71 2710
- ZF TE-ML 02K (ZF004744)
- VW TL 52 146 (G 002 000)

**Approvals**
- FENDT X 902 011 622
- OPEL B 040 0070
- PORSCHE 000 043 203 33
- SAAB 3032 380
- VOLVO 1161529

**FUCHS Recommendations**
- 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
- OPEL B 040 0070
- PORSCHE 000 043 203 33
- SAAB 3032 380
- VOLVO 1161529

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### TITAN CHF 202
Formally PENTOSIN CHF 202

**Product**
Central hydraulic oil / power steering fluid

**Description**
Premium Performance power steering and central Hydraulic Oil with a wide application and approval profile for various manufacturers.

**Specifications**
- FORD WSS-M2C204-A2
- HYUNDAI 00232-19017
- OPEL B 040 2012
- VW TL 52 146.01 (G 004 000)

**Approvals**
- AUDI/VW G 004 012
- PORSCHE 000 043 206 56
- SAAB 93160548
- VOLVO 30741424
- LAND ROVER LR003401

**FUCHS Recommendations**
- –

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### TITAN CHF 5364 B
Formally PENTOSIN CHF 5364 B

**Product**
Central hydraulic oil / power steering fluid

**Description**
Premium Performance central Hydraulic Oil approved by Mercedes-Benz for level control systems in passenger cars formulated with fully-synthetic base oils.

**Specifications**
- –

**Approvals**
- MB-APPROVAL 344.0

**FUCHS Recommendations**
- –

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### TITAN PSF
Formally PENTOSIN PSF

**Product**
Central hydraulic oil / power steering fluid

**Description**
Super High Performance Power Steering Fluid approved by Mercedes-Benz for passenger cars and commercial vehicles.

**Specifications**
- –

**Approvals**
- MB-APPROVAL 236.3

**FUCHS Recommendations**
- –

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### TITAN LHM+
Formally PENTOSIN LHM+

**Product**
Central hydraulic oil / power steering fluid

**Description**
Ultra High Performance Central Hydraulic Oil for use in the comfort and safety area of PSA vehicles.

**Specifications**
- –

**Approvals**
- PSA B71 2710

**FUCHS Recommendations**
- IVECO 18-1823
- MAT 3630
- MASSEY FERGUSON NH 610A
- SDFG OF1611S
# Greases

<table>
<thead>
<tr>
<th>Product</th>
<th>Description / Main application</th>
<th>Specifications</th>
<th>Approvals</th>
<th>FUCHS Recommendations</th>
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</thead>
<tbody>
<tr>
<td>RENOLIT CX-HT 2</td>
<td>For lubrication of highly loaded, low speed plain and roller bearings, open gears and gear wheels. used where special requirements of wear and corrosion protection under high temperatures are demanded, e.g. in Wheel bearings in tunnel furnace cars, rotary kilns and mills, construction machinery and steel mills. Operating temperature range from -20°C to +200°C.</td>
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</tr>
<tr>
<td>RENOLIT DURAPLEX EP 2</td>
<td>Recommended for all lubricating points particularly where high demands on service life, temperature capability and corrosion protection are required. suitable for permanent and long-term lubrication. Operating temperature range from -30°C to +160°C.</td>
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<td>–</td>
</tr>
<tr>
<td>RENOLIT FLM 2</td>
<td>For lubrication of all TYPes of plain and roller bearings subject to heavy or shock loads or extended re-greasing intervals. For lubrication of agricultural and construction machinery, trucks, as well as in bearings used in the stone-, mining- and rubber industry, and in concrete plants. Operating temperature range from -30°C to +140°C.</td>
<td>KPF 2 N-30 ISO-L-X-CDEB 2</td>
<td>MAN 285 Li-PF 2</td>
<td>–</td>
</tr>
<tr>
<td>RENOLIT FLM 1002</td>
<td>For lubrication of bearings working under severe conditions like high heavy loads and/or low speeds</td>
<td>KPF 2 N-20 ISO-L-X-BDEB 2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RENOLIT HI-TEMP 220</td>
<td>A fully synthetic special lubricating grease. Used in a wide temperature range for lubrication of plain and roller bearings of, e.g. paper mills (wet sector), truck hub units, and cardan shafts. Operating temperature range from -40°C to +140°C.</td>
<td>–</td>
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</tr>
<tr>
<td>Product</td>
<td>Description / Main application</td>
<td>Specifications</td>
<td>Approvals</td>
<td>FUCHS Recommendations</td>
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<tr>
<td>RENOLIT LX-PEP 2</td>
<td>Multi-purpose EP grease. Improve load-carrying capacity providing reliable lubrication even under extreme conditions. For all grease lubricated plain and roller bearings (e.g. electrical motors), various types of gears as long-term or lifetime lubrication. Operating temperature range from -30°C to +150°C.</td>
<td>KP 2 N-30 ISO-L-X-CDEB 2</td>
<td>MAN 284 Li-H 2 MB-APPROVAL 265.1</td>
<td>–</td>
</tr>
<tr>
<td>RENOLIT LX EP 2</td>
<td>Multi-purpose grease for long-life at ambient and high temperatures. Suitable for the majority of industrial and automotive applications.</td>
<td>KP 2 P-30 ISO-L-XCEEB 2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RENOLIT LX-OTP 2</td>
<td>For lubrication of knuckle pins of 9 ton axles and self-aligning axes. Protects reliably against oxidation and corrosion, reduces wear even at oscillating movements, and withstands extreme pressures. Operating temperature range from -40°C to +160°C.</td>
<td>–</td>
<td>–</td>
<td>MAN</td>
</tr>
<tr>
<td>RENOLIT EP GREASES</td>
<td>High quality, multi-use EP greases. High specification, general purpose greases suitable for many industrial and automotive applications.</td>
<td>VARIOUS</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RENOLIT LZR 000</td>
<td>Primarily used in centralized lubricating systems of trucks and commercial vehicles. Used in low loaded industrial gears. Good thermal stability, good pressure capacity, it is water resistant, minimizes wear and has good adhesion to metallic surfaces. Operating temperature range from -40°C to +110°C.</td>
<td>GP 00-000 G-40 ISO-L-X-DBIB 00-000</td>
<td>MAN 283 Li-P 00/000 MB-APPROVAL 264.0</td>
<td>Central lubrication system manufacturers: BAIER + KÖPPEL DELIMON LINCOLN SKF LUBRICATION SOLUTIONS WOERNER</td>
</tr>
<tr>
<td>RENOLIT LZR 2 H</td>
<td>Multi-purpose grease for long-term lubrication for roller bearings, friction bearings, and grease lubrication points being rarely serviced or re-lubricated, exposed to unfavourable operating conditions, and which require grease ensuring good additional sealing. Operating temperature range from -30°C to +140°C.</td>
<td>KP 2 N-30 ISO-L-X-CDB 2</td>
<td>–</td>
<td>BAIER &amp; KÖPPEL</td>
</tr>
<tr>
<td>RENOLIT MO 2</td>
<td>Molybdenum disulphide grease for high load applications. Equally suited to the lubrication of suspension joints; steering joints; fifth wheel applications and general chassis use in the automotive sector.</td>
<td>ESA M1C 47A KPF 2 K-20 ISO-L-XBDEB 2</td>
<td>–</td>
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</tr>
<tr>
<td>RENOLIT MP PLUS</td>
<td>Only for use in the FUCHS system grease gun. The perfect universal lubricating grease for all applications in cars, trucks and machinery. Can also be used as battery terminal grease. Operating temperature range from -30°C to +120°C.</td>
<td>KP 2 K-30 ISO-L-X-CCEB 2</td>
<td>–</td>
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</tr>
</tbody>
</table>
### Product: MAINTAIN FRICOFIN LL

Also available as a ready to use pre-mix.

**Description:**

Premium Performance coolant concentrate based on monoethylene glycol for heavy duty application as well as passenger cars and stationary combustion engines. Prevents high loaded engines from passenger cars and commercial vehicles from frost, overheating, corrosion and cavitation. Must be diluted with water before application. Colour: orange.

**Specifications:**

- ASTM D 3306 TYPE I
- ASTM D 6210 TYPE I-FF
- SAE J834
- FORD WSS-M97-B44-D
- JAGUAR LAND ROVER ST/JLR.651.5003
- FVV Heft R443
- KSM 2142
- UNE 26-361-88/1

**Approvals:**

- ASTM D 4985; SAE J1034
- ADE (ATLANTIS DIESEL ENGINES)
- BASIC GROUP FOTON Q-PPT
- 2313005-2013
- CATERPILLAR MAK A4.05.09.01
- CHRYSLER MS 12106
- CNH MAT 3624
- CUMMINS (5Re engines at DAF and Leyland)
- CUMMINS CES 14603, CES 14439
- DETROIT DIESEL 9SK217
- FIAT 9.55523
- GM GMW 3420 (6277M)
- HYUNDAI MS 591-08
- JASO M325, J5 K2234
- JOHN DEERE JDA H5
- KOMATSU AF-NAC (ready mix) (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
- SAAB B 040 1065
- SKODA 61-0-0257
- TOYOTA TSK 2601G-8A
- VAILUXHALL GME L1301
- VOLVO TL 774-D/F (G12+ / different colour)
- VOLVO 128 6683/002 (=VOLVO TRUCKS, VOLVO CE MY 2005, VOLVO PENTA MY 05/2010)

**FUCHS Recommendations:**

- AFNOR NFR 15-601 TYPE I
- ASTM D 4985; SAE J1034
- ADE (ATLANTIS DIESEL ENGINES)
- BASIC GROUP FOTON Q-PPT
- 2313005-2013
- CATERPILLAR MAK A4.05.09.01
- CHRYSLER MS 12106
- CNH MAT 3624
- CUMMINS (5Re engines at DAF and Leyland)
- CUMMINS CES 14603, CES 14439
- DETROIT DIESEL 9SK217
- FIAT 9.55523
- GM GMW 3420 (6277M)
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- VOLVO TL 774-D/F (G12+ / different colour)
- VOLVO 128 6683/002 (=VOLVO TRUCKS, VOLVO CE MY 2005, VOLVO PENTA MY 05/2010)
## Lubricants for Transport Companies and Municipal Fleets

### MAINTAIN FRICOFIN DP

**Product:** Ultra High Performance coolant concentrate based on monoethylene glycol. Must be diluted with water before application. Colour: pink-violet.

**Specifications:**

- 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

**Approvals:**

- DEUTZ DQC CC-14
- MAN 324 TYPE Si-OAT
- MB-APPROVAL 325.5
- MB-APPROVAL 325.6

**FUCHS Recommendations:**

- DETROIT DIESEL 93K217
- SCANIA TB 1451
- VW TL 774-G (G12++)

### MAINTAIN FRICOFIN HDD

**Product:** Ultra High Performance Engine Coolant concentrate based on monoethylene glycol. Must be diluted with water before application. Colour: yellow.

**Specifications:**

- 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
- SAE J814
- CHRYSLER MS 7170
- CHRYSLER MS 9769
- DETROIT DIESEL 7E298
- FORD ESE-M97844-A
- FORD ESE-M97818-C
- FORD WSS M97851-A1
- GM 1825M & GM 1899M
- JIS K2234
- MACK 014GS17004

**Approvals:**

- MTU MTL 5048
- CASE MS 1710
- CAT EC-1
- CUMMINS CES 14603
- DETROIT DIESEL 93K217 (NOAT)
- FREIGHTLINER 48-2288D
- IVECO 18-1830
- KENWORTH RO26-170-97
- MAN 324 TYPE N
- NEW HOLLAND WSN-M97B18-D
- PACCAR CS 0185
- TOYOTA Motor Corp. RP 329

### MAINTAIN FRICOFIN

**Product:** Super High Performance coolant concentrate based on monoethylene glycol. Must be diluted with water before application. Colour: blue green.

**Specifications:**

- 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 J1034

**Approvals:**

- BMW GS 94000
- (BMW N 600 69.0)
- CAT / MWM TR 0199-99-991
- DEUTZ DQC CA-14
- GE JENBACHER TA 1000-0201
- MAN 324 TYPE NF
- MB-APPROVAL 325.0
- MPR 5048
- PN-C 40007:2000
- VOITH TURBO 172.00225010

**FUCHS Recommendations:**

- BMW GS 94000
- CAT / MWM TR 0199-99-991
- DEUTZ DQC CA-14
- GE JENBACHER TA 1000-0201
- MAN 324 TYPE NF
- MB-APPROVAL 325.0
- MPR 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)
## Brake fluids

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</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSAL BRAKE &amp; CLUTCH FLUID</strong></td>
<td>High Performance brake &amp; clutch fluid for hydraulic brake &amp; clutch systems in cars, vans, commercial vehicles and some agricultural &amp; off-highway equipment.</td>
<td>FMVSS 116 DOT 3 and DOT 4, ISO 4925 (Classes 3 &amp; 4), SAE J 1703, SAE J 1704</td>
<td>–</td>
<td>JIS K 2233 TYPES 3 &amp; 4</td>
</tr>
<tr>
<td><strong>MAINTAIN DOT 4</strong></td>
<td>Super High Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, trucks and motorcycles.</td>
<td>FMVSS NR. 116 DOT 4 SAE J 1703/J 1704</td>
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</table>

## Fuel additives

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>MAINTAIN DIESEL EFFECT</strong></td>
<td>Super High Performance fuel additive improving diesel fuel properties for singular as well as constant treatment.</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>MAINTAIN WINTERFIT</strong></td>
<td>Super High Performance diesel fuel and heating oil additive to prevent waxing and plugging at low temperatures.</td>
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</tbody>
</table>
Lubricants for Transport Companies and Municipal Fleets

Maintain
Good reasons for choosing Lubricants from FUCHS

1. GUARANTEED OEM QUALITY

- FUCHS is a leading lubricant partner to major vehicle manufacturers.
- As a development partner of vehicle manufacturers, we always have a range with the latest approvals and specifications.
- We know tomorrow’s developments, today. - benefit from our know-how!

2. INNOVATION

- 2010: Introduction of the TITAN CARGO PRO GAS series for the longest replacement intervals for gas engines in the commercial vehicle sector.
- 2011: Exclusive XTL® engine oil technology for commercial vehicles.
- 2016: Expansion of the performance profiles of our TITAN CARGO MAXX series with XTL® technology.
- 2019: TITAN CYTRAC FE SYNTH SAE 75W-85; The first commercial vehicle manual transmission oils released, MB 235.16.

3. GERMAN TECHNOLOGY

- As a family business we offer continuity for more than 85 years.
- Our corporate strategy is long-term and not interested in short-term success.
- The focus on our core competence makes us the world’s largest independent lubricant manufacturer.
- We invest for the future of our and your industry.

4. UK SERVICE

- There is always a permanent contact via your personal sales representative.
- In addition, FUCHS takes care of the disposal of the used oil.
- We co-operate with numerous suppliers so we can offer you suitable service equipment.
FUCHS LUBRICANTS has received various awards from German automobile manufacturers for its innovations, development competence, product quality and its effective project management.

Benefit from the outstanding experience of one of the leading development partners and lubricant manufacturers in Germany’s Automotive industry. Try us.

www.fuchs.com/uk
Innovative lubricants need experienced application engineers

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 engineers will be glad to advise on products for the application in question and also on our full range of lubricants.