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High-tech lubricants
for cars and
commercial vehicles

Edition 2/2012





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We therefore recommend that you consult a FUCHS EUROPE SCHMIERSTOFFE GMBH 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. With the publication of this product information, all previous editions cease to be valid.

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Committed to move your world. >>

Committed to move
your world



W O R L D W I D E



Established in 1931, FUCHS is the largest independent manufacturer of lubricants worldwide. FUCHS specialises and concentrates exclusively on lubricants and has achieved the outstanding position as one of the worldwide leaders in research and technology.

FUCHS is a world leader for energy-saving and environmentally friendly lubricants. Because of this specialisation, FUCHS can supply a comprehensive range of lubricant solutions for practically all applications.

FUCHS has a global presence. Over 50 FUCHS subsidiaries provide a dense network of lubricant know-how plus efficient distribution of lubricants and services.

Worldwide.

Our lubricant specialists are on the spot. >>

Leading competence
in automotive lubricants

C O M P E T E N C E



Photo: SUPPLIER AWARD/
Daimler AG



When a car, truck, van, construction machine or a tractor leaves the assembly line, at least one FUCHS lubricant will be utilised. As a development partner and supplier to original equipment manufacturer's we also have an outstanding position with the international automotive industry. The reasons for this are our comprehensive know-how, a broad range of products and, above all, great flexibility. Our customers appreciate this.

It is not without reason that we have received many awards from our costumers over the last years. We are able to meet rising demands with quality and quantity, and increasing specialisation with high creativity and performance.

For your benefit.

We move it right from the start. >>

New: A groundbreaking engine oil technology

T E C H N O L O G Y



XTL[®]
TECHNOLOGY



XTL-Video
for passenger cars



XTL-Video
for commercial vehicles

FUCHS, the leading German automotive factory-fill specialist, developed a new engine oil technology, which offers additional, long-term performance reserves.

The new FUCHS XTL[®] base oil technology with its extremely high viscosity index and outstanding ageing stability ensures faster oil circulation and significantly improved long-term performance.

While starting, engine oils with XTL[®] technology reach faster and easier the parts of an engine, which urgently require a protective oil film – even under extreme conditions and over the entire duration of the oil change interval. This means: Easier start-ups, less wear and lower fuel consumption. Even oil consumption is significantly lower than with conventional SAE 5W-30 oils.

Faster. Stronger. Better for your engine. >>

Top performance engine oils



P E R F O R M A N C E



As the preferred partner to the German automotive industry, FUCHS is a pace-setter for top performance. It requires the very best in motor oil technology to ensure that engines which are continuously improving, run reliably. For example: TITAN GT1 is the only zinc-free and fuel efficient SAE 0W-20 engine oil worldwide.

But it is not only reliability and innovation that count: TITAN top performance engine oils also ensure that operating costs are cut by reducing fuel and oil consumption and because they facilitate the longest oil change intervals. Anyone who has had to exchange a catalyser or carbon particle filter prematurely knows that engine oil quality is related to the

life span of these components.

The quality standards in the German automotive industry are the highest in the world. FUCHS meet and exceed these quality standards.

You can rely on that.

Engine oils >>



| Engine oils for passenger cars | | Specifications/ approvals | FUCHS recommendations |
|---|--|---|---|
| TITAN GT1 SAE 0W-20 | Premium Performance Engine Oil with new XTL®-technology in path-breaking viscosity class and globally unique Zinc-free Additive Technology, for high performance cars with gasoline and diesel engines. Specially designed for sportive driving and maximum power output. Extreme fuel-economy characteristics. Excellent cold starting behaviour. Outstanding performance reserves. | | ACEA C2 ACEA A5/B5 API SL ILSAC GF-4 |
| TITAN GT1 PRO FLEX SAE 5W-30 | Premium Performance Engine Oil with new XTL®-technology for maximum cold start ability and outstanding performance reserves. For modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for BMW, Mercedes-Benz and Opel vehicles with exhaust after treatment and turbocharger. | ACEA C3 API SN/SM BMW LONGLIFE-04 dexos2™ (GB2C0209075) MB-APPROVAL 229.51 VW 502 00/ 505 00/ 505 01 | ACEA A3/B4 FORD M2C917-A supersedes GM-LL- A-025 supersedes GM-LL- B-025 |
| TITAN GT1 PRO C-3 SAE 5W-30 | Premium Performance Engine Oil with new XTL®-technology for maximum cold start ability and outstanding performance reserves. For modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for BMW-, VW- and Mercedes-Benz vehicles with exhaust after treatment and turbocharger. | BMW LONGLIFE-04 MB-APPROVAL 229.51 PORSCHE C30 VW 504 00/ 507 00 | ACEA C3 ACEA A3/B4 FORD M2C917-A |
| TITAN GT1 SAE 5W-40 | Premium Performance Engine Oil with new XTL®-technology for maximum cold start ability and outstanding performance reserves. For modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for vehicles with exhaust after treatment and turbocharger. | ACEA C3 API SN/SM/CF FORD M2C917-A BMW LONGLIFE-04 MB-APPROVAL 229.31 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00/ 505 00/ 505 01 | ACEA A3/B4 FIAT 9.55535-S2 |
| TITAN GT1 PRO C-1 SAE 5W-30 | Premium Performance Engine Oil for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for vehicles with exhaust after treatment and turbocharger. Good cold starting, lower oil consumption and minimized exhaust emissions. | ACEA C1 | ACEA A5/B5 JASO DL-1 FORD WSS-M2C934-B MAZDA |
| TITAN GT1 PRO C-2 SAE 5W-30 | Premium Performance Engine Oil for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for PSA vehicles with exhaust after treatment and turbocharger. Good cold starting, lower oil consumption and minimized exhaust emissions. | ACEA C2 API SN/SM/CF PSA B71 2290 RENAULT RN0700 | ACEA A5/B5 FIAT 9.55535-S1 HONDA SUBARU SUZUKI TOYOTA |
| TITAN GT1 PRO C-4 SAE 5W-30 | Premium Performance Engine Oil for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially for Renault vehicles with exhaust after treatment and turbocharger. Good cold starting, lower oil consumption and minimized exhaust emissions. | ACEA C4 RENAULT RN0720 | |



| Engine oils for passenger cars | | Specifications/ approvals | FUCHS recommendations |
|---|---|---|--|
| TITAN Supersyn LONGLIFE PLUS SAE 0W-30 | Ultra High Performance, extreme fuel-economy engine oil formulated with fully synthetic base oil for VW engines. Specially developed for VW Longlife Technology. For all passenger car gasoline and diesel engines with or without pump injector technology. Excellent cold starting and lower oil consumption. | VW 503 00/ 506 01 | ACEA A5/B5 BMW LONGLIFE 01-FE VW 506 00 |
| TITAN Supersyn LONGLIFE SAE 5W-40 | Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Good cold starting and lower oil consumption. | ACEA A3/B4 API SN/SM/CF BMW LONGLIFE-01 MB-APPROVAL 229.5 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00/ 505 00 | GM-LL-B-025 HYUNDAI |
| TITAN Supersyn SAE 0W-30 | Ultra High Performance, extreme fuel-economy engine oil for a variety of vehicles with or without extended service intervals, formulated with fully-synthetic base oils. Excellent cold starting and lower oil consumption. | API SL/CF | ACEA A3/B4 MB 229.3 BMW LONGLIFE-98 VW 502 00/503 01/505 00 |
| TITAN Supersyn SAE 5W-30 | Ultra High Performance, extreme fuel-economy oil engine for a variety of vehicles with or without extended service intervals. Good cold starting and lower oil consumption. | ACEA A3/B4 API SL/CF MB-APPROVAL 229.3 VW 502 00/505 00 | BMW LONGLIFE-98 GM-LL-B-025 RENAULT RN0700 |
| TITAN Supersyn F SAE 5W-30 | Ultra High Performance, extreme fuel-economy engine oil for Ford vehicles. Good cold starting and lower oil consumption. | ACEA A5/B5 API SL/CF FORD M2C913-C | ACEA A1/B1 FORD M2C913-A FORD M2C913-B IVECO 18-1811 JAGUAR M2C913-B |
| TITAN Supersyn SAE 5W-40 | Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Good cold starting and lower oil consumption. | ACEA A3/B4 API SN/SM/CF MB-APPROVAL 229.3 PORSCHE A40 PSA B 71 2296 RENAULT RN0700/ RN0710 VW 502 00/505 00 | BMW LONGLIFE-98 FIAT 9.55535-H2/ M2/N2/Z2 |
| TITAN Supersyn SAE 5W-50 | Ultra High Performance Engine Oil for passenger cars. Good cold starting behaviour and low oil consumption. Highly durable lubricating film and high oil pressure. | | ACEA A3/B4 API SL/ CF |
| TITAN Supersyn SAE 10W-60 | Ultra High Performance Engine Oil for passenger cars. Low oil consumption. Highly durable lubricating film and high oil pressure. | | ACEA A3/B3 API SL/CF FIAT 9.55535-H3 |





| Engine oils for passenger cars | | Specifications/ approvals | FUCHS recommendations |
|---|--|--|--|
| TITAN SYN MC SAE 10W-40 | Super High Performance, fuel-economy engine oil based on MC-synthesis for a variety of gasoline and diesel engines in passenger cars. Lower oil consumption. | ACEA A3/B4 API SL/CF MB-APPROVAL 229.1 | BMW SPECIAL FIAT 9.55535-D2/G2 VW 500 00/505 00 |
| TITAN FORMULA SAE 15W-40 | High Performance Engine Oil specially for all normally aspirated and turbocharged gasoline and diesel engines in passenger cars operated under normal conditions. | ACEA A3/B3/B4 API SL/CG-4 MB-APPROVAL 229.1 | FIAT 9.55535-D2/G2 VW 501 01/505 00 |
| Engine oils for passenger cars with gas engines | | Specifications/ approvals | FUCHS recommendations |
| TITAN GT1 PRO GAS SAE 5W-30 | Premium Performance Gas Engine Oil for modern passenger cars and light commercial vehicles. Specially for gasoline engines with LPG- and CNG operation. Optimum engine cleanness, lower oil consumption and minimized exhaust emissions. | ACEA C3 API SM BMW LONGLIFE-04 dexos2™ (GB2C0209075) MB-APPROVAL 229.51 VW 502 00 | ACEA A3/B4 CHEVROLET FIAT 9.55535-G1 OPEL |
| TITAN GT1 PRO GAS SAE 5W-40 | Premium Performance Gas Engine Oil for modern passenger cars and light commercial vehicles. Specially for gasoline engines with LPG- and CNG operation. Optimum engine cleanness, lower oil consumption and minimized exhaust emissions. | ACEA C3 API SM BMW LONGLIFE-04 MB-APPROVAL 229.31 VW 502 00 | ACEA A3/B4 CITROËN FIAT 9.55535-H2/ N2/M2/S2/Z2 FORD PEUGEOT RENAULT |
| TITAN SYN PRO GAS SAE 10W-40 | Super High Performance Gas Engine Oil for passenger cars and light commercial vehicles. Specially developed for gas engines with LPG- and CNG operation. | ACEA A3/B4 API SL MB-APPROVAL 229.1 | BMW SPECIAL CHEVROLET FIAT 9.55535-G2 VW 500 00 |



| Engine oils for mixed fleets | | Specifications/ approvals | FUCHS recommendations |
|---|--|--|--|
| TITAN UNIMAX ULTRA MC SAE 10W-40 | Premium Performance Engine 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. | ACEA E7/B4/B3/A3 API CI-4 GLOBAL DHD-1 JASO DH-1 CUMMINS CES 20077/8 DETROIT DIESEL DDC 93K215 DEUTZ DQC III-10 MACK EO-M PLUS MAN M 3275-1 MB-APPROVAL 228.3 MB-APPROVAL 229.1 MB-APPROVAL 235.27 MTU DDC TYPE-2 RENAULT RLD / RLD-2 VOITH-RETARDER „A“ VOLVO VDS-3 | ALLISON C-4 CAT ECF-2 CUMMINS CES 20071/2/6 DAF VW 500 00/501 01 /505 00 |
| TITAN UNIMAX PLUS MC SAE 10W-40 | Ultra High Performance, fuel-economy engine 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 some manufacturers. Good cold starting and lower oil consumption. | ACEA E7/B3/A3 API CH-4 CUMMINS CES 20077 DEUTZ DQC II-10 MAN M 3275-1 MB-APPROVAL 228.3 MB-APPROVAL 229.1 MB-APPROVAL 235.27 MTU DDC TYPE-2 RENAULT RD / RD-2 VOITH-RETARDER „A“ VOLVO VDS-2 | ALLISON C-4 CUMMINS CES 20071/2/6 DAF MACK EO-M PLUS SCANIA |
| TITAN UNIVERSAL HD SAE 15W-40 | High Performance Engine Oil for mixed fleets operated under normal conditions. Good performance in normally aspirated and turbocharged diesel engines. | ACEA A3/B3/B4 API CG-4/CF/SL DEUTZ DQC I-02 MAN 271 MB-APPROVAL 228.1 MB-APPROVAL 229.1 MTU DDC TYPE-2 | ACEA E2 MIL-L-2104 E ALLI- SON C-4 CASE MS 1120 DAF MACK EO-L NH 330 G SCANIA STEYR A-202 VOLVO VDS VW 501 01/505 00 |



| Engine oils for commercial vehicles | | Specifications/ approvals | FUCHS recommendations |
|---|---|---|--|
| TITAN CARGO MAXX SAE 5W-30  | Premium MAXX Performance Engine Oil with new XTL®-technology. Specially developed for vehicles with modern exhaust after treatment and turbo-charger. Best cold starting properties and ageing stability for optimal fuel-economy over the whole drain-interval. | ACEA E6 DEUTZ DQC IV-10 LA MACK EO-N MAN M 3477 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RXD/RLD2 VOLVO VDS-3 | ACEA E7 |
| TITAN CARGO MAXX SAE 10W-40  | Premium MAXX Performance Engine Oil with new XTL®-technology. Specially developed for vehicles with modern exhaust after treatment and turbocharger. Very good cold starting properties and ageing stability for optimal fuel-economy over the whole drain-interval. | ACEA E9/E7/E6 API CI-4 CATERPILLAR ECF-1-a DEUTZ DQC IV-10 LA MACK EO-M PLUS MACK EO-N MAN M 3271-1 MAN M 3477 MB-APPROVAL 228.51 / 235.28 MTU DDC TYPE 3.1 RENAULT RXD/RGD/RLD-2 VOITH-RETARDER „B“ VOLVO VDS-3 / CNG | CUMMINS CES 20077 DAF MAN M 3277 CRT |
| TITAN CARGO MAXX LD SAE 10W-40 | Premium MAXX Performance, fuel-economy engine oil for highly-loaded commercial vehicle diesel and gas engines. Specially developed to match the requirements of the SCANIA Low Ash specification for EURO V engines fitted with Diesel particulate filter (DPF). Good cold starting, lower oil consumption and minimized exhaust emissions. | ACEA E7/E6/E4 API CI-4 JASO DH-2 SCANIA LA | |
| TITAN CARGO SL SAE 5W-30 | Ultra High Performance, extreme fuel-economy engine oil for a variety of commercial vehicle diesel engines, formulated with fully-synthetic base oils. Specially developed for extended service intervals. Optimum cold starting and lower oil consumption. | ACEA E7/E4 CUMMINS CES 20077 DEUTZ DQC III-10 MAN M 3277 MB-APPROVAL 228.5 MTU DDC TYPE-3 RENAULT RXD/RLD-2 VOLVO VDS-3 | IVECO 18-1804 TFE SCANIA LDF-2 |



| Engine oils for commercial vehicles | | Specifications/ approvals | FUCHS recommendations |
|--------------------------------------|---|---|--|
| TITAN CARGO MC SAE 10W-40 | Ultra High Performance, fuel-economy engine 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. | ACEA E7/E4 API CI-4 CUMMINS CES 20077/8 DEUTZ DQC III-10 MACK EO-M PLUS MACK EO-N MAN M 3277 MB-APPROVAL 228.5 MB-APPROVAL 235.27 MTU DDC TYPE-3 RENAULT RXD/RLD-2 SCANIA LDF-2 VOITH-RETARDER „A“ VOLVO VDS-3 | DAF IVECO 18-1804 SDFG OM-1901A |
| TITAN CARGO SAE 5W-40 | Ultra High 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 CJ-4 CAT ECF-2/ECF-3 CUMMINS CES 20081 DETROIT DIESEL DDC 93K218 DEUTZ DQC II-10 LA MACK EO-O PREMIUM PLUS MAN M 3575 MB-APPROVAL 228.31 RENAULT RLD-3 VOLVO VDS-4 | DETROIT DIESEL DDC 93K214 DDC 93K215 |
| TITAN CARGO SAE 15W-40 | 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. | ACEA E9/E7 API CJ-4/CI-4 PLUS/CI-4 CAT ECF-2/ECF-3 CUMMINS CES 20081 DEUTZ DQC III-10 LA DETROIT DIESEL DDC 93K218 MACK EO-O PREMIUM PLUS MAN M 3575 / 3275-1 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4 | ALLISON C-4 |



| Engine oils for commercial vehicles | | Specifications/ approvals | FUCHS recommendations |
|--|---|--|---|
| TITAN TRUCK PLUS SAE 15W-40 | Super High Performance Engine Oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption. | <p>ACEA E7, API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2</p> <p>CUMMINS CES 20076/7/8 DEUTZ DQC III-10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE-2 RENAULT RLD / RLD-2 VOLVO VDS-3</p> | <p>ACEA A3/B4 ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2 DAF IVECO 18-1804 CLASSE T2 E7 NH 330 H STEYR A-201</p> |
| TITAN TRUCK SAE 15W-40 | Super High Performance Engine Oil for a variety of diesel engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption. | <p>ACEA E7 API CH-4/SL GLOBAL DHD-1</p> <p>CUMMINS 20076/7 DEUTZ DQC II-10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE-2 RENAULT RD/RD-2 VOLVO VDS-2</p> | <p>ACEA A3/B4 CAT ECF-1-a DAF SCANIA</p> |



| Monograde engine oils | | Specifications/ approvals | FUCHS recommendations |
|--|---|---|--|
| TITAN UNIVERSAL HD SAE 10W | High Performance monograde oils for gasoline and diesel engines. Specially developed for off-road vehicles. Depending upon manufacturer regulation also in other aggregates applicable. | <p>ACEA E2 API CF-4/SG</p> <p>MAN 270 MB-APPROVAL 228.0 ZF TE-ML 03B</p> | <p>MIL-L-2104 D ALLI- SON C-4 CAT TO-2 ZF TE-ML 02C</p> |
| TITAN UNIVERSAL HD SAE 20W-20 | High Performance Monograde Engine Oil for gasoline and diesel engines. Specially developed for off-road vehicles. Depending upon manufacturer regulation also in other aggregates applicable. | <p>ACEA E2 API CF-4/SG</p> <p>MAN 270 MB-APPROVAL 228.0 MB-APPROVAL 235.27 VOITH-RETARDER „A“</p> | <p>MIL-L-2104 D ALLI- SON C-4 CAT TO-2 ZF TE-ML 02C</p> |
| TITAN UNIVERSAL HD SAE 30 | High Performance Monograde Engine Oil for gasoline and diesel engines. Specially developed for off-road vehicles. Depending upon manufacturer regulation also in other aggregates applicable. | <p>ACEA E2 API CF-4/SG</p> <p>DEUTZ DQC I-02 MAN 270 MB-APPROVAL 228.2 MTU DDC TYPE-2 ZF TE-ML 04B</p> | <p>MIL-L-2104 D ALLI- SON C-4 CAT TO-2 ZF TE-ML 02C</p> |
| TITAN UNIVERSAL HD SAE 40 | High Performance Monograde Engine Oil for gasoline and diesel engines. Specially developed for off-road vehicles. Depending upon manufacturer regulation also in other aggregates applicable. | <p>ACEA E2 API CF-4/SG</p> <p>DEUTZ DQC I-02 MAN 270 MB-APPROVAL 228.2 MB-APPROVAL 235.12 MTU DDC TYPE-2 ZF TE-ML 04B</p> | <p>API CF-2 MIL-L-2104 D ALLI- SON C-4 CAT TO-2 ZF TE-ML 02C</p> |
| TITAN UNIVERSAL HD SAE 50 | High Performance Monograde Engine Oil for gasoline and diesel engines. Specially developed for off-road vehicles. Depending upon manufacturer regulation also in other aggregates applicable. | <p>ACEA E2 API CF-4/SG</p> <p>DEUTZ DQC I-02 MAN M 3275-2 MB-APPROVAL 228.0</p> | <p>MIL-L-2104 D ALLI- SON C-4 CAT TO-2 ZF TE-ML 02C</p> |
| TITAN UNIVERSAL HD SAE 30 MTU | Dedicated break in engine oil for MTU diesel and gas engines, developed to improve operating characteristics with enhanced corrosion protection. | <p>MTU DDC TYPE-1</p> | |



| Gas engine oils | | Specifications/ approvals | FUCHS recommendations |
|------------------------------|---|--|------------------------------------|
| TITAN GANYMET ULTRA | Premium Performance Engine Oil, zinc-free, for stationary gas engines. | AGROGEN JENBACHER TA 1000-1109 - series 2, 3, 4 and 6 (gas category A, CAT) - series 2 and 3 (gas category B) MAN M 3271-4 MDE / MTU Onsite Energy (natural gas, propane gas, biogas, sewage gas, landfill gas) MWM (DEUTZ POWER SYSTEMS) SEVA SPANNER RE' | |
| TITAN GANYMET PLUS | Super High Performance Engine Oil, zinc-free, for stationary gas engines. | DEUTZ POWER SYS- TEMS / MWM DREYER & BOSSE JENBACHER TA 1000- 1109 -series 2 and 3 (gas category B) MDE / MTU Onsite En- ergy (biogas, sewage gas, landfill gas) SCHNELL MOTOREN until MY 12/2005 SEVA | |
| TITAN GANYMET PLUS LA | „Low Ash“ Super High Performance Engine Oil, zinc-free, for stationary gas engines. | DEUTZ POWER SYS- TEMS / MWM SEVA TEDOM 263.2-1P | CATERPILLAR CUMMINS WAUKESHA |
| TITAN GANYMET | High Performance Engine Oil for stationary gas engines. | JENBACHER TA 1000- 1109 -series 2 and 3 (gas category C) MAN M 3271-4 MDE / MTU Onsite En- ergy (biogas, sewage gas, landfill gas) SEVA | |
| TITAN GANYMET LA | „Low Ash“ High Performance Engine Oil for stationary gas engines. | DEUTZ POWER SYS- TEMS / MWM JENBACHER TA 1000- 1109 - series 2 and 3 (gas category A, CAT) MAN M 3271-2 MDE / MTU Onsite Energy (natural gas, pro- pane gas) SEVA | CATERPILLAR CUMMINS WAUKESHA |



| Two-stroke engine oils | | Specifications/ approvals | FUCHS recommendations |
|---------------------------------|---|--------------------------------|--|
| TITAN 2T 100 S | Ultra High Performance 2T-Engine Oil for Autolube and Premix systems formulated with fully synthetic base oils. Recommended for manufacturer's mixing ratios up to 1:100. | API TC JASO FD ISO-L-EGD | TISI |
| TITAN 2T S | Super High Performance 2T-Engine Oil. Mixes rapidly. Suitable for Autolube as well as Premix systems. | API TC JASO FC ISO-L-EGC | |
| TITAN 2T M | High Performance 2T-Engine Oil. Mixes rapidly. Suitable for Autolube as well as Premix systems. | API TC | |
| 4-Stroke Marine Engine Oils | | Specifications/ approvals | FUCHS recommendations |
| TITAN MARINE FC-W 10W-30 | Super High Performance engine lubricant for marine leisure 4-stroke gasoline engines, in accordance with the latest requirements of NMMA. | NMMA FC-W | BOMBARDIER EVINRUDE HONDA JOHNSON MERCURY SEADOO SUZUKI YAMAHA |
| 2-Stroke Marine Engine Oils | | Specifications/ approvals | FUCHS recommendations |
| TITAN MARINE TC-W 3 | Ultra High Performance engine lubricant for marine leisure 2-stroke engines, in accordance with the latest requirements of NMMA. | NMMA TC-W3 | BOMBARDIER EVINRUDE JOHNSON KAWASAKI MARINER MERCURY SEADOO SUZUKI TOHATSU YAMAHA |



FUCHS TITAN gear oils were developed specially for the most advanced gearboxes and power transmissions. There is a FUCHS grade for any TYPE of transmission e.g. manual 6-speed gearboxes, twin or sequential car transmissions, 7-speed fully automatic transmissions, CVT transmissions or electronic transmission management for trucks. The FUCHS high-performance gear oils meet the highest standards and specifications and ensure reliable, continuous operation ensuring

low wear and low frictional loss.

This is a result of the development partnerships between FUCHS and the world's leading gearbox manufacturers. With the synthetic TITAN gear oils FUCHS applied special additive technologies and uses highly developed base oils. With their outstanding performance they can be used for almost any gearbox, particularly under extreme conditions.

The benefits are: outstanding low temperature properties and

easy gear changing, the lowest possible degree of wear and tear and therefore the longest service life, extremely high pressure resistance and offering great reliability plus optimal corrosion protection.

Insist on quality and reliability.
Insist on FUCHS.

Gear oils >>



| Gear oils for commercial vehicles | | Specifications/ approvals | FUCHS recommendations |
|--|--|---|--|
| TITAN CYTRAC SL SAE 75W-90 | Premium Performance Gear Oil for highly-stressed hypoid axles in commercial vehicles formulated with fully-synthetic base oils. Developed for the longest oil change intervals in commercial vehicle axle drives. | API GL-5 SCANIA STO 1:0 MAN 342 TYPE S1 ZF TE-ML 05B, 12B, 16F, 17B | JOHN DEERE JDM J 11 E/G MB 235.8 VOLVO 97312 ZF TE-ML 07, 08 |
| TITAN CYTRAC MB SYNTH SAE 75W-90 | Premium Performance Gear Oil for extended drain intervals 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 |
| TITAN CYTRAC MAN SYNTH SAE 75W-80 | Premium Performance Gear Oil for extended drain intervals in commercial vehicles manual gearboxes, specially developed for manual and automatic ZF-gearboxes, formulated with fully-synthetic 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 ZF TE-ML 01L, 02L, 16K | DAF EATON IVECO RENAULT VOLVO 97307 |
| TITAN CYTRAC LD SAE 75W-80 | Ultra High Performance Gear Oil for extended oil change intervals in commercial vehicles fitted with integral interaxle or supplementary retarders. | API GL-4 EATON MAN 341 TYPE E3 | DAF VOLVO 97305 MAN 341 TYPE Z3 ZF TE-ML 02D, 08 |
| TITAN CYTRAC HSY SAE 75W-90 | Ultra High Performance Gear Oil for commercial vehicle manual transmissions and axle drives formulated with fully-synthetic base oils. | API GL-4/GL-5 ZF TE-ML 05B, 12B, 16F, 17B, 19C, 21B | DAF MAN M 3343 TYPE S JOHN DEERE JDM J 11 E/G SCANIA STO 1:0 ZF TE-ML 07 |
| TITAN GEAR HYP LD SAE 80W-90 | Super High Performance Gear Oil specially developed for Mercedes-Benz commercial vehicles. Offering enhanced thermal stability and fuel-economy potential. | API GL-5 API MT-1 MAN 342 TYPE M3 MB-APPROVAL 235.20 ZF TE-ML 05A, 12E, 16B, 17B, 19B, 21A | MIL-PRF-2105 E ARVIN MERITOR AXLES MACK GO-J JOHN DEERE JDM J 11 E SCANIA STO 1:0 ZF TE-ML 07A |



| Gear oils for passenger cars and commercial vehicles | | Specifications/ approvals | FUCHS recommendations |
|--|--|---|--|
| TITAN SUPERGEAR MC SAE 80W-90 | Super High Performance Gear Oil based on MC-Synthesis for extended oil change intervals. | API GL-4/GL-5 SCANIA STO 1:0 MAN M 3343 TYPE M MAN 341 TYPE E2 MB-APPROVAL 235.0 ZF TE-ML 02B, 05A, 12E, 16B, 17B, 19B, 21A | CASE MS 1316 FORD M2C197-A JOHN DEERE JDM J 11 E NH 520 A SDFG OP 1705 STEYR B-101 ZF TE-ML 07, 08 |
| TITAN SUPERGEAR MC SAE 80W-140 | Super High Performance Gear Oil based on MC-Synthesis for extended oil change intervals. | API GL-4/GL-5 SCANIA STO 1:0 | JOHN DEERE JDM J 11 E OPEL 19 42 386 RENAULT VI ZF TE-ML 08 |
| TITAN SUPERGEAR SAE 80W-90 | High Performance Gear Oil for extended oil change intervals. | API GL-4/GL-5 MAN M 342 TYPE M2 ZF TE-ML 05A, 12E, 16B, 17B, 19B | MIL-L-2105 D |
| TITAN SUPERGEAR SAE 85W-140 | High Performance Gear Oil for extended oil change intervals. | API GL-4/GL-5 ZF TE-ML 05A, 12E, 16D | MIL-L-2105 D |
| TITAN GEAR LS SAE 90 | High Performance LS (Limited Slip) Hypoid Gear Oil for axles in commercial vehicles and passenger cars with or without limited slip differentials. | API GL-5 ZF TE-ML 05C, 12C, 16E, 21C | MIL-L-2105 D FORD M2C104-A JOHN DEERE JDM J 11 F LIEBHERR NH 520 B |
| TITAN GEAR MP 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 MAN 341 TYPE E1 MAN 341 TYPE Z2 MB-APPROVAL 235.1 ZF TE-ML 02B, 17A | BMW 81 22 9 407 052 BMW 81 22 9 407 053 EATON FORD M2C9008-A VW TL 726 ZF TE-ML 08 |
| TITAN GEAR MP SAE 90 | 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 MAN 341 TYPE Z1 | |
| TITAN GEAR HYP SAE 90 | High Performance Gear Oil for highly-stressed differentials in commercial vehicles and passenger cars. | API GL-5 MAN 342 TYPE M1 MB-APPROVAL 235.0 ZF TE-ML 05A, 16C, 17B, 19B, 21A | FORD M2C9102-A JOHN DEERE JDM J 11 E OPEL 19 42 387 VW TL 727 ZF TE-ML 07, 08 |



| Multifunctional gear oils for construction machinery | | Specifications/ approvals | FUCHS recommendations |
|--|---|---|--|
| TITAN UTTO PRO | Ultra High Performance Multifunctional Oil for gears, axles and hydraulic systems with improved wear protection and wide range of application temperatures. | API GL-4 SAE J 306: 75W-80 VOLVO WB 101 | ALLISON C-4 CASE MS 1207/1209/1210 FORD M2C86-C FORD M2C134-D JOHN DEERE JDM J 20 C / D KOMATSU AXO 80 (KES 07.866) KUBOTA UDT FLUID MASSEY FERGUSON CMS 1135 / 1143 VOLVO WB 102 ZF TE-ML 03E, 03F, 05F, 06K |
| TITAN UTTO PLUS SAE 5W-30 | Ultra High Performance Multifunctional Oil for gears, axles and hydraulic systems on construction and agricultural machinery with or without wet brakes and limited slip differentials. | SAE J300: 5W-30 SAE J306: 80 | CASE MS 1207/1209/1210 FORD M2C86-C/ M2C134-D JOHN DEERE JDM J 20 C/D; JDM J 14 KOMATSU KES 07.866 KUBOTA UDT FLUID MASSEY FERGUSON CMS 1135/ 1143 STEYR 397.88.0001 VOLVO WB 101 |
| TITAN UTTO ZF | Super High Performance Multifunctional Oil for ZF axles with limited-slip differentials. Recommended for construction machinery and material-handling vehicles axles. | ZF TE-ML 05F, 06K, 17E, 21F | JOHN DEERE JDM J 14 A/C KOMATSU-HANOMAG VOLVO WB 101 ZF TE-ML 03E |
| TITAN UTTO TO-4 | Super High Performance Multifunctional transmission and drive-train lubricant for construction machinery. | API GL-4 CAT TO-4 KOMATSU KES 07.868.1 ZF TE-ML 03C, 07F | ALLISON C-4 DANA EATON |



| Gear oils for passenger cars | | Specifications/ approvals | FUCHS recommendations |
|---------------------------------------|--|--|--|
| TITAN SINTOFLUID FE SAE 75W | Premium Gear Oil offering increased gearbox efficiency in passenger cars due to low viscosity level. Reduces fuel consumption and offers best properties at low temperature. Suitable as fill for life fluid according to manufacturer. | API GL-4 | VW TL 521 71 (G 052 171 A1/A2) VW TL 521 78 (G 052 178 A2), VW TL 525 12 (G 052 512 A2), VW TL 726 (G 052 726 A2/ G 055 726 A2/ G 060 726 A2/ G 070 726 A2) |
| TITAN SINTOFLUID SAE 75W-80 | Premium Gear Oil for passenger cars. Offering good gearbox efficiency. Suitable as fill for life fluid according to manufacturer. | API GL-5 | MIL-L-2105 D ALFA ROMEO BMW 83 22 0 309 031 BMW 83 22 0 403 247 BMW 83 22 7 533 818 BMW 2300 1434 404 BMW 2300 7533 513 BMW 2300 7533 818 CITROËN FIAT FORD M2C200-C/ C2/ C3 LANCIA OPEL 19 40 182, 19 40 757, 19 40 768, 19 40 776 PEUGEOT RENAULT VOLVO 97308 VW 501 50 (G 005 000 05/ G 005 000/ G 005 000 20/ G 052 911 A1/A2) |
| TITAN SINTOPOID FE SAE 75W-85 | Premium Gear Oil offering increased gearbox efficiency in passenger cars due to low viscosity level, formulated with fully-synthetic base oils. Reduces fuel consumption and offers best properties at low temperature. Suitable as fill for life fluid according to manufacturer. | API GL-5 MB-APPROVAL 235.7 ZF TE-ML 18 | ALFA ROMEO BMW FIAT LANCIA VW TL 521 45-X (G 052 145 A1) VW TL 521 90 (G 052 190 A2/ G 055 190 A2) |
| TITAN SINTOPOID SAE 75W-90 | Premium Gear Oil for passenger cars. Offering good gearbox efficiency. Suitable for high-offset hypoid drives. Suitable as fill for life fluid according to manufacturer. | API GL-5 | MIL-L-2105 D BMW VW TL 521 45-Y (G 052 145 A2) |
| TITAN SINTOPOID LS SAE 75W-90 | Premium fully-synthetic multifunctional gear oil. Suitable for axles and transfer gear-boxes with or without self locking differentials and also as trouble shooter for conventional manual transmissions. | API GL-4/-5/-5 incl. LS | VW G50 / G51 |
| TITAN SINTOPOID LS SAE 75W-140 | Premium Gear Oil for axle and transfer gearboxes, formulated with fully-synthetic base oils. Suitable for axle and transfer gearboxes with and without limited slip differential. | API GL-5 | BMW 83 22 2 282 583 BMW 83 22 9 407 870 CHRYSLER MS-8985 FORD M2C192-A GM 12346140 JOHN DEERE JDM J 11 G SCANIA STO 1:0 |



| Automatic Transmission Fluids (ATF) | | Specifications/ approvals | FUCHS recommendations |
|-------------------------------------|---|--|--|
| TITAN ATF 7134 FE | Premium Performance ATF with reduced viscosity, especially developed to further optimize fuel economy and gearbox efficiency of latest generation Mercedes-Benz 7-speed automatic transmissions. Not downwards compatible with previous MB-ATF-Specifications. | MB-APPROVAL 236.15 | |
| TITAN ATF 6000 SL | Premium Performance ATF offering maximum performance in passenger car applications such as automatic transmissions with torque converters or wet clutches as well as power steering systems. Formulation is licensed according to DEXRON VI and downwards compatible to any former DEXRON-specification. | DEXRON VI VOITH H55.6335.XX | BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 81 22 9 407 738 BMW 83 22 0 397 114 BMW 83 22 0 403 248 BMW 83 22 0 403 249 BMW 83 22 0 432 807 BMW 83 22 9 407 858 BMW 83 22 9 407 859 |
| TITAN ATF 5005 | Premium Performance ATF for automatic transmission in motor vehicles. Outstanding base oil quality for optimal cold temperature properties and high ageing stability. Durable friction properties for excellent wet clutch performance. | MAN 339 TYPE V2 MAN 339 TYPE Z2 MB-APPROVAL 236.6 VOITH H55.6336.XX ZF TE-ML 04D, 14B, 16L, 17C | DEXRON III (H) ALLISON TES 295 ALLISON TES 389 BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 83 22 0 403 248 BMW 83 22 9 407 738 BMW 83 22 9 407 807 BMW 83 22 9 407 858 BMW 83 22 9 407 859 FORD MERCON V MAN 339 TYPE Z3 OPEL 19 40 707 VOLVO 97341 VW TL 521 62 (G 052 162) ZF TE-ML 02F, 11B, 14C |
| TITAN ATF 5000 SL | Premium Performance ATF for automatic transmission in motor vehicles, power steering systems and torque converters formulated with fully synthetic base oils. Surpasses the low-temperature demands of DEXRON II (E). Longest oil drain intervals in commercial vehicles. Provides optimum and smooth shifting characteristics at all temperatures, also in passenger car applications. | MAN 339 TYPE V2 MAN 339 TYPE Z2 MB-APPROVAL 236.8 VOITH H55.6336.XX ZF TE-ML 04D, 09X, 14B,16L | DEXRON II (E) ALLI- SON C-4 FORD MERCON RENK-DOROMAT |



| Automatic Transmission Fluids (ATF) | | Specifications/ approvals | FUCHS recommendations |
|-------------------------------------|---|--|--|
| TITAN ATF 4400 | Ultra High Performance ATF specifically formulated for Japanese passenger cars and light commercial vehicles. The high torque capacity exceeds the performance of many original fluids. | JASO M315 TYPE 1A | DEXRON III AISIN WARNER/AW-1 BMW MINI 83 22 0 402 413 83 22 7 542 290 CHRYSLER ATF +3/+4 DAEWOO DAIHATSU ALUMIX ATF MULTI FIAT TYPO T-IV FORD MERCON FORD M2C924-A/ M2C922-A1 GM 9986195 HONDA ATF Z-I HYUNDAI SP III, SP IV ISUZU BESCO ATF-IV-III JATCO 3100 PL085/FWD (N402)/ JF506E (K17) JWS 3309/TYPTE T-IV KIA SP-IV MAZDA ATF D-III/M-3 MITSUBISHI SP-II-III NISSAN MATIC C/D/J SAAB 3309 SUBARU ATF OIL/ SPECIAL/HP SUZUKI ATF 3309/3317 TOYOTA TYPE T/T-II/ T-III/T-IV/D-2/W5 VW G 052 990/055 025 |
| TITAN ATF 4134 | Ultra High Performance ATF, specially developed to optimise shifting performance of Mercedes-Benz automatic transmissions. | MB-APPROVAL 236.14 SSANG YONG (MB- Automatic transmis- sions) | |
| TITAN ATF 4000 | Ultra High Performance ATF for use in auto- matic transmissions as well as other ATF appli- cations. Licensed according to DEXRON III (H). Improved low-temperature shifting compared to DEXRON II. | ALLISON C-4 ALLISON TES 389 DEXRON III (H) MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 VOITH H55.6335.XX VOLVO 97341 ZF TE-ML 04D, 14A, 17C | 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 09, 11B |



| Automatic Transmission Fluids (ATF) | | Specifications/ approvals | FUCHS recommendations |
|-------------------------------------|---|---|---|
| TITAN ATF CVT | Ultra High Performance fluid specially designed for use in many CVT-gearboxes using push-belts or transmission chains made of steel. | MB-APPROVAL 236.20 FORD WSS-M2C928-A | BMW 83 22 0 136 376 BMW 83 22 0 429 154 NISSAN NS-2 TOYOTA TC VW TL 521 80 (G 052 180) |
| TITAN ATF 3353 | Ultra High Performance DEXRON III-generation-ATF for automatic transmissions as well as any other ATF-applications. Developed for the MB automatic transmissions and transfer cases according manufacturer. Offers fuel-efficiency potential. | MB-APPROVAL 236.12 VW TL 525 33 (G 052 533) | DEXRON III BMW 83 22 9 407 765 BMW 83 22 9 407 807 FORD M2C195-A FORD M2C202-B FORD M2C922-A1 SSANG YONG |
| TITAN ATF 3000 | Super High Performance DEXRON II (D) ATF for all automatic transmissions in commercial vehicles, machinery and passenger cars according to manufacturer's documentation. | MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 VOITH H55.6335.XX ZF TE-ML 02F, 03D, 04D, 14A, 17C | DEXRON II (D) ALLI- SON C-4 BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 81 22 9 407 738 CAT TO-2 FORD MERCON FORD M2C185-A FORD M2C138-CJ FORD M2C166-H FORD M2C9010-A OPEL 19 40 700 OPEL 19 40 707 RENK-DOROMAT VOLVO VW ZF TE-ML 09, 11A |
| TITAN ATF 10 | High Performance ATF for transmissions, power steering systems and hydraulic drives which require a GM-specification TYPE A, Suffix A fluid. | MB-APPROVAL 236.2 | TASA MAN 339 TYPE A |



| Central hydraulic fluids/steering transmission oil | | Specifications/ approvals | FUCHS recommendations |
|--|--|--|--|
| TITAN ZH 4300 B | Premium Performance Central Hydraulic Oil formulated with fully-synthetic base oils. | MAN M 3289 | BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 CHRYSLER MS-11655b FORD M2C204-A OPEL 19 40 715 OPEL 19 40 766 PSA S71 2710 VOLVO 1161529 VW TL 521 46 (G 002 000/A7/A8/G 004 000) |
| TITAN ZH 5364 B | Premium Performance Central Hydraulic Oil approved by Mercedes-Benz for level control systems in passenger cars formulated with fully-synthetic base oils. | MB-APPROVAL 344.0 | |
| TITAN ZH 3044 | Ultra High Performance Power Steering and Central Hydraulic Oil for automotive applications. | CHRYSLER MS-11655b VW TL 52519-B | AUDI/VW G 004 000 M2 PORSCHE 000 043 206 56 SAAB 93160548 VOLVO 307 414 24 |
| TITAN ZH LHM PLUS | Ultra High Performance Central Hydraulic Oil specially designed for the use in Citroen and Peugeot vehicles. | | ISO 7308 BMW 81 22 9 407 549 CASE FIAT 9.55597 IVECO 18-1823 MASSEY FERGUSON NH 610 A PSA B71 2710 SDFG OF16115 |
| TITAN PSF | Super High Performance power steering fluid approved by Mercedes-Benz for passenger cars and commercial vehicles. | MB-APPROVAL 236.3 | |
| Hydraulic oils | | Specifications/ approvals | FUCHS recommendations |
| TITAN HYD MR 530 MC | Ultra High Performance Multigrade Hydraulic Oil for construction machinery as well as diverse motor vehicle applications. | HVLPD covers SAE 5W to 30 or ISO VG 22-68 (100) | |
| TITAN HYD 1030 | Super High Performance Multigrade Hydraulic Oil for general machinery and motor vehicle applications. | HVLP according to DIN 51524-3 HV according to ISO 11158 | CASE MS 1216 |



Almost nobody understands engines, gearboxes and hydraulics better than FUCHS. As the world's largest independent manufacturer of lubricants, we concentrate exclusively on lubricants. This has made us the largest OEM in the German commercial vehicle industry and to a leading partner in the agricultural sector. Because we know and understand the technical demands, we can always offer you the best possible product. For all of your lubricant demands. All the time.

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| AGRIFARM STOU oils | | Specifications/ approvals | FUCHS recommendations |
|--|--|---|---|
| AGRIFARM STOU MC PRO SAE 10W-40 | Ultra High Performance Multifunctional Oil (STOU/MFO) of the latest generation for agricultural vehicles. | SAE J300: SAE 10W-40 DEUTZ DQC III | ACEA E7(E5/E3),E4 API CI-4, API GL-3/GL-4/API GL-5 in tractors* MAN 3275 AFNOR NFE 48603 HV ALLISON C-4 CASE MS 1207, 1209, 1210, 1230 CNH MAT 3505, 3509, 3525, 3526 DIN 51524-3: HVLP (-D) FNHA 2C-200.00, 201.00 FORD M2C48-C3, M2C86-B, M2C134-D, M2C159-B/C JOHN DEERE JDM J20 C NEW HOLLAND 82009201/2/3 NH 030C, NH 330G, HN 330H, NH 410B, HN 420A, NH 526C MASSEY FERGUSON CMS M 1145 (1135/1139/1143/1144) ZF TE-ML 06A, 06B, 06C, 06F, 06L, 07B * without HOLMER |
| AGRIFARM STOU MC SAE 10W-30 | MC-synthesis Super High Performance Multifunctional fuel-economy oil (STOU/MFO) for engines, manual gearboxes, wet brakes, hydraulics and turbo-drives in tractors and other agricultural machinery. | SAE J300: SAE 10W-30 SAE J306: SAE 75W-80 API CG-4 API GL-4 DEUTZ DQC I ZF TE-ML 06B, 06F, 07B | AFNOR NFE 48603 HV DIN 51524-3: HVLP (-D) ACEA E3 ALLISON C-4 CASE MS 1207 / 1209 / 1210 / 1230 CNH MAT 3505 / 3509 / 3525 / 3526 FORD M2C48-C3, M2C86-B, M2C134-D, M2C159-B/C JOHN DEERE JDM J20 C NH 82009201/2/3 NH 410 B NH 420 A MASSEY FERGUSON CMS M 1145 (1135/1139/1143/1144) ZF TE-ML 06A, 06C |



| AGRIFARM STOU oils | | Specifications/ approvals | FUCHS recommendations |
|------------------------------------|---|--|--|
| AGRIFARM STOU MC SAE 10W-40 | Super High Performance Multifunctional low-friction oil (STOU / MFO) based on MC-base-oil technology for engines, manual gearboxes, wet brakes, hydraulics and turbo-drives in tractors and other agricultural and other commercial vehicles. | SAE J300: SAE 10W-40 SAE J306: SAE 75W-90 API CG-4 API GL-4 DEUTZ DQC I FENDT KDM 41.2011 ZF TE-ML 06B, 06F, 07B | API GL-5 in tractors* ACEA E3 MAN 271 AFNOR NFE 48603 HV ALLISON C-4 CASE MS 1207, 1209, 1210, 1230 CNH MAT 3505, 3509, 3525, 3526 DIN 51524-3: HVLP (-D) FORD M2C134-D M2C159-B/C FNHA 2C-200.00, 201.00, FORD M2C48-C3, M2C-86 B John Deere JDM J 20 C NEW HOLLAND 82009201/2/3 NH030C, NH330G, NH410B, NH420A, NH 526C MASSEY FERGUSON CMS M 1145 (1135/1139/1143/1144) ZF TE-ML 06A, 06C, 06L * without HOLMER |
| AGRIFARM STOU SAE 15W-30 | High Performance Multifunctional Oil (STOU / MFO) for engines, manual gearboxes, wet brakes, hydraulics in tractors and other agricultural equipment. | API CF-4 API GL-4 | ACEA E2 CNH MAT 3525, 3526 DIN 51524 : HLP (-D) FNHA 200.00, 201.00 FORD M2C134-D, M2C159-B/C JOHN DEERE JDM J 20 C MASSEY FERGUSON CMS M 1145 (1135/1139/1143/1144) NH 82009201/2/3 NH 420 A SDFG OU 1391, OT 1891 STEYR D-401 ZF TE-ML 06A, 06B, 06C, 07B |
| AGRIFARM STOU SAE 15W-40 | High Performance Multifunctional Oil (STOU / MFO) for engines, manual gearboxes, wet brakes, hydraulics in tractors and other agricultural equipment. | API CF-4 API GL-4 FENDT KDM 41.2011 | ACEA E2 CNH MAT 3525, 3526 DIN 51524 : HLP (-D) FNHA 200.00, 201.00 FORD M2C134-D, M2C159-B/C JOHN DEERE JDM J 20 C MASSEY FERGUSON CMS M 1145 (1135/1139/1143/1144) NH 82009201/2/3 NH 420 A SDFG OU 1391, OT 1891 STEYR D-401 ZF TE-ML 06A, 06B, 06C, 07B |



| AGRIFARM engine oils | | Specifications/ approvals | FUCHS recommendations |
|------------------------------------|--|---|---|
| AGRIFARM MOT SAE 10W-40 | Ultra High Performance Engine Oil of the latest conception of the SAE grade 10W-40. It was developed for advanced diesel engines which made high demands on service intervals and engine cleanliness. Specially recommended for normally aspirated and turbocharged engines. | <p>ACEA E7 API CI-4 GLOBAL DHD-1 JASO DH-1</p> <p>DEUTZ DQC III</p> | <p>ALLISON C-4 CAT ECF-2 CUMMINS CES 20071/2/6/7/8 DAF MACK EO-M PLUS MAN M 3275-1 MTU DDC TYPE-2 RENAULT RLD / RLD-2 VOLVO VDS-3</p> |
| AGRIFARM MOT SAE 15W-40 | Super High Performance Engine Oil for normally aspirated and turbocharged diesel engines in tractors and other machinery which make high demands on service intervals and engine cleanliness. | <p>ACEA E7 API CI-4 GLOBAL DHD-1 CAT ECF-1-a/ECF-2</p> <p>DEUTZ DQC III</p> | <p>ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2/6/7/8 DAF IVECO 18-1804 CLASSE T2 E7 MACK EO-M PLUS MAN M 3275-1 MTU DDC TYPE-2 NH 330 H RENAULT RLD / RLD-2 STEYR A-201 VOLVO VDS-3</p> |



| AGRIFARM UTTO oils | | Specifications/ approvals | FUCHS recommendations |
|-------------------------|---|--|---|
| AGRIFARM UTTO MP | Super High Performance Multifunctional Oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for agricultural and construction machinery. | <p>SAE J300: 15W-30 SAE J306: 75W-80 API GL-4</p> <p>ZF TE-ML 03E, 05F, 17E, 21F</p> | <p>AGCO Powerfluid 821 XL AGCO Q-186 (Whitefarm) ALLISON C-4 CASE MS 1230, 1210, 1209, 1207, 1206 CLAAS / LANDINI / SAME-Transmission CNH MAT 3525, 3526, 3510, 3509, 3506, 3505 FNHA-2-C-200.00 / -201.00 FORD M2C48-C3 ESN M2C86-B/C FORD M2C134-D JOHN DEERE JDM J20C MASSEY FERGUSON CMS M 1145 (1135/1141/1143) NH 410 B SDFG OT 1891 A ZF TE-ML 06K</p> |
| AGRIFARM UTTO LN | Super High Performance Transmission Hydraulic Fluid developed as a problem-solver for tractors in which conventional UTTO oils led to noisy wet brakes. | <p>SAE J300: 20W-30, SAE J306: 80W-85 API GL-4</p> | <p>AGCO Powerfluid 821 XL AGCO Q-186 (Whitefarm) ALLISON C-4 CASE MS 1317, 1230, 1210, 1209, 1207, 1206 CNH MAT3505, 3506, 3509, 3510, 3525, 3526 FNHA-2-C-200.00 / -201.00 FORD M2C48C3 ESN M2C86-B/C FORD M2C134-D JOHN DEERE JDM J20C MASSEY FERGUSON CMS M 1141/1135 CLAAS / LANDINI / SAME-Transmission / DEUTZ-FAHR FENDT (non Vario)</p> |



| AGRIFARM gear oils | | Specifications/ approvals | FUCHS recommendations |
|----------------------------------|--|------------------------------------|---|
| AGRIFARM GEAR SAE 80W-90 | Super High Performance multigrade gear oil for synchromesh and non-synchromesh gearboxes as well as axles, power distributors, intermediary and auxiliary gearboxes in vehicles and machinery. | API GL-4/GL-5 ZF TE-ML 05A, 21A | MIL-L-2105 D NH 520 A STEYR B-101 |
| AGRIFARM GEAR SAE 85W-140 | Super High Performance multigrade gear oil for synchromesh and non-synchromesh gearboxes as well as axles, power distributors, intermediary and auxiliary gearboxes in vehicles and machinery. | API GL-4/GL-5 ZF TE-ML 05A, 21A | MIL-L-2105 D |
| AGRIFARM GEAR LS SAE 90 | Super High Performance EP gear oil for axles fitted with limited-slip differentials in agricultural and other machinery. | API GL-5 | NH 520 B SDFG OP 1705 LS ZF TE-ML 05C, 12C, 16E |



| AGRIFARM hydraulic oil | | Specifications/ approvals | FUCHS recommendations |
|-------------------------------------|---|--|---|
| AGRIFARM HYDRATEC HVI 46 | Ultra High Performance EP-lubricating and hydraulic oil with high viscosity index. | DIN 51524-3, HVLP HVLP ISO 6743-4: HV | CASE MS 1230 Cincinnati Milacron DENISON HFO Bosch Rexroth Vickers US Steel NH 646 H SDFG OI 1446 HV |
| AGRIFARM chain saw oil | | Specifications/ approvals | FUCHSI recommendations |
| AGRIFARM CHAIN SAW OIL | Super High Performance Chain Saw Oil specially developed for all chain saws with pressurized chain oiling. | | DOLMAR HUSQVARNA SOLO STIHL |
| AGRIFARM milking machine oil | | Specifications/ approvals | FUCHS recommendations |
| AGRIFARM MILKING MACHINE OIL | Ultra High Performance Milking Machine Oil specially developed for use in the vacuum pumps of milking machines. It contains additives which protect against wear and corrosion and foaming. These features increase the functional reliability of such systems. | | ALFA LAVAL WESTFALIA |



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Beside brake fluids and antifreeze other MAINTAIN products are available on request.

| MAINTAIN brake fluids | | Specifications/ approvals | FUCHS recommendations |
|------------------------------------|--|---|---|
| MAINTAIN DOT 5.1 | Ultra High Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, trucks and motorcycles. | FMVSS NR. 116 DOT 5.1 ISO 4925 CLASS 3/4/5.1 SAE J 1703/J 1704 | |
| MAINTAIN DOT 4 | Super High Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, trucks and motorcycles. | FMVSS NR. 116 DOT 3/ DOT 4 ISO 4925 CLASS 3/4 SAE J1703/J1704 | FORD M6C62-A FORD M6C9103-A NH 800 A OPEL 19 42 421 |
| MAINTAIN antifreeze | | Specifications/ approvals | FUCHS recommendations |
| MAINTAIN FRICOFIN LL | Premium Coolant Additive based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. | ASTM D 3306, D 4985 BS 6580 KSM 2142 FORD WSS-M97-B44-D DAF 74002 DEUTZ TR 0199-99-1115 MAN 324 SNF MB-APPROVAL 325.3 MWM TR0199-99-2091 Bez.Reg.Arnsbg. E62.12.22.64-2011-1 | AFNOR NFR 15-601 NATO S-759 CUMMINS (ISBe engines at DAF and Leyland) GM 6277M, IRISBUS, JASO M325, JIS K2234, KOBELCO, KOMATSU (different colour and ready to use) LIEBHERR MD 1-36-130 PSA B 71 5110 RENAULT Type D VW TL 774 D/F (different colour), VOLVO 128 6083/002 (=VOLVO TRUCKS, VOLVO CE, from MY 2005) WAUKESHA, YANMAR |
| MAINTAIN FRICOFIN DP | Ultra High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. | ASTM D3306 SAE J1034 MAN 324 Si-OAT | SCANIA TB 1451 VW TL 774-G |
| MAINTAIN FRICOFIN G 12 PLUS | Ultra High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. | ASTM D 3306-05, ASTM D 4985, AFNOR NF R 15-601 BS 6580:1992 MAN 324 SNF MB-APPROVAL 325.3 MTU MTL 5048 | CITROËN DETROIT DIESEL DDC 93K217 GM 6277M PORSCHE, RENAULT SCANIA TI 02-98 0813 T/B/M sv VW TL 774 D/F (G 12 PLUS) |
| MAINTAIN FRICOFIN | Super High Performance Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. | ASTM D 3306-05, ASTM D 4985 AFNOR NF R 15-601 BS 6580:1982 BUNDESWEHR TL 6805-0038 SAE J1034 DEUTZ TR 0199-99-1115 JENBACHER TA 1000-0201 MAN 324 NF MAN 324 NF PRITARDER MB-APPROVAL 325.0 MTU MTL 5048 MWM TR 0199-99-2091 PN-C 40007:2000 VOITH TURBO 172.00225010 | BMW N 600 69.0 BOMAG LIEBHERR TLV 035/ TLV 23009 A OPEL/GM B 040 0240 VW TL 774-C (G 11) |
| MAINTAIN FRICOFIN S | High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. | ASTM D 3306 BS 6580:1992 | |



Never under-estimate the importance of the right lubricating grease. Greases are integral components of machinery, particularly if they are used in the form of fill-for-life lubricants. The RENOLIT greases provide you with a balanced and complete range for all uses.

To ensure everything runs smoothly.

Greases >>

RENOLIT GREASES



| Greases | | Specifications/ approvals | FUCHS recommendations |
|---|--|--|--------------------------|
| RENOLIT AUTO MPG | Lithium thickened, multipurpose grease for plain and roller bearings, -20 °C to +120 °C. | K 2 K-20 ISO-L-X-BCEA 2 | |
| RENOLIT AUTO EP | Lithium thickened, EP multipurpose grease for plain and roller bearings, -20 °C to +120 °C. | KP 2 K-20 ISO-L-X-BCEB 2 | |
| RENOLIT AUTO BLACK | Lithium thickened, universal grease with black solid lubricants, highly EP-loadable, -20 °C to +120 °C. | KPF 2 K-20 ISO-L-X-BCEB 2 | |
| RENOLIT MP | Standard, multipurpose EP grease. Suitable for low temperatures. -40 °C to +120 °C. | KP 2 K-40 MB-APPROVAL 267.0 | |
| RENOLIT MP PLUS Only available for use in FUCHS system grease guns. | High Performance, multipurpose EP grease for plain and roller bearings with excellent adhesion, optimum corrosion protection and very good ageing stability, -30 °C to +120 °C. | KP 2 K-30 ISO-L-X-CCEB 2 | |
| RENOLIT MP 150 | Lithium thickened special grease with high ageing resistance, good EP and low temperature properties, temperature range from -40 °C up to +120 °C. | KP 2 K-40 ISO-L-X-DCEB 2 MB-APPROVAL 267.1 | |
| RENOLIT MP 735 | High Performance, multipurpose EP wheel bearing grease. NLGI grade 1/2, -40 °C to +120 °C. | KP 2 K-40 ISO-L-X-DCEB 2 MAN 283 Li-P 2 VW TL 735 Stabilus 100 15833 | |
| RENOLIT LZR 2 H | Highly adhesive, Premium Performance long-life EP grease based on lithium soap for all plain and roller bearings as well as central lubrication systems in commercial vehicles and general machinery. Excellent corrosion protection even in the presence of saltwater, -30 °C to +140 °C. | KP 2 N-30 ISO-L-X-CDIB 2 Südzucker Central lubrication system of Baier & Köppel LINCOLN and SKF Lubrication Solutions | |
| RENOLIT LZR 000 | Semi-fluid grease for engine vehicle central lubrication systems. Gear grease for gearboxes in municipal machinery. Observe manufacturer's recommendations, -40 °C to +110 °C. | ISO-L-X-DBIB 00/000 GP 00/000 G-40 MAN 283 Li-P 00/000 MB-APPROVAL 264.0 Schaeffler Central lubrication system of LINCOLN und SKF Lubrication Solutions | |
| RENOLIT FLM 2 Also available for use in FUCHS system grease guns. Also in NLGI grade 0 available. | Universal, High Performance grease with solid lubricant additives with excellent wear protection. For the lubrication of commercial vehicles and machinery. Proven under extreme conditions such as in construction machinery, -30 °C to +140 °C. | KPF 2 N-30 ISO-L-X-CDEB 2 Bucyrus MAN 285 Li-PF 2 | |

RENOLIT GREASES



| Greases | | Specifications/ approvals | FUCHS recommendations |
|--|---|---|--------------------------|
| RENOLIT CX-HT 2 Also available for use in FUCHS system grease guns. Also in NLGI grade 0 available. | Special calcium complex soap-based grease containing MoS ₂ and graphite for the lubrication of highly-stressed plain bearings at high temperatures. Excellent protection against corrosion and wear. Recommended for the greasing of gear wheels, -20 °C to +200 °C, NLGI grade 2, also available in spray can as RENOLIT UNILOAD . | | |
| RENOLIT POLAR BLACK | Fully synthetic special grease based on lithium soap for the lubrication of high loaded plain and roller bearings. All-season grease for construction and mining machines. | | |
| RENOLIT DURAPLEX EP-SERIES Also available for use in FUCHS system grease guns. Also in NLGI grade 1 and 3 available. | Special grease for the long-term lubrication of plain and roller bearings, such as vehicle clutch-release bearings, highly-stressed construction machinery bearings, etc., -30 °C to +160 °C. | KP 2 P-30 ISO-L-X-CEHB 2 | |
| RENOLIT LX-PEP 2 Also in NLGI grade 1/2 and 3 available. | Special grease based on lithium complex soaps for long-life applications. Good corrosion protection, thermally and mechanically stable, specially suitable for wheel bearings of cars and trucks, -30 °C to +150 °C. | KP 2 N-30 ISO-L-X-CDEB 2 MAN 284 Li-H 2 MB-APPROVAL 265.1 Schaeffler SAF Holland John Deere DB-Kenndatenblatt 106 223, Gelenkwellen | |
| RENOLIT HI-TEMP-SERIES | Lithium complex lifetime grease for the lubrication of plain and roller bearings over a wide temperature range, e.g. wheel bearings of trucks and construction machines. Available in base oil viscosities of 100, 220 and 460mm ² /s, NLGI 2. | KPHC 2 N-50 ISO-L-X-EDFB 2 | |



The technical demands on lubricants are always increasing. Better performance and environmental friendliness are crucial.

We invest permanently in innovative products. For example: PLANTOSYN 3268 and PLANTOSYN 3268 ECO – two hydraulic oils which satisfy the needs of technological performance, economical demands and increased environmental friendliness.

The best proof: Both products awarded the Blue Angel environmental seal.

Biodegradable lubricants. >>



| PLANTO lubricants | | Specifications/ approvals | FUCHS recommendations |
|----------------------------|---|---|--|
| PLANTOMOT SAE 5W-40 | Biodegradable SHPD Engine Oil for passenger cars and commercial vehicles as well as stationary engines. | | ACEA E3/ B3 API CG-4 KUBOTA SISU ZETOR |
| PLANTOSYN 3268 | Rapidly biodegradable, universal multigrade hydraulic oil based on fully saturated synthetic esters. Awarded the Blue Angel environmental seal. | ISO VG 32-68 ISO 15 380 HEES FENDT KDM 28/2006 O&K BAUMASCHINEN | BOSCH REXROTH AG CAT BF-1 KRAMER ALLRAD PALFINGER TIMBERJACK VALMET |
| PLANTOSYN 3268 ECO | Rapidly biodegradable, universal ester-based multigrade hydraulic oil. Awarded the Blue Angel environmental seal. | ISO VG 32-68 ISO 15 380 HEES FENDT KDM 28/2006 | |
| PLANTOHYD 40 N | Rapeseed oil-based hydraulic oil. Awarded the Blue Angel environmental seal. | ISO VG 32-68 ISO 15 380 HETG | |
| PLANTOCORIT N | Corrosion protection oil for bare metal surfaces. | | |
| PLANTO HYTRAC PLUS | Biodegradable Super High Performance Multifunctional Oil (UTTO) for tractor gearboxes with or without wet brakes. | SAE 10W-30 SAE 80 | Several makes of tractors |



| PLANTO lubricants | | Specifications/ approvals | FUCHS recommendations |
|---------------------------|---|---|--------------------------------------|
| PLANTOLUBE KS 32 K | Rapeseed oil-based tacky lubricant for chains and other total-loss applications. | | |
| PLANTOGEL 2 N | Rapeseed oil-based, rapidly biodegradable general grease containing a calcium soap for total-loss applications, -20 °C to +70 °C. | ME 2 C-20 ISO-L-X-BAEA 2 Herrenknecht | |
| PLANTOGEL 2 S | Rapidly biodegradable EP grease based on synthetic esters for plain and roller bearings. Water resistant, easily pumpable in central lubrication systems, -40 °C to +120 °C. | KPE 2 K-40 ISO-L-X-DCEB 2 MAN 283 Li-P 2-B Bundeswehr GY 3095 SKF Lubrication Solutions Lincoln RWE | DELIMON |
| PLANTOGEL 2 FS | Rapidly biodegradable EP grease with graphite additives, -30 °C to +120 °C. | KPFE 2 K-30 ISO-L-X-CCEB 2 Dematic RWE | |
| PLANTOGEL 000 S | Rapidly biodegradable semi-fluid EP grease for central lubrication systems of motor vehicles, industrial machinery and machine tools. Gear grease for gearboxes also in municipal machinery. Observe manufacturer's recommendations, -40 °C to +120 °C. | GPE 00/000 K-40 ISO-L-X-DCEB 00/000 MAN 283 Li-P 00/000 SKF Lubrication Solutions VOLVO | |
| PLANTOTAC N | Biodegradable Super High Performance Chain Saw Oil based on rapeseed. For professional use in chain saws. Excellent lubricity and good ageing stability. | | DOLMAR HUSQVARNA SOLO STIHL |



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