

Product Program  
**Automotive  
Lubricants**  
2020

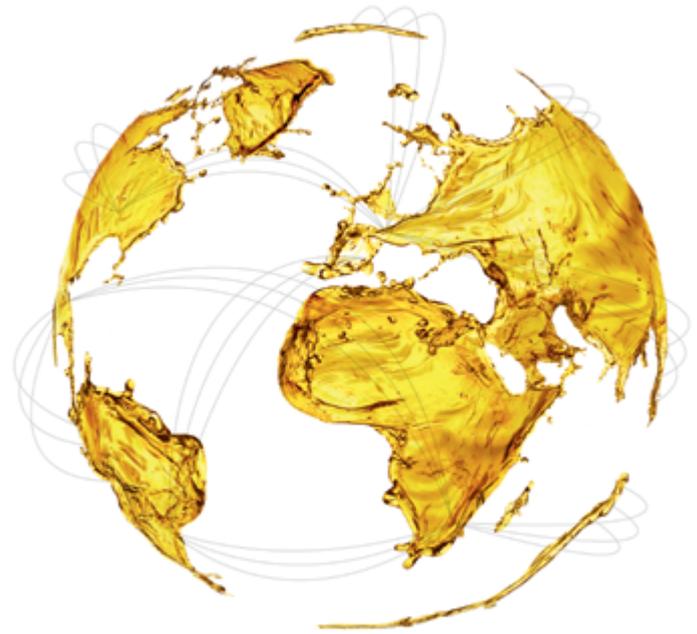


# LUBRICANTS. TECHNOLOGY. PEOPLE.

We focus consistently on high-quality lubricants and related specialties.

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.



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### Facts and figures

**Company:** FUCHS LUBRICANTES S.A.U., a company of the FUCHS Group

**Headquarters:** Mannheim

**Product range:** A full range of more than 2,000 products and 6,000 articles

**Certifications:** ISO 14001, ISO 9001

**References:** One of the leading lubricants OEM for the German automotive industry

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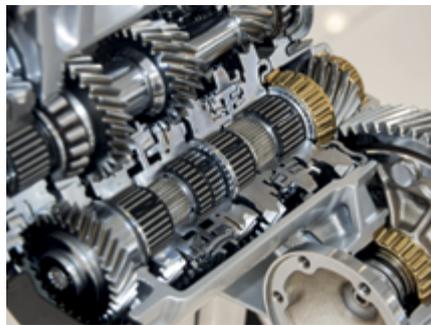
FUCHS has developed, produced and sold lubricants and related specialties for more than 85 years – for virtually all areas of application and sectors. With over 100,000 customers and 62 companies worldwide, the FUCHS Group is the leading independent supplier of lubricants.

A team of more than 900 specialists across Germany works to guarantee the satisfaction of our customers. Whatever their requirements, we have 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.

FUCHS lubricants stand for performance and sustainability, for safety and reliability, for efficiency and cost savings. They represent a promise: technology that pays off.

# The World of Automotive Lubricants

FUCHS consistently relies on the so-called European Engine Lubricant Quality Management System (EELQMS), a European quality management system for engine oils. In addition to our development and production within the framework of the automotive industry quality standard IATF 16949, the EELQMS quality seal stands for highest product quality.



## Engine Oils

FUCHS is one of the leading lubricant manufacturers for the initial filling of passenger cars, trucks and agricultural or construction machines. With a comprehensive range of lubricants for all automotive applications and the XTL®-Technology that is unique worldwide, FUCHS truly sets new standards. Upon starting the engine, engine oils with XTL®-Technology reach the places where their protective film is urgently needed quicker and easier, even under extreme conditions. This ensures reliable protection throughout the entire service life of the oil. For the driver, that means easier start processes, less wear and lower fuel consumption – and oil consumption is also significantly lower than in conventional oils of the same viscosity class. A pioneering engine oil technology.

**TITAN**

## Transmission Fluids

To ensure smooth running throughout their entire service life, modern car transmissions need state-of-the-art, high-performance lubricants that protect the gearing from wear and considerably improve the ease with which gears are changed. Moreover, the extension of the replacement intervals right up to a lifetime filling increases the requirements placed on the quality of the oils. As a long-standing development partner of the world's leading gear manufacturers, we keep our finger on the pulse of the times. Stay on the safe side with the ultra-modern **TITAN** gear oils.

**TITAN**

## Lubricants for Agricultural Machinery

FUCHS has been active in the agricultural lubricant market for more than 70 years, both as an OEM for machine manufacturers and in the field of workshop services. The latest innovative lubricants under the **AGRIFARM** brand secure maximum operational reliability of all agricultural units – from engines and transmissions, right through to hydraulics in all machines and vehicles. **AGRIFARM** lubricants have proved extremely successful even under the very toughest conditions and thereby offer the highest level of reliability for your vehicle fleet.

**AGRIFARM**



### Motorcycle Lubricants

FUCHS offers more products that are specifically developed for the requirements of motorcycles and two-stroke engines than any other supplier on the market. Our new XP technology for motorized two-wheelers offers significantly reduced fuel and oil consumption, meets the highest API specifications and boosts performance with the Pro 4 and Comp 4 products.

**Silkolene**



### Service Products

The FUCHS **MAINTAIN** range of workshop and service products is a comprehensive portfolio of coolant additives, brake fluids and fuel additives. These offer your vehicle optimum protection at all times – particularly in winter.

Our **MAINTAIN** products are individually matched to virtually every vehicle type and offer the best possible protection combined with the latest technology.

**MAINTAIN**



### Environmentally Friendly Lubricants

The dream of environmentally friendly lubricants is nothing new. Indeed, FUCHS was one of the first companies to enter the market with rapidly biodegradable lubricants back in the 70s. Since then, FUCHS has invested heavily in researching and further developing these lubricants.

The reward for all this hard work: a priceless and unparalleled wealth of expertise and practical experience. Because one thing is certain: a good product alone is not enough. The user also needs competent advice when choosing the right product, switching over to rapidly biodegradable lubricants and for application. It really pays off to have an expert partner by your side.

**PLANTO**

# ENGINE OILS

TITAN engine oils are the result of the latest research and development by the world's largest independent lubricant specialist. Developed together with leading automobile manufacturers, tailored to satisfy the demands of today's high-tech engines: offering outstanding high-performance, fuel-economy and wear protection.

TITAN engine oils: Premium quality from the German automobile industry's leading lubricant OEM.

Made in Germany.



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## Engine Oils

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**XTL**<sup>®</sup>  
TECHNOLOGY

## Ground-breaking XTL<sup>®</sup>-Technology.

While starting, engine oils with XTL<sup>®</sup>-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.



# Engine Oils

**TITAN**


Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Passenger Cars</b>				
<b>TITAN GT1 PRO V SAE 0W-20</b>  	Premium Performance Engine Oil with new XTL®-Technology in ground-breaking viscosity class. Specially designed for modern VOLVO vehicles, for extreme fuel-economy characteristics and reduced CO <sub>2</sub> emissions. Excellent cold starting behaviour, very fast oil circulation and outstanding performance reserves.	–	VOLVO VCC RBS0-2AE	ACEA A1/B1
<b>TITAN GT1 LONGLIFE IV SAE 0W-20</b>	Premium Performance Engine Oil in ground-breaking viscosity class. Specially designed for modern VW vehicles, for extreme fuel-economy characteristics and reduced CO <sub>2</sub> emissions. Excellent cold starting behaviour, very fast oil circulation and outstanding performance reserves.	ACEA C5	VW 508 00/509 00	PORSCHE C20
<b>TITAN GT1 FLEX 5 SAE 0W-20</b>  	Premium Performance Engine Oil with new XTL®-Technology in path-breaking viscosity class. Specially designed for highly stressed downsized engines with maximum power output, for extreme fuel-economy characteristics and reduced CO <sub>2</sub> emissions. Excellent cold starting behaviour, very fast oil circulation and outstanding performance reserves.	ACEA C5 API SN PLUS RC ILSAC GF-5	BMW LONGLIFE-17 FE+ MB-APPROVAL 229.71 OV 040 1547	ACEA A1/B1 JAGUAR LAND ROVER STJL- R.51 CHRYSLER MS-12145 FIAT 9.55535-GSX FORD WSS- M2C947-A VOLVO VCC RBS0- 2AE
<b>TITAN Supersyn D1 SAE 0W-20</b>	Ultra High Performance, extreme fuel economy engine oil, specially developed for GM gasoline engines requiring dexos1™ Gen 2 fluid. Optimum cold starting, lower oil consumption and minimised exhaust emissions.	API SN PLUS RC ILSAC GF-5	dexos1™ Gen 2 (D10172GJ075)	CHRYSLER MS 6395 <b>CHRYSLER MS-12145</b> FIAT 9.55535-CR1 FIAT 9.55535-GSX FORD WSS- M2C947-A

## Engine Oils

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Passenger Cars</b>				
<b>TITAN GT1 PRO 2312 SAE 0W-30</b> <b>NEW</b>	Premium Performance, fuel-economy engine oil for modern passenger cars and light commercial vehicles. Specially developed for latest PSA gasoline and diesel vehicles with exhaust after treatment and turbocharger. Excellent cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C2	PSA B71 2312	<b>CHRYSLER MS-13340</b> <b>CHRYSLER MS.90047</b> FIAT 9.55535-DS1/GS1 IVECO 18-1811 CLASSE SC1 LV
<b>TITAN GT1 LL-12 FE SAE 0W-30</b> <b>XTL<sup>®</sup></b> <small>TECHNOLOGY</small>	Premium Performance Engine Oil with new XTL <sup>®</sup> -Technology. Specially developed for latest BMW gasoline and diesel vehicles with exhaust after treatment. Excellent cold starting, lower oil consumption and outstanding performance reserves.	ACEA C2	BMW LONGLIFE-12 FE	JAGUAR LAND ROVER STJLR.03.5007 JAGUAR LAND ROVER STJLR.03.5007
<b>TITAN Supersyn LONGLIFE PLUS SAE 0W-30</b>	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 506 01	VW 503 00/506 00
<b>TITAN Supersyn LONGLIFE SAE 0W-30</b>	Ultra High Performance, extreme fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Excellent cold starting and lower oil consumption.	ACEA A3/B4 API SL	MB-APPROVAL 229.5 VW 502 00/505 00	–
<b>TITAN Supersyn FE SAE 0W-30</b>	Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Excellent cold starting properties and low oil consumption.	ACEA A5/B5	VOLVO VCC 95200377	RENAULT RN0700
<b>TITAN Supersyn F Eco-FE SAE 0W-30</b>	Ultra High Performance, extreme fuel-economy engine oil especially developed for modern Ford Diesel engines. Excellent cold starting and lower oil consumption.	ACEA C2 FORD WSS- M2C950-A	JAGUAR LAND ROVER STJLR.03.5007	–
<b>TITAN Supersyn LONGLIFE SAE 0W-40</b>	Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Excellent cold starting and lower oil consumption.	ACEA A3/B4 API SN	MB-APPROVAL 229.5 PORSCHE A40 VW 502 00/505 00	FORD WSS-M2C937-A
<b>TITAN Supersyn F Eco-B SAE 5W-20</b>	Ultra High Performance, extreme fuel-economy engine oil especially developed for Ford EcoBoost gasoline engines. Optimum cold starting and lower oil consumption.	ACEA C5 API SN FORD WSS- M2C948-B	JAGUAR LAND ROVER STJLR.03.5004	ACEA A1/B1 CHRYSLER MS 6395 <b>FIAT 9.55535-CR1</b> FORD WSS-M2C925-A FORD WSS-M2C925-B

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Passenger Cars</b>				
<b>TITAN GT1 PRO C-1 SAE 5W-30</b>	Premium Performance, extreme fuel-economy 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. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C1	JAGUAR LAND ROVER STJLR.03.5005	JASO DL-1 FORD WSS-M2C934-B
<b>TITAN GT1 PRO C-3 SAE 5W-30</b>  	Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology for optimum 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.	ACEA C3 API SN	BMW LONGLIFE-04 MB-APPROVAL 229.51 PORSCHE C30 VW 504 00/507 00	<b>CHRYSLER MS-11106</b> FIAT 9.55535-S3
<b>TITAN GT1 PRO 2290 SAE 5W-30</b>	Premium Performance, extreme fuel-economy 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. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C2	PSA B71 2290	–
<b>TITAN GT1 PRO 229.6 SAE 5W-30</b>  	Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology. Specially designed for Mercedes-Gasoline-Vehicles. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA A5/B5	MB-APPROVAL 229.6	–
<b>TITAN GT1 PRO RN17 SAE 5W-30</b>  <b>NEW</b>	Premium Performance, extreme fuel-economy engine oil for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially developed for RENAULT vehicles with exhaust after treatment and turbocharger. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C3	RENAULT RN17	–
<b>TITAN GT1 FLEX 23 SAE 5W-30</b>	Premium Performance, extreme fuel-economy engine oil with optimum cold start ability and outstanding performance reserves. For modern passenger cars and light commercial vehicles with or without extended service intervals.	ACEA C2/C3 API SN	BMW LONGLIFE-04 dexos2™ (D235ABAD075) MB-APPROVAL 229.31 MB-APPROVAL 229.51 MB-APPROVAL 229.52 VW 505 00/505 01	<b>CHRYSLER MS-11106</b> FIAT 9.55535-S1 / -S3 GM-LL-A-025 GM-LL-B-025 IVECO 18-1811 CLASSE SC1
<b>TITAN GT1 FLEX 34 SAE 5W-30</b>  <b>NEW</b>	Premium Performance, extreme fuel-economy engine oil for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially for engines with exhaust after treatment and turbocharger. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C3/C4	MB-APPROVAL 226.51 MB-APPROVAL 229.51 RENAULT RN0720	FIAT 9.55535-S4
<b>TITAN Supersyn D1 SAE 5W-30</b>	Ultra High Performance, extreme fuel economy engine oil, specially developed for gasoline engines requiring dexos1™ Gen 2 fluid. Optimum cold starting, lower oil consumption and minimised exhaust emissions.	API SN PLUS RC ILSAC GF-5	dexos1™ Gen 2 (D135ACAJ075)	FORD WSS-M2C929-A FORD WSS-M2C946-A FIAT 9.55535-CR1 CHRYSLER MS 6395 GM 6094M GM 4718M

## Engine Oils

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Passenger Cars</b>				
<b>TITAN Supersyn F Eco-DT SAE 5W-30</b>	Ultra High Performance, extreme fuel-economy engine oil especially suitable for Ford DuraTorq-Diesel engines. Optimum cold starting and lower oil consumption.	ACEA A5/B5 API SL FORD WSS-M2C913-C FORD WSS-M2C913-D	JAGUAR LAND ROVER STJLR.03.5003	ACEA A1/B1 API CF CHRYSLER MS 6395 FORD WSS-M2C913-A FORD WSS-M2C913-B IVECO 18-1811 CLASSE S1/S2 JAGUAR M2C913-B RENAULT RN0700
<b>TITAN Supersyn SAE 5W-30</b>	Ultra High Performance, extreme fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Optimum cold starting and lower oil consumption.	ACEA A3/B4 API SL	MB-APPROVAL 229.3 VW 502 00/505 00	API CF BMW LONGLIFE-98 GM-LL-A-025 GM-LL-B-025 RENAULT RN0700/ RN0710
<b>TITAN GT1 SAE 5W-40</b> 	Premium Performance, fuel-economy engine oil with new XTL®-Technology for optimum 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 FORD WSS-M2C917-A	dexos2™ (D20311HE075) MB-APPROVAL 226.5 MB-APPROVAL 229.31 PORSCHE A40 RENAULT RN0700/ RN0710 VW 505 00/505 01	API CF FIAT 9.55535-GH2 FIAT 9.55535-S2 FIAT 9.55535-T2
<b>TITAN Supersyn LONGLIFE SAE 5W-40</b>	Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Optimum cold starting and lower oil consumption.	ACEA A3/B4 API SN/SM	MB-APPROVAL 226.5 MB-APPROVAL 229.5 PORSCHE A40 PSA B71 2296 RENAULT RN0700/ RN0710 VW 502 00/505 00	API CF GM-LL-B-025
<b>TITAN Supersyn SAE 5W-40</b>	Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Optimum cold starting and lower oil consumption.	ACEA A3/B4 API SN/SM	MB-APPROVAL 229.3 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00/505 00	API CF BMW LONGLIFE-98 <b>CHRYSLER MS-12991</b> FIAT 9.55535-H2/M2/ N2/Z2 GM-LL-A-025 GM-LL-B-025
<b>TITAN Supersyn SAE 5W-50</b>	Ultra High Performance, fuel-economy engine oil for passenger cars. Optimum cold starting behaviour and low oil consumption. Highly durable lubricating film and high oil pressure.	–	–	ACEA A3/B4 API SL/CF
<b>TITAN SYN MC SAE 10W-40</b>	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 SN	MB-APPROVAL 229.3 PSA B71 2300 RENAULT RN0700/ RN0710 VW 501 01/505 00	API CF FIAT 9.55535-D2/G2 MB 229.1
<b>TITAN Supersyn SAE 10W-60</b>	Ultra High Performance, fuel-economy 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
<b>TITAN FORMULA SAE 15W-40</b>	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 API SL	MB-APPROVAL 229.1	API CG-4 FIAT 9.55535-D2/G2 VW 501 01/505 00



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Passenger Cars and Commercial Vehicles</b>				
<b>TITAN UNIMAX ULTRA MC SAE 10W-40</b>	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 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 RLD/RLD-2 VOITH-RETARDER „A“ VOLVO VDS-3	ALLISON C-4 CAT ECF-2 CUMMINS CES 20071/2/6 MB 229.1 VW 500 00/501 01/505 00
<b>TITAN UNIMAX PLUS MC SAE 10W-40</b>	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	DEUTZ DQC II-10 MAN M 3275-1 MB-APPROVAL 228.3 MB-APPROVAL 235.27 MTU DDC TYPE 2 RENAULT RD/RD-2 VOITH-RETARDER „A“ VOLVO VDS-2	ALLISON C-4 CUMMINS CES 20071/2/6/7 MACK EO-M PLUS MB 229.1
<b>TITAN UNIVERSAL HD SAE 15W-40</b>	High Performance Engine Oil for mixed fleets operated under normal conditions. Good performance in normally aspirated and turbocharged diesel engines.	ACEA A3/B3 API SL	DEUTZ DQC I-02 MB-APPROVAL 229.1 MTU DDC TYPE 2	ACEA E2 API CG-4/CF MIL-L-2104 E ALLISON C-4 CASE MS 1120 MACK EO-L MAN 271 NH 330G STEYR A-202 VOLVO VDS VW 501 01/505 00

## Engine Oils



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Commercial Vehicles</b>				
<b>TITAN CARGO MAXX SAE 5W-30</b>  	Premium MAXX Performance Engine Oil with new XTL®-Technology. Specially developed for vehicles with modern exhaust after treatment and turbocharger. Optimum cold starting properties and ageing stability for extreme fuel-economy over the whole drain-interval.	ACEA E9/E7/E6/E4 API CJ-4 CAT ECF-3 JASO DH-2 SCANIA LA	DEUTZ DQC IV-10 LA (inkl. TTCD) DETROIT DIESEL 93K218 MACK EO-O PREMIUM PLUS MAN M 3271-1 MAN M 3477 MAN M 3575 MAN M 3677 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LDF-4 VOLVO VDS-4	CUMMINS CES 20081 IVECO 18-1804 CLASSE TLS E6
<b>TITAN CARGO PRO 228.61 SAE 5W-30</b>  <b>NEW</b>	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. Offers good cold starting and lower oil consumption.	API FA-4	MB-APPROVAL 228.61	CUMMINS CES 20087 DETROIT DIESEL 93K223
<b>TITAN CARGO PRO 3677 SAE 5W-30</b>	Ultra High Performance, extreme fuel-economy engine oil. Specially developed for MAN vehicles with modern exhaust after treatment systems. Suitable for Euro VI engines. Offers good cold starting and lower oil consumption.	–	MAN M 3677	–



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Commercial Vehicles</b>				
<b>TITAN CARGO SL SAE 5W-30</b>	Ultra High Performance, extreme fuel-economy engine oil for a variety of commercial vehicle diesel engines, with optimum cold starting and lower oil consumption. Specially developed for extended service intervals.	ACEA E7/E4 FORD WSS-M2C212-A1	DEUTZ DQC IV-10 MACK EO-N MAN M 3277 MB-APPROVAL 228.5 MB-APPROVAL 235.28 MTU DDC TYPE 3 RENAULT RXD/RLD-2 SCANIA LDF-3 VOITH-RETARDER „B” VOLVO VDS-3	CUMMINS CES 20077 IVECO 18-1804 CLASSE TFE SCANIA LDF-2
<b>TITAN CARGO LA SAE 5W-30</b>	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.	ACEA E9/E7/E6 API CI-4 JASO DH-2	DEUTZ DQC III-10 LA MACK EO-N MAN M 3271-1 MAN M 3477 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-2/RXD/RGD VOLVO VDS-3	CUMMINS CES 20076/7/8
<b>TITAN CARGO LD4 SAE 5W-30</b>	Ultra High Performance, fuel-economy engine oil for use in Scania Euro VI vehicles. Specially developed for extended service intervals.	–	SCANIA LDF-4	–
<b>TITAN CARGO SAE 5W-40</b>	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 API CK-4/CJ-4/SN CAT ECF-3	CUMMINS CES 20086 DEUTZ DQC III-10 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
<b>TITAN CARGO MAXX SAE 10W-30</b> <b>NEW</b>	Premium MAXX Performance Engine Oil specially developed for vehicles with modern exhaust after treatment and turbocharger. Good cold starting properties and excellent ageing stability for fuel-economy over the whole drain-interval.	ACEA E9/E7/E6 API CK-4/SN CAT ECF-3	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 VDS-4.5	CUMMINS CES 20086 DETROIT DIESEL 93K218 DETROIT DIESEL 93K222 JASO DH-2 RENAULT RLD-4
<b>TITAN CARGO SAE 10W-30</b>	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 API CK-4/CJ-4 CAT ECF-3 JASO DH-2	CUMMINS CES 20086 DEUTZ DQC III-18 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
<b>TITAN CARGO MAXX SAE 10W-40</b> <b>XTL</b> <small>TECHNOLOGY</small>	Premium MAXX Performance Engine Oil with new XTL®-Technology. Specially developed for vehicles with modern exhaust after treatment and turbocharger. Good cold starting properties and ageing stability for fuel-economy over the whole drain-interval.	ACEA E9/E7/E6/E4 API CJ-4 JASO DH-2 CAT ECF-3	DEUTZ DQC IV-10 LA (incl. TTFD) MACK EO-O PREMIUM PLUS MAN M 3271-1 MAN M 3477 MAN M 3575 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LA VOLVO VDS-4	CUMMINS CES 20081 DETROIT DIESEL 93K218 IVECO 18-1804 CLASSE TLS E9 IVECO 18-1809 CLASSE NG2 VOITH-RETARDER „B”

## Engine Oils

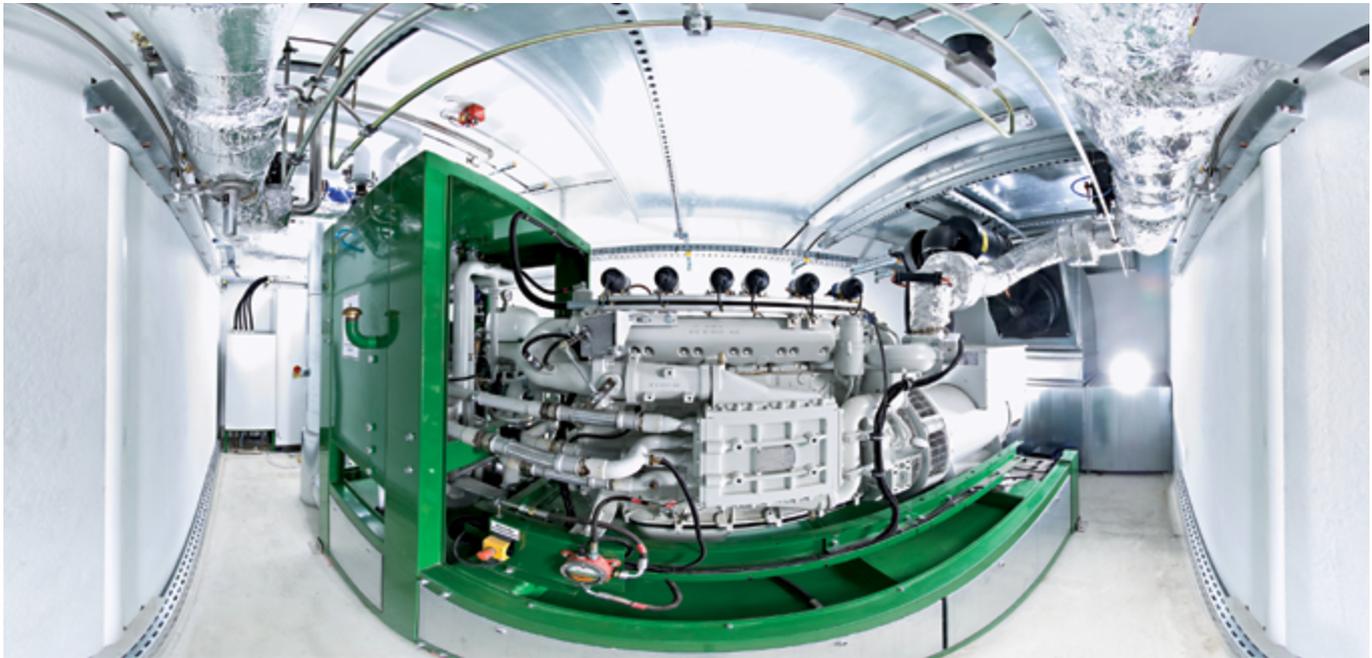
Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Engine Oils for Commercial Vehicles</b>				
<b>TITAN CARGO MC SAE 10W-40</b>	Ultra High Performance, fuel-economy engine oil based on MC-synthesis for a variety of commercial vehicle diesel engines. Specially developed for extended service intervals. Good cold starting and lower oil consumption.	ACEA E7/E4 API CI-4 GLOBAL DHD-1	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 RXD/RLD-2 SCANIA LDF-2 VOLVO VDS-3	IVECO 18-1804 SDFG OM-1901A
<b>TITAN CARGO LA SAE 10W-40</b>	Ultra High Performance, 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.	ACEA E9/E7/E6 API CI-4 JASO DH-2	DEUTZ DQC IV-10 LA (inkl. TTCD) MACK EO-N MAN M 3271-1 MAN M 3477 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-2/RXD/RGD VOLVO VDS-3	CUMMINS CES 20076/7
<b>TITAN CARGO LD3 SAE 10W-40</b>	Ultra High Performance, fuel-economy engine oil for use in Scania Euro VI vehicles. Specially developed for extended service intervals.	ACEA E7/E4	MACK EO-N MAN M 3277 MB-APPROVAL 228.5 RENAULT RLD-2 SCANIA LDF-3 VOLVO VDS-3	API CF
<b>TITAN CARGO SAE 15W-40</b>	Ultra High Performance, fuel-economy engine oil for a variety of commercial vehicle diesel engines. Specially developed for vehicles with extended service intervals, exhaust after treatment and turbocharger.	ACEA E9 API CK-4/CJ-4/SN CAT ECF-3 JASO DH-2	CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC III-10 LA FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	MAN M 3575 RENAULT RLD-4
<b>TITAN TRUCK PLUS SAE 15W-40</b>	Super High Performance Engine Oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption.	ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2	CUMMINS CES 20076/7/8 DETROIT DIESEL 93K215 DEUTZ DQC III-10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE 2 RENAULT RLD/RLD-2 VOLVO VDS-3	ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2 IVECO 18-1804 CLASSE T2 E7 NH 330H
<b>TITAN TRUCK PLUS SAE 20W-50</b>	Super High Performance Engine Oil for a variety of diesel and gasoline engines. Specially for highly-loaded commercial vehicle diesel engines. Lower oil consumption.	ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ECF-2	MB-APPROVAL 228.3	MAN M 3275-1
<b>Engine Oil for Commercial Vehicles with Gas Engines</b>				
<b>TITAN CARGO PRO GAS SAE 10W-40</b>	Premium Performance, extreme fuel-economy engine oil for highly-supercharged commercial vehicle gas engines as well as Diesel engines with exhaust gas after treatment systems. Specially developed for gas powered engines with and without turbocharger. Optimum cold starting, lower oil consumption and minimized exhaust emissions. For MAN gas engines extended drain intervals are possible depending on engine type.	ACEA E9/E7/E6	DEUTZ DQC IV-10 LA MACK EO-N MAN M 3271-3 MAN M 3477 MB-APPROVAL 228.51 RENAULT RLD-2 VOLVO VDS-3	–

**TITAN**

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Monograde Engine Oils for Construction Machinery</b>				
<b>TITAN UNIVERSAL HD SAE 10W</b>	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.	–	MAN 270 ZF TE-ML 03B (ZF002013)	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MB 228.0 ZF TE-ML 02C
<b>TITAN UNIVERSAL HD SAE 20W-20</b>	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.	–	MB-APPROVAL 235.27 VOITH-RETARDER „A“	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 MB 228.0 ZF TE-ML 02C
<b>TITAN UNIVERSAL HD SAE 30</b>	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.	–	DEUTZ DQC I-02 MTU DDC TYPE 2 ZF TE-ML 04B (ZF001189)	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 MB 228.2 ZF TE-ML 02C
<b>TITAN UNIVERSAL HD SAE 40</b>	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.	–	DEUTZ DQC I-02 MB-APPROVAL 228.2 MB-APPROVAL 235.12 MTU DDC TYPE 2 ZF TE-ML 04B (ZF001190)	ACEA E2 API CF-2/CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 ZF TE-ML 02C

## Engine Oils

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Monograde Engine Oils for Construction Machinery</b>				
<b>TITAN UNIVERSAL HD SAE 50</b>	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.	–	DEUTZ DQC I-02 MAN M 3275-2	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MB 228.0 ZF TE-ML 02C
<b>TITAN UNIVERSAL HD SAE 30 MTU</b>	High Performance dedicated break in engine oil for MTU diesel and gas engines, developed to improve operating characteristics with enhanced corrosion protection.	–	MTU DDC TYPE 2	–



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gas Engine Oils for Stationary Gas Engines</b>				
<b>TITAN GANYMET ULTRA</b>	Premium Performance Engine Oil, zinc-free, for stationary gas engines.	–	2G TA-003 agenitor series 2,3 AGROGEN CATERPILLAR TR 0199-99-12105 GE JENBACHER TA 1000-1109 - A, CAT: series 2, 3, 4 (A, B), 6 (C, E) - B, CAT: series 2, 3, 4 (A, B), 6 (C, E) MAN M 3271-4 MTU Onsite Energy A001072/01D MWM TR 0199-99-2105 SEVA TRS-07 SPANNER RE? TEDOM 61-0-0281.1/L, B, S	–
<b>TITAN GANYMET PLUS</b>	Super High Performance Engine Oil, zinc-free, for stationary gas engines.	–	CATERPILLAR TR 0199-99-12105 DREYER & BOSSE GE JENBACHER TA 1000-1109 - B: series 2, 3 MTU Onsite Energy A001072/01D MWM TR 0199-99-2105 SEVA TRS-07	–
<b>TITAN GANYMET PLUS LA</b>	Super High Performance Engine Oil with low sulphated ash content, zinc-free, for stationary gas engines.	–	CATERPILLAR TR 0199-99-12105 DEUTZ TR 0199-99-01213 MWM TR 0199-99-2105 SEVA TRS-07 TEDOM 61-0-0281.1/G, P	CATERPILLAR CUMMINS WAUKESHA
<b>TITAN GANYMET PRO MA</b>	High Performance Engine Oil for stationary gas engines.	–	<b>CATERPILLAR TR 0199-99-12105</b> GE JENBACHER TA 1000-1109 - B, C: series 2, 3, 4 (A, B), 6 (C, E) MAN M 3271-4 MAN M 3271-5 <b>MWM TR 0199-99-2105</b>	CATERPILLAR (special gas)

## Engine Oils

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gas Engine Oils for Stationary Gas Engines</b>				
<b>TITAN GANYMET PRO LA</b>	High Performance Engine Oil with low sulphated ash content for stationary gas engines.	–	CATERPILLAR TR 0199-99-12105 GE JENBACHER TA 1000-1109 - A, B: series 2, 3, 4 (A, B), 6 (C, E) MWM TR 0199-99-2105 <b>WÄRTSILÄ</b>	CATERPILLAR CUMMINS WAUKESHA
<b>TITAN GANYMET</b>	High Performance Engine Oil for stationary gas engines.	–	ASJA AMBIENTE ITALIA GE JENBACHER TA 1000-1109 - C: series 2, 3 MAN M 3271-4 MTU Onsite Energy A001072/01D SEVA TRS-07	–
<b>TITAN GANYMET LA</b>	High Performance Engine Oil with low sulphated ash content for stationary gas engines.	–	CATERPILLAR TR 0199-99-12105 DEUTZ TR 0199-99-01213 GE JENBACHER TA 1000-1109 - A, CAT: series 2, 3, 4 (A, B), 6 (C, E) MAN M 3271-2 MTU Onsite Energy A001072/01D MWM TR 0199-99-2105 SEVA TRS-07	CATERPILLAR CUMMINS WAUKESHA

**TITAN**

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>2-Stroke Engine Oils</b>				
<b>TITAN 2T 100S</b>	Ultra High Performance two-stroke engine oil for Autolube and Premix systems formulated with fully synthetic base oils. Product dyeing: blue.	API TC JASO FD ISO L-EGD	–	TISI
<b>TITAN 2T S</b>	Super High Performance two-stroke engine oil. Mixes rapidly. Suitable for Autolube as well as Premix systems. Product dyeing: blue.	API TC JASO FC ISO L-EGC	–	–
<b>TITAN 2T M</b>	High Performance two-stroke engine oil. Mixes rapidly. Suitable for Autolube as well as Premix systems. Product dyeing: blue.	API TC	–	–

# TRANSMISSION FLUIDS

Modern passenger car transmissions require modern high-performance lubricants for smooth operation over the entire service life, which protect the transmission from wear and tear and significantly improve the shifting comfort. The extension of the change intervals up to a lifetime filling also increases the demands on the quality of the oils.

As a long-standing development partner of the world's leading transmission manufacturers, we offer you the latest approvals and specifications.

Place your trust in quality and reliability. Place your trust in FUCHS



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## Transmission Fluids

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## Transmission Fluids

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gear Oils for Passenger Cars</b>				
<b>TITAN SINTOFLUID FE SAE 75W</b>	Premium Performance Manual Transmission Fluid 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 G 055 512 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 525 27 (G 052 527 A2) VW TL 726 (G 052 726 A2/ G 055 726 A2/ G 060 726 A2/ G 070 726 A2)
<b>TITAN SINTOFLUID SAE 75W-80</b>	Premium Performance Manual Transmission Fluid for passenger cars. Offering good gearbox efficiency. Suitable as fill for life fluid according to manufacturer.	API GL-5	–	MIL-L-2105 D BMW 83 22 0 309 031 BMW 83 22 0 403 247 BMW 83 22 2 339 219 BMW 83 22 7 533 818 BMW 2300 1434 404 BMW 2300 7533 513 BMW 2300 7533 818 FORD WSS-M2C200-C3 OPEL 19 40 182 OPEL 19 40 757 OPEL 19 40 768 OPEL 19 40 776 VOLVO 97308 VW 501 50 (G 005 000 05/G 005 000/ G 005 000 20/G 052 911 A1/A2)
<b>TITAN SINTOPOID FE SAE 75W-85</b>  	Premium Performance fuel-economy passenger car axle fluid 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-5	MB-APPROVAL 235.7 MB-APPROVAL 235.74 MB-APPROVAL 239.72 ZF TE-ML 18 (ZF002195)	MB 239.71 VW TL 521 45-X (G 052 145 A1) VW TL 521 90 (G 052 190 A2/ G 055 190 A2)
<b>TITAN SINTOPOID SAE 75W-90</b>	Premium Performance Axle Gear Oil for passenger cars, also for high-offset hypoid drives offering good gearbox efficiency. Suitable as fill for life fluid according to manufacturer.	API GL-5	–	MIL-L-2105 D VW TL 521 45-Y (G 052 145 A2)
<b>TITAN SINTOPOID LS SAE 75W-90</b>	Premium Performance, fully-synthetic multifunctional gear oil, formulated with fully-synthetic base oils. 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	–	FORD WSS-M2C200-C/C2 VW G50/G51
<b>TITAN SINTOPOID LS SAE 75W-140</b>	Premium Performance 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 WSL-M2C192-A GM 12346140 JOHN DEERE JDM J11G SCANIA STO 1:0



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gear Oils for Passenger Cars and Commercial Vehicles</b>				
<b>TITAN SUPERGEAR MC SAE 80W-90</b>	Super High Performance Gear Oil based on MC-Synthesis for extended oil change intervals.	API GL-4/GL-5 SCANIA STO 1:0	MAN 341 TYPE Z2 MAN 342 TYPE M2 MB-APPROVAL 235.0 ZF TE-ML 02B, 05A, 12L, 12M, 16B, 17H, 19B, 21A (ZF000722)	CASE MS 1316 FORD WSP-M2C197-A JOHN DEERE JDM J11E MAN M 3343 TYPE M MAN 341 TYPE E2 NH 520A SDFG OP 1705 STEYR B-101 VOLVO 97310 ZF TE-ML 07, 08
<b>TITAN SUPERGEAR MC SAE 80W-140</b>	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 J11E OPEL 19 42 386 RENAULT VI VOLVO 97310 ZF TE-ML 08
<b>TITAN SUPERGEAR SAE 80W-90</b>	High Performance Gear Oil for extended oil change intervals.	API GL-4/GL-5	MAN 342 TYPE M2 ZF TE-ML 05A, 12E, 17B, 19B, 21A (ZF000647)	MIL-L-2105 D VOLVO 97310 NH 520A STEYR B-101
<b>TITAN SUPERGEAR SAE 85W-140</b>	High Performance Gear Oil for extended oil change intervals.	API GL-4/GL-5	ZF TE-ML 05A, 12E, 16D, 21A (ZF000650)	MIL-L-2105 D VOLVO 97310
<b>TITAN GEAR LS SAE 90</b>	High Performance LS (Limited Slip) hypoid gear oil for axles with or without limited slip differentials.	API GL-5 SAE J306: 85W-90	ZF TE-ML 05C, 12C, 16E, 21C (ZF000651)	MIL-L-2105 D FORD M2C104-A JOHN DEERE JDM J11F NH 520B VOLVO 97310
<b>TITAN GEAR MP SAE 80</b>	High Performance Gear Oil for synchronized and non-synchronized manual gearboxes as well as auxiliary drives, axles and differentials in commercial vehicles and passenger cars.	API GL-4	MB-APPROVAL 235.1 ZF TE-ML 17A (ZF000654)	BMW 81 22 9 407 052 BMW 81 22 9 407 053 FORD M2C9008-A VW TL 726 ZF TE-ML 08
<b>TITAN GEAR MP SAE 90</b>	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, Z1 MB 235.1 ZF TE-ML 02A, 16A, 17A, 19A
<b>TITAN GEAR HYP SAE 90</b>	High Performance Gear Oil for highly-stressed differentials in commercial vehicles and passenger cars.	API GL-5 SAE J306: 85W-90	MB-APPROVAL 235.0 ZF TE-ML 16C, 17B, 19B, 21A (ZF000656)	FORD SR-M2C9102-A JOHN DEERE JDM J11E MAN 342 TYPE M1 OPEL 19 42 387 VOLVO 97310 VW TL 727 ZF TE-ML 07, 08

## Transmission Fluids

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gear Oils for Commercial Vehicles</b>				
<b>TITAN CYTRAC MAT SAE 75W-80</b>	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially developed for manual and automatic ZF-gear boxes, formulated with selected base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals and compatible with Carbon-Synchronizers.	API GL-4	MAN 341 TYPE Z4 VOLVO 97307 ZF TE-ML 01L, 02L, 16K (ZF003373)	<b>MAN 341 TYPE E3 MAN 341 TYPE Z3 VOLVO 97305 ZF TE-ML 02D, 08</b>
<b>TITAN CYTRAC ULTRA SYNTH SAE 75W-80</b>	Premium Performance Gear Oil for gear boxes in commercial vehicles, especially developed for ZF heavy duty transmissions with and without Intarder. Reduces fuel consumption by improving gearbox efficiency. Suitable for longest oil change intervals.	API GL-4 VOLVO 97307	MAN 341 TYPE Z5 ZF TE-ML 01E, 02E, 16P (ZF001457)	–
<b>TITAN CYTRAC FE SYNTH SAE 75W-85</b>	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially for the latest version of Mercedes-Benz CO <sub>2</sub> transmissions, formulated with fully-synthetic base oils. Most fuel efficient by improving gearbox efficiency. Suitable for the longest oil change intervals.	API GL-4	MB-APPROVAL 235.16	–
<b>TITAN CYTRAC PRO 235.31 SAE 75W-85 <i>NEW</i></b>	Premium Performance Gear Oil for highly-stressed hypoid axles in Mercedes-Benz commercial vehicles formulated with selected base oils. Developed for the longest oil change intervals and optimized gearbox efficiency.	API GL-5	MB-APPROVAL 235.31	DETROIT DIESEL 93K219.03
<b>TITAN CYTRAC MB SYNTH SAE 75W-90</b>	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially developed for Mercedes-Benz Actros vehicles, formulated with fully-synthetic base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals.	API GL-4	MAN 341 TYPE MB MB-APPROVAL 235.11	ZF TE-ML 08
<b>TITAN CYTRAC PRO GA2 SAE 75W-90 <i>NEW</i></b>	Premium Performance Transmission Oil for manual transmissions in commercial vehicles, especially for SCANIA and MAN. Developed for the longest oil change intervals.	API GL-5 SCANIA STO 2:0 G	MAN M 341 TYPE GA2	–
<b>TITAN CYTRAC SL SAE 75W-90</b>	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	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MB 235.8 VOLVO 97312 ZF TE-ML 05B, 07, 08, 12B, 16F, 17B
<b>TITAN CYTRAC TD SAE 75W-90</b>	Premium Performance Gear Oil for highly-stressed manual transmissions and hypoid axles in commercial vehicles formulated with fully-synthetic base oils. Developed for the longest oil change intervals.	API GL-4/GL-5 API MT-1 SAE J2360 SCANIA STO 1:0 SCANIA STO 2:0A FS	DETROIT DIESEL 93K219.01 MAN 341 TYPE Z2 MAN 342 TYPE M3 MAN 342 TYPE S1 MB-APPROVAL 235.8 VOLVO 97312 ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF003341)	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MAN 341 TYPE E3



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Gear Oils for Commercial Vehicles</b>				
<b>TITAN CYTRAC RR SAE 75W-90</b>	Fully synthetic Premium Performance Hypoid Gear Oil for axle drives in railcars and heavy duty vehicles.	API GL-5 API MT-1 SCANIA STO 1:0	SAE J2360 SIEMENS FLENDER Gear Units for Railway Vehicles VOITH 3.325-340 VOITH 3.325-342 ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF000732)	Gmeinder Getriebebau railway applications ZF TE-ML 05B, 21B
<b>TITAN CYTRAC HSY SAE 75W-90</b>	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 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF000642)	MAN 341 TYPE E3 MAN 341 TYPE Z2 MAN 342 TYPE M3 MAN M 3343 TYPE S JOHN DEERE JDM J11E JOHN DEERE JDM J11G SCANIA STO 1:0 ZF TE-ML 05B, 07, 21B
<b>TITAN GEAR HYP LD SAE 80W-90</b>	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 SAE J2360 SCANIA STO 1:0	DETROIT DIESEL 93K219.02 MAN 341 TYPE GA1 MAN 342 TYPE M3 MB-APPROVAL 235.20 ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B, 21A (ZF000645)	MIL-PRF-2105 E ARVIN MERITOR 0-76-D MACK GO-J JOHN DEERE JDM J11E ZF TE-ML 07A



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## PENTOSIN becomes TITAN. Everything else remains the same.

In order to achieve a clearer product structure, PENTOSIN's well-known FFL range of double clutch transmission fluids is harmonized with our automotive leadbrand TITAN.

- ✓ The formulation of our proven products in the highest quality remains identical.
- ✓ The unique performance profiles with exclusive manufacturer approvals remain unchanged.
- ✓ It remains the same: FUCHS continues to offer you the most extensive portfolio of double clutch transmission fluids.

The FFL range remains what it has always been:  
Premium performance double clutch transmission fluids.

In that respect we remain true to ourselves - and to you.



# Transmission Fluids



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Double Clutch Transmission Fluids (DCTF)</b>				
<b>TITAN FFL-52529</b> 	Premium Performance DCTF with XTL®-Technology for ultimate friction stability and best fuel economy properties. Specially developed for the wet clutch of the DL382 (OCK) transmission of VW group.	–	VW TL 52 529-C (G 055 529)	–
<b>TITAN FFL-2</b>	Premium Performance DCTF. Specially developed for VW Double Clutch Transmission with wet clutch. [Provides optimum wear protection and excellent friction properties even under hard conditions and offers best shifting performance over the whole lifetime.]	–	JAC DTF630 VW TL 52 182 (G 052 182)	–
<b>TITAN FFL-3</b>	Premium Performance DCTF. Specially developed for ZF/Porsche Double Clutch Transmission with wet clutch. [Provides optimum wear protection and excellent friction properties even under hard conditions and offers best shifting performance over the whole lifetime.]	–	MB-APPROVAL 236.24 ZF TE-ML 11 (ZF004742)	BMW 83 22 2 167 666 (MTF-LT-5) JAGUAR LAND ROVER GX73- M1R564-AA PORSCHE 999 917 080 00
<b>TITAN FFL-4</b>	Premium Performance DCTF. Specially developed for GETRAG/BMW Double Clutch Transmission with wet clutch.	–	GETRAG (PWA05043)	BMW 83 22 0 440 214 BMW 83 22 2 147 477 BMW 83 22 2 148 578 BMW 83 22 2 148 579 BMW 83 22 2 446 673 McLaren: MP4-12C
<b>TITAN FFL-8</b>	Premium Performance DCTF. Specially developed for ZF / Porsche Double Clutch Transmission with wet clutch. Provides optimized friction properties and best load carrying capacity even under hard conditions over the whole lifetime.	–	ZF TE-ML 11 (ZF004743)	PORSCHE 000 043 210 44 PORSCHE 971 094 307 02A
<b>TITAN FFL-10</b> 	Premium Performance DCTF with XTL®-Technology. Specially developed for Mercedes-Benz-8-speed Double Clutch Transmissions with wet clutch. Provides optimum wear protection and excellent friction properties over the whole lifetime and offers best shifting performance even under hard conditions.	–	MB-APPROVAL 236.22	–
<b>TITAN FFL-RACING</b>	Premium Performance DCTF. Specially developed for highly stressed double clutch transmissions.	–	–	NISSAN GT-R (R35)

## Transmission Fluids



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Automatic Transmission Fluids (ATF)</b>				
<b>TITAN ATF 9134 FE</b>	Premium Performance Fuel Economy ATF with lower viscosity. Specially developed for Mercedes-Benz 9-speed automatic transmissions. (Type 9-G Tronic)	–	MB-APPROVAL 236.17	–
<b>TITAN ATF 7134 FE</b>	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. Product dyeing: blue.	–	MB-APPROVAL 236.15	–
<b>TITAN ATF 6400 <i>NEW</i></b>	Premium Performance ATF with reduced viscosity specifically formulated for automatic transmissions of Japanese and American manufacturers. Licensed according to DEXRON VI and MERCON LV. Product dyeing: red.	JASO M315 TYPE 1A-LV	DEXRON VI FORD MERCON LV ZF TE-ML 09	AISIN WARNER/AW-1 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 2 167 718 BMW 83 22 9 407 858 BMW 83 22 9 407 859 FIAT 9.55550-AV2 GM 9256039/88863400 HONDA DW-1 HYUNDAI NWS 9638 HYUNDAI SP IV JWS 3324 KIA SP-IV MITSUBISHI MA1 NISSAN MATIC S TOYOTA TYPE WS VW G 055 540 A2
<b>TITAN ATF 6009</b>	Premium Performance ATF, specially developed to optimize the shifting performance of latest generation ZF automatic transmissions. Product dyeing: green.	–	–	BMW 83 22 2 289 720 (ATF 3+) HONDA ATF TYPE 3.1



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Automatic Transmission Fluids (ATF)</b>				
<b>TITAN ATF 6008</b>	Premium Performance ATF, specially developed to optimize the shifting performance of ZF automatic transmissions. Product dyeing: green.	–	–	BMW 83 22 2 289 720 (ATF 3+) CHRYSLER 68157995AA <b>FIAT 9.55550-AV5</b> JAGUAR 02JDE 26444 LAND ROVER LR023288 VW G 055 162 VW G 060 162
<b>TITAN ATF 6006</b>	Ultra High Performance ATF, specially developed to optimize the shifting performance of ZF automatic transmissions. Product dyeing: none.	–	–	AML Oil No. 4G4319A509/AA/S BENTLEY PY112995PA BMW 83 22 0 142 516 BMW 83 22 2 305 396 HYUNDAI 040000C90SG JAGUAR FLUID 8432 LAND ROVER TYK500050 MASERATI 231603 VW G 055 005
<b>TITAN ATF 5500</b>	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. Product dyeing: none.	–	MAN 339 TYPE V1 MAN 339 TYPE V2 MAN 339 TYPE Z3 MAN 339 TYPE Z12 MB-APPROVAL 236.9 VOITH 150.014524.xx VOLVO 97341 ZF TE-ML 04D, 14C, 16M, 16S, 20C, 25C (ZF001797)	DEXRON III (H) ALLISON TES 295 ALLISON TES 389 MAN 339 TYPE Z4
<b>TITAN ATF 1</b>	Ultra High Performance ATF especially developed for highly stressed step automatic transmissions in passenger cars as well as in commercial vehicles. Product dyeing: none.	–	VOITH 150.014524.xx ZF TE-ML 04D, 11B, 14B, 16L, 17C (ZF000734)	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)
<b>TITAN ATF 4400</b>	Ultra High Performance ATF specifically formulated for Japanese passenger cars and light commercial vehicles, as well as for several European and American manufacturers. The high torque capacity exceeds the performance of many original fluids. Product dyeing: red.	JASO M315 TYPE 1A	–	DEXRON III BMW MINI 83 22 0 402 413 BMW MINI 83 22 7 542 290 CHRYSLER MS7176E/9602 (ATF +3/+4) DAIHATSU ALUMIX ATF MULTI FIAT 9.55550-AV1/AV4 FORD MERCON FORD M2C924-A/M2C922-A1 GM 9986195 HONDA ATF Z-I HYUNDAI SP III ISUZU BESCO ATF -II/ATF -III JATCO 3100 PL085/FWD (N402)/ JF506E (K17) JWS 3309/TYP T-IV MAZDA ATF D-III/ATF M-3/M-V MITSUBISHI SP-II-III NISSAN Matic C/D/J SAAB 3309 SUBARU ATF OIL/ATF OIL SPECI- AL/ATF HP SUZUKI ATF 3309/3317 TOYOTA TYPE D-2/T-T-II/T-III/T-IV VW G 052 990/055 025

## Transmission Fluids

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Automatic Transmission Fluids (ATF)</b>				
<b>TITAN ATF 4134</b>	Ultra High Performance ATF, specially developed to optimise shifting performance of Mercedes automatic transmissions. Product dyeing: red.	–	MB-APPROVAL 236.14 SSANG YONG (MB-automatic transmissions)	–
<b>TITAN ATF 4000</b>	Ultra High Performance ATF for use in automatic transmissions as well as other ATF applications. Licensed according to DEXRON III (H). Improved low-temperature shifting compared to DEXRON II. Product dyeing: red.	–	ALLISON C-4 ALLISON TES 389 DEXRON III (H) MAN 339 TYPE L1 MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 MB-APPROVAL 236.9 VOITH H55.6335.xx VOLVO 97341 ZF TE-ML 04D, 14A (ZF000728)	BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 81 22 9 407 738 BMW 83 22 0 403 248 BMW 83 22 9 407 765 BMW 83 22 9 407 807 BMW 83 22 9 407 858 BMW 83 22 9 407 859 CAT TO-2 FORD MERCON OPEL 19 40 707; OPEL 19 40 767 VW TL 521 62 (G 052 162) ZF TE-ML 02F, 03D, 09, 11B, 17C
<b>TITAN ATF 3353</b>	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. Product dyeing: red.	–	MB-APPROVAL 236.12 VW TL 52533 (G 052 533)	DEXRON III BMW 83 22 9 407 765 FORD WSA-M2C195-A FORD WSS-M2C202-B FORD WSS-M2C922-A1 SSANG YONG
<b>TITAN ATF 3000</b>	Super High Performance DEXRON II (D) ATF for automatic transmissions in commercial vehicles, machinery and passenger cars according to manufacturer's documentation. Product dyeing: red.	–	MAN 339 TYPE L2 MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 VOITH H55.6335.xx ZF TE-ML 04D, 14A (ZF000720)	DEXRON II (D) ALLISON 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 ESP-M2C138-CJ FORD ESP-M2C166-H FORD M2C9010-A OPEL 19 40 700 OPEL 19 40 707 RENK-DOROMAT ZF TE-ML 02F, 03D, 09, 11A, 17C
<b>TITAN ATF 10</b>	High Performance ATF for transmissions, power steering systems and hydraulic drives which require a GM-specification TYPE A, Suffix A fluid. Product dyeing: red.	–	MB-APPROVAL 236.2	TASA MAN 339 TYPE A

**TITAN**

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Continuously Variable Transmission Fluids (CVTF)</b>				
<b>TITAN CVTF PRO 236.20 <i>NEW</i></b>	Ultra High Performance CVTF specially designed for Mercedes-Benz and Ford CVT-gearboxes. Product dyeing: none.	–	MB-APPROVAL 236.20 FORD WSS-M2C928-A	–
<b>TITAN CVTF FLEX <i>NEW</i></b>	Ultra High Performance CVTF specially designed for use in many CVT-gearboxes using push-belts or transmission chains made of steel. Product dyeing: none.	–	–	BMW 83 22 0 136 376 BMW 83 22 0 429 154 CHRYSLER CVTF+4 DAIHATSU AMMIX CVTF-DC/DFE DODGE/JEEP NS-2/CVTF+4 FORD WSS-M2C933-A/MERCON C GM 19260800 GM DEX-CVT HONDA HCF-2 HYUNDAI/KIA SP-CVT1 MAZDA CVTF 3320 MITSUBISHI CVTF-J1/J4 NISSAN NS-1/NS-2/NS-3 SUBARU Lineartronic CV-30/CVTF/CVTF I/E-CVT/CVT SUZUKI TC/NS-2/CVT Green 1/CVT Green 2/CVTF 3320 TOYOTA TC/CVT FE VW TL 521 80 (G 052 180) VW TL 525 16 (G 052 516)



Formerly **PENTOSIN**



## PENTOSIN becomes TITAN. Everything else remains the same.

In order to achieve a clearer product structure, PENTOSIN's well-known CHF range of central hydraulic and power steering fluids is harmonized with our automotive leadbrand TITAN.

- ✓ The formulation of our proven products remains identical.
- ✓ The unique performance profiles with exclusive manufacturer approvals remain unchanged.
- ✓ It remains the same: FUCHS continues to offer you an excellent portfolio of central hydraulic and power steering fluids.

The CHF range remains what it has always been:  
Central hydraulic and power steering fluids of the highest quality.

In that respect we remain true to ourselves - and to you.



## Specialties

**PENTOSIN → TITAN**



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Central Hydraulic / Power Steering Fluids</b>				
<b>TITAN CHF 115</b>	Premium Performance Power Steering and Central Hydraulic Fluid with a wide application and approval profile for various manufacturers. Product dyeing: green.	FORD WSS-M2C204-A	CHRYSLER MS-11655B MAN M 3289 MB-APPROVAL 345.0 PSA S71 2710 ZF TE-ML 02K (ZF004744) VW TL 52 146 (G 002 000)	BENTLEY JNV862564F BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 FENDT X 902 011 622 OPEL B 040 0070 PORSCHE 000 043 203 33 SAAB 3032 380 VOLVO 1161529
<b>TITAN CHF 202</b>	Premium Performance Power Steering and Central Hydraulic Fluid with a wide application and approval profile for various manufacturers. Product dyeing: green.	FORD WSS-M2C204-A2	HYUNDAI 00232-19017 OPEL B 040 2012 VW TL 52 146.01 (G 004 000)	AUDI/VW G 004 012 PORSCHE 000 043 206 56 SAAB 93160548 VOLVO 30741424 LAND ROVER LR003401
<b>TITAN CHF 5364 B</b>	Premium Performance Central Hydraulic Fluid approved by Mercedes-Benz for level control systems in passenger cars formulated with fully-synthetic base oils. Product dyeing: none.	–	MB-APPROVAL 344.0	–
<b>TITAN LHM+</b>	Ultra High Performance Central Hydraulic Fluid for use in the comfort and safety area of PSA vehicles. Product dyeing: green-yellow.	–	PSA B71 2710	IVECO 18-1823 CNH MAT 3630 NH 610A SDFG OF16115
<b>TITAN PSF</b>	Super High Performance Power Steering Fluid approved by Mercedes-Benz for passenger cars and commercial vehicles. Product dyeing: none.	–	MB-APPROVAL 236.3	–

# MULTIFUNCTIONAL OILS

In many applications in the agricultural and construction industries there are, in addition to Lubricants that are only used for a specific component so-called all-rounders: STOU and UTTO products.

Both were developed for use in transmissions and hydraulic systems and can also be used in brakes running in an oil bath (wet brakes).

STOU products can also be used in the engine if the relevant specifications are met. In simple terms, this means that a STOU is a UTTO with engine performance.

The advantages of such all-rounders are obvious: on the one hand, a real sort rationalization is possible, on the other hand, the risk of incorrect filling is significantly reduced.

FUCHS is a real pioneer in these UTTO and STOU lubricants and offers a comprehensive product range.



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**Multifunctional Oils**

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## Multifunctional Oils



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>UTTO Oils for Construction Machinery</b>				
<b>TITAN UTTO PRO</b>	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 ESN-M2C 134-D JOHN DEERE JDM J20C JOHN DEERE JDM J20D KOMATSU AXO 80 (KES 07.866) KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1143, 1135 VOLVO WB 102 ZF TE-ML 03E, 03F, 05F, 06K
<b>TITAN UTTO WB <i>NEW</i></b>	Ultra High Performance Multifunctional Oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for construction and agricultural machinery.	–	VOLVO WB 101 ZF-TE ML 03E, 03F, 05F, 06K (ZFxxxxxx)	AGCO Q-1826 (Whitefarm), Powerfluid 821 XL ALLISON C-4 API GL-4 CASE MS 1210, 1209, 1207, 1206, 1205, 1204 CATERPILLAR TO-2 CNH MAT 3505, 3506, 3525 FNHA-2-C-201.00 FORD ESN M2C41-B, M2C53-B, M2C92-A, M2C 134-D JOHN DEERE JDM J20C KUBOTA UDT FLUID MASSEY FERGUSSON CMS M 1145, 1143, 1141, 1135 SAE J300: 10W-30



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>UTTO Oils for Construction Machinery</b>				
<b>TITAN UTTO PLUS</b>	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: 75W-80 CASE MS 1207/1209/1210 FORD M2C86-C, ESN-M2C134-D JOHN DEERE JDM J20C JOHN DEERE JDM J20D JOHN DEERE JDM J14 KOMATSU KES 07.866 KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1143, 1135 STEYR 397.88.0001 VOLVO WB 101
<b>TITAN UTTO ZF</b>	Super High Performance Gear Oil for ZF axles with limited-slip differentials. Recommended for construction machinery and material-handling vehicles axles.	API GL-4	ZF TE-ML 05F, 06K, 17E, 21F (ZF000661)	VOLVO WB 101 ZF TE-ML 03E
<b>TITAN UTTO B</b>	High Performance Multifunctional Oil for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for agricultural tractors, civil engineering backhoes and construction forklifts.	–	–	API GL-4 AGCO powerfluid 821 XL AGCO Q-186 (whitefarm) ALLISON C-4 CASE MS 1206/1207/1209/1210/1230 CLAAS/LANDINI/SAME - Transmission CNH MAT 3505/3506/3509/3525/3526 FNHA-2-C-200.00/-201.00 FORD M2C48-C3 FORD M2C134-D FORD M2C86-B/C JOHN DEERE JDM J20C MF CMS M1135/1141/1143/1145 NH 410B SDFG OT 1891 A VALTRA G02-08
<b>TITAN UTTO TO-4 SAE 10W</b>	Super High Performance multifunctional lubricant for hydraulics in construction machinery.	API GL-4 CAT TO-4	ZF TE-ML 03C (ZF002186)	ALLISON C-4 KOMATSU KES 07.868.1
<b>TITAN UTTO TO-4 SAE 30</b>	Super High Performance multifunctional transmission lubricant for construction machinery.	API GL-4 CAT TO-4	ZF TE-ML 03C, 07F (ZF002185)	ALLISON C-4 ALLISON TES-439 KOMATSU KES 07.868.1
<b>TITAN UTTO TO-4 SAE 50</b>	Super High Performance multifunctional lubricant for final drives in construction machinery.	API GL-4 CAT TO-4	–	KOMATSU KES 07.868.1

## Multifunctional Oils



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>UTTO Oils for Agricultural Machinery</b>				
<b>AGRIFARM UTTO VT</b>	Ultra High Performance Multi-functional Oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for agricultural and construction machinery.	API GL-4	ZF TE-ML 06B, 06D, 06N, 07B (ZF002035)	ACEA E2 API CF-4/ CG-4/SF ALLISON C-4 CAT TO-2 FORD M2C159-B/C JOHN DEERE JDM J20C JOHN DEERE JDM J27 MASSEY FERGUSON CMS M 1145 (1144, 1143, 1139, 1135) SAE J300: 10W-30 SAE J306: 80W-80 ZF TE-ML 06C, 06F, 06Q, 06R
<b>AGRIFARM UTTO MP</b>	Super High Performance Multi-functional Oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for agricultural and construction machinery.	API GL-4	ZF TE-ML 03E, 05F, 06K, 17E, 21F (ZF002183)	AGCO Powerfluid 821 XL AGCO Q-186 (Whitefarm) ALLISON C-4 CASE MS 1230, 1210, 1209, 1207, 1206 CLAAS / LANDINI / SAME-Transmission CNH MAT 3505, 3506, 3509, 3525, 3526, 3540 FNHA-2-C-200.00 / -201.00 FORD M2C48-C3, ESN M2C86-B/C, M2C134-D JOHN DEERE JDM J20C KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1145, 1143, 1141, 1135 NH 410B SAE J300: 10W-30 SAE J306: 75W-80 SDFG OT 1891 A VALTRA G2-08, G2-B10

# AGRIFARM

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>UTTO Oils for Agricultural Machinery</b>				
<b>AGRIFARM UTTO LN</b>	Super High Performance Transmission Hydraulic Fluid developed as a problem-solver for tractors in which conventional UTTO oils led to noisy wet brakes.	API GL-4 SAE J300: 20W-30	–	AGCO Powerfluid 821 XL AGCO Q-186 (Whitefarm) ALLISON C-4 CASE MS 1206, 1207, 1209, 1210, 1230 CNH MAT 3505, 3506, 3509, 3525, 3526 FNHA-2-C-200.00 / -201.00 FORD M2C48C3, ESN M2C86-B/C, M2C134-D JOHN DEERE JDM J20C MASSEY FERGUSON CMS M 1141, 1135 SAE J306: 80W-85 CLAAS / LANDINI / SAME-Transmission / DEUTZ-FAHR FENDT (non Vario)
<b>STOU Oils for Agricultural Machinery</b>				
<b>AGRIFARM STOU MC PRO SAE 10W-40</b>	Ultra High Performance Multifunctional Oil (STOU/MFO) of the latest generation for agricultural vehicles.	SAE J300: SAE 10W-40	DEUTZ DQC III-10	ACEA E7, E5, E4, E3, 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 J20C NEW HOLLAND 82009201/2/3 NH 030C, 330G, 330H, 410B, 420A, 526C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 SAE J306: SAE 80W-90 ZF TE-ML 06A, 06B, 06C, 06F, 06L, 07B * without HOLMER
<b>AGRIFARM STOU MC SAE 10W-30</b>	MC-synthesis Super High Performance Multifunctional, Oil (STOU/MFO) for engines, manual gearboxes, wet brakes, hydraulics and turbo-drives in tractors and other agricultural machinery.	API GL-4 SAE J300: SAE 10W-30	DEUTZ DQC I-02 ZF TE-ML 06B, 06F, 07B (ZF000733)	AFNOR NFE 48603 HV DIN 51524-3: HVLP (-D) ACEA E3 API CG-4 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 NEW HOLLAND 82009201/2/3 NH 410B, 420A MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 SAE J306: SAE 75W-80 ZF TE-ML 06A, 06C

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>STOU Oils for Agricultural Machinery</b>				
<b>AGRIFARM STOU MC SAE 10W-40</b>	Super High Performance Multifunctional 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.	API GL-4 SAE J300: SAE 10W-40	DEUTZ DQC I-02 FENDT KDM 17/2012 ZF TE-ML 06B, 06F, 07B (ZF000729)	API GL-5 in tractors* ACEA E3 API CG-4 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 J20C NEW HOLLAND 82009201/2/3 NH 030C, 330G, 410B, 420A, 526C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 SAE J306: SAE 80W-90 ZF TE-ML 06A, 06C, 06L * without HOLMER
<b>AGRIFARM STOU SAE 15W-40</b>	High Performance Multifunctional Oil (STOU / MFO) for engines, manual gearboxes, wet brakes, hydraulics in tractors and other agricultural equipment.	API GL-4	FENDT KDM 17/2012	ACEA E2 API CF-4 CNH MAT 3525, 3526 DIN 51524 : HLP (-D) FNHA 200.00, 201.00 FORD M2C134-D, M2C159-B/C JOHN DEERE JDM J20C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 NEW HOLLAND 82009201/2/3 NH 420A SAE J306: 80W-90 SDFG OU 1391, OT 1891 STEYR D-401 ZF TE-ML 06A, 06B, 06C, 07B

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Agricultural Engine Oils</b>				
<b>AGRIFARM MOT X-LA SAE 10W-40</b>	Premium Performance Engine Oil for agricultural vehicles. Universal engine oil for application in modern vehicles with exhaust after treatment as well as in older vehicles. Best engine cleanliness and outstanding wear protection.	ACEA E9/E7/E6/ E4 API CJ-4/ CI-4 PLUS/ CI-4/ CH-4 CAT ECF-3	DEUTZ DQC IV-10 LA (inkl. TTCD) MB-APPROVAL 228.51	CNH MAT 3521 CUMMINS CES 20081
<b>AGRIFARM MOT SAE 10W-40</b>	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.	ACEA E7 API CI-4 GLOBAL DHD-1 JASO DH-1	–	ALLISON C-4 CAT ECF-2 CUMMINS CES 20071/2/6/7/8 DAF DEUTZ DQC III MACK EO-M PLUS MAN M 3275-1 MTU DDC TYPE 2 RENAULT RLD/RLD-2 VOLVO VDS-3
<b>AGRIFARM MOT SAE 15W-40</b>	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.	ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1-a/ ECF-2	DEUTZ DQC III-10 MB-APPROVAL 228.3	ALLISON C-4 CAT TO-2 CASE MS 1121 CUMMINS CES 20071/2/6/7/8 DETROIT DIESEL 93K215 IVECO 18-1804 CLASSE T2 E7 MACK EO-N MAN M 3275-1 MTU DDC TYPE 2 NH 330H RENAULT RLD/RLD-2 STEYR A-201 VOLVO VDS-3
<b>Agricultural Gear Oil</b>				
<b>AGRIFARM GEAR LS SAE 90</b>	Super High Performance EP Gear Oil for axles fitted with limited-slip differentials in agricultural and other machinery.	API GL-5	–	NH 520B SDFG OP 1705LS VOLVO 97310 ZF TE-ML 05C, 12C, 16E
<b>Agricultural Milking Machine Oil</b>				
<b>AGRIFARM MILKING MACHINE OIL</b>	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



## SERVICE PRODUCTS

The FUCHS MAINTAIN range of workshop and service products is a comprehensive portfolio of coolants, brake fluids and fuel additives. FUCHS MAINTAIN offers your vehicle optimum protection at all times.

Our MAINTAIN products match with nearly every vehicle type and offer the best possible protection together with the latest technology.



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## Service Products

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Antifreezes</b>				
<b>MAINTAIN FRICOFIN LL</b>	Premium Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. Product dyeing: orange.	ASTM D 3306 TYPE I ASTM D 6210 TYPE I-FF BS 6580:2010 SAE J814 FORD WSS-M97-B44-D JAGUAR LAND ROVER STJLR.651.5003 FVV Heft R443 KSM 2142 UNE 26-361-88/1	Bez.Reg.Arnsbg. E62.12.22.64-2011-1 CAT / MWM TR 0199-99-2091 DAF 74002 DEUTZ DQC CB-14 MAN 324 TYPE SNF MB-APPROVAL 325.3 <b>MTU MTL 5048</b>	AFNOR NFR 15-601 TYPE I AS/NZS 2108:2004 TYPE A ASTM D 4985 SAE J1034 ADE (ATLANTIS DIESEL ENGINES) BAIC GROUP FOTON Q-FPT 2313005-2013 CATERPILLAR MAK A4.05.09.01 CHRYSLER MS 12106 CNH MAT 3624 CUMMINS (ISBe engines at DAF and Leyland) CUMMINS CES 14603, CES 14439 DETROIT DIESEL 93K217 FIAT 9.55523 GM GMW 3420 (6277M)/ GME L 1301 HYUNDAI MS 591-08 JASO M325 JIS K2234 JOHN DEERE JDM H5 KOMATSU AF-NAC (07.892 (2009)) LIEBHERR MD 1-36-130 MACK 014 GS 17009 MAZDA MEZ MN 121 D PSA B 71 5110 RENAULT 41-01-001/- -S Type D <b>Bergen Engines 2.13.01</b> SAAB B 040 1065 SKODA 61-0-0257 TOYOTA TSK 2601G-8A VW TL 774-D/F (G12+ / different colour) VOLVO COOLANT VCS (STD 418-0001)
<b>MAINTAIN FRICOFIN LL 50</b> <b>NEW</b>	Premium Performance Coolant Ready-Mix based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. Offers frost protection down to -35 °C. Product dyeing: orange.	ASTM D 3306 TYPE III ASTM D 6210 TYPE III-FF BS 6580:2010	CAT / MWM TR 0199-99-2091 DAF 74002 DEUTZ DQC CB-14 MAN 324 TYPE SNF MB-APPROVAL 326.3	ASTM D 4985 SAE J1034 Bez.Reg.Arnsbg. E62.12.22.64-2011-1 CATERPILLAR MAK A4.05.09.01 CHRYSLER MS 12106 CNH MAT 3624 CUMMINS CES 14603, CES 14439 DETROIT DIESEL 93K217 FIAT 9.55523 FORD WSS-M97-B44-D2 GM GMW 3420 (6277M) HYUNDAI MS 591-08 JAGUAR LAND ROVER STJLR.651.5003 JOHN DEERE JDM 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 VAUXHALL GME L1301 VOLVO COOLANT VCS (STD 418-0001) VW TL 774-D/F (G12+ / different colour)

# MAINTAIN

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Antifreezes</b>				
<b>MAINTAIN FRICOFIN LL 35</b>	Premium Performance Coolant Ready-Mix based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. Offers frost protection down to -25°C. Product dyeing: orange.	ASTM D 3306 TYPE III ASTM D 6210 TYPE III-FF BS 6580:2010	–	–
<b>MAINTAIN FRICOFIN V</b>	Ultra High Performance Coolant Additive based on monoethylene glycol. Free of nitrites, amines and phosphates. Product dyeing: pink - violet.	ASTM D 3306 TYPE V BS 6580:2010	VW TL 774-J (G13)	–
<b>MAINTAIN FRICOFIN DP</b>	Ultra High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. Product dyeing: pink - violet.	AFNOR NF R 15-601 TYPE 1 AS/NZS 2108:2004 TYPE A ASTM D 3306 TYPE I ASTM D 4985 BS 6580:2010 SAE J814 CUMMINS CES 14603	DEUTZ DQC CC-14 MAN 324 TYPE Si-OAT MB-APPROVAL 325.5 MB-APPROVAL 325.6	DETROIT DIESEL 93K217 SCANIA TB 1451 VW TL 774-G (G12++)
<b>MAINTAIN FRICOFIN DP 50</b> <b>NEW</b>	Ultra High Performance Coolant Ready-Mix based on monoethylene glycol. Offers frost protection down to -35 °C. Free from nitrite, amine and phosphate. Product dyeing: pink - violet	AFNOR NF R 15-601 TYPE 3 ASTM D 3306 TYPE III ASTM D 4985 BS 6580:2010 SAE J814 CUMMINS CES 14603	DEUTZ DQC CC-14 MB-APPROVAL 326.5 MB-APPROVAL 326.6 VW TL 774-G (G12++)	DETROIT DIESEL 93K217 MAN 324 TYPE Si-OAT SCANIA TB 1451
<b>MAINTAIN FRICOFIN DP 35</b>	Ultra High Performance Coolant Ready-Mix based on monoethylene glycol. Free from nitrite, amine and phosphate. Offers frost protection down to -25°C. Product dyeing: pink - violet	ASTM D 3306 TYPE III ASTM D 4985 BS 6580:2010	–	–
<b>MAINTAIN FRICOFIN HDD</b>	Ultra High Performance Engine Coolant concentrate based on monoethylene glycol. Free of amines and phosphates with low silicate technology. Product dyeing: yellow.	ASTM D 3306 TYPE I ASTM D 4985 ASTM D 6210 TYPE I-FF ASTM D 7583 AS/NZS 2108:2004 TYPE A BS 6580:2010 SAE J814 CHRYSLER MS 7170 CHRYSLER MS 9769 DETROIT DIESEL 75E298 FORD ESE-M97B44-A FORD ESE-M97B18-C FORD WSS M97B51-A1 GM 1825M & GM 1899M JIS K2234 MACK 014GS17004	MTU MTL 5048	CASE MS 1710 CAT EC-1 CUMMINS CES 14603 DETROIT DIESEL 93K217 (NOAT) FREIGHTLINER 48-2288D IVECO 18-1830 KENWORTH R026-170-97 MAN 324 TYPE N NEW HOLLAND WSN-M97B18-D PACCAR CS 0185 TOYOTA Motor Corp. RP 329
<b>MAINTAIN FRICOFIN</b>	Super High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. Product dyeing: blue-green.	AFNOR NF R 15-601 TYPE 1 AS/NZS 2108:2004 TYPE A ASTM D 3306 TYPE I ASTM D 4985 BS 6580:2010 CUNA NC 956-16 SAE J814 SAE J1034	BMW GS 94000 (BMW N 600 69.0) CAT / MWM TR 0199-99-2091 DEUTZ DQC CA-14 GE JENBACHER TA 1000-0201 MAN 324 TYPE NF MAN 324 TYPE NF PRITARDER MB-APPROVAL 325.0 MTU MTL 5048 PN-C 40007:2000 VOITH TURBO 172.00225010	DAF 74001 LIEBHERR TLV 035/TLV 23009 A OPEL/GM B 040 0240 VW TL 774-C (G11)

## Service Products

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Antifreezes</b>				
<b>MAINTAIN FRICOFIN 50</b> <b>NEW</b>	Super High Performance Coolant Ready-Mix based on monoethylene glycol. Offers frost protection down to -35 °C. Free from nitrite, amine and phosphate. Product dyeing: blue-green.	AFNOR NF R 15-601 TYPE 3 ASTM D 3306 TYPE III ASTM D 4985 BS 6580:2010 SAE J814	DEUTZ DQC CA-14 MB-APPROVAL 326.0	BMW GS 94000 (BMW N 600 69.0) DAF 74001 JENBACHER TA 1000-0201 LIEBHERR TLV 035/TLV 23009 A MAN 324 TYPE NF MAN 324 TYPE NF PRITARDER MTU MTL 5048 CAT / MWM TR 0199-99-2091 OPEL/GM B 040 0240 PN-C 40007:2000 VOITH TURBO 172.00225010 VW TL 774-C (G11)
<b>MAINTAIN FRICOFIN 35</b>	Super High Performance Coolant Ready-Mix based on monoethylene glycol. Offers frost protection down to -25°C. Free from nitrite, amine and phosphate. Product dyeing: blue-green.	ASTM D 3306 TYPE III ASTM D 4985 BS 6580:2010	–	JENBACHER TA 1000-0201
<b>MAINTAIN FRICOFIN S</b>	High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. Product dyeing: light green.	ASTM D 3306 TYPE I BS 6580:2010	–	–

# MAINTAIN

Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Brake Fluids</b>				
<b>MAINTAIN UNIVERSAL BF DOT 4</b>	High Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, trucks and motorcycles.	UNE 26-109-88 FMVSS NR.116 DOT 4 SAE J 1704 ISO 4925	-	-
<b>Specialties – Oil Binder</b>				
<b>MAINTAIN ABSORPEX</b>	Oil Binder Type III R, Chemical Binder	Reported by Hygiene Institut Gelsenkirchen MPL	-	-

# SPECIALTIES

Buzzwords such as fuel economy and energy saving are becoming more and more popular. In the light of this, and in order to meet the special demands of a large construction machinery manufacturer, we have developed and successfully launched the new RENOLIN XtremeTemp hydraulic oil.

RENOLIN XtremeTemp significantly reduces fuel consumption while at the same time offering high efficiency, longer service life and thereby less maintenance and lower failure related downtimes as well as a broader operating temperature range. RENOLIN XtremeTemp significantly reduces the operating costs of machinery such as earth-moving machines.

You can benefit from our experience, too.



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### Specialties

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Rapidly Biodegradable Lubricants (Engine Oil, Multifunctional Oil, Hydraulic and Lubricating Oils, Greases)	52-54
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Multigrade Hydraulic Oils	55
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Hydraulic Oils	56
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Greases	58-61
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## Specialties



Product name	Description	Specifications	Approvals	FUCHS Recommendations
<b>Biodegradable Engine Oil</b>				
<b>PLANTO MOT SAE 10W-40 <i>NEW</i></b>	Low-ash diesel engine oil for modern diesel engines. Biodegradable and especially recommend for use with alternative diesel fuels.	–	DEUTZ DQC IV-18 LA	ACEA E7/E6 API CK-4
<b>Biodegradable Multifunctional Oil (UTTO)</b>				
<b>PLANTO HYTRAC PLUS</b>	Biodegradable Super High Performance Multifunctional Oil (UTTO) for tractor gearboxes with or without wet brakes.	SAE 10W-30 SAE 80	–	CASE MS 1207, 1209 FORD M2C134-D JOHN DEERE JDM J20C NEW HOLLAND NH 410 BS MASSEY FERGUSON CMS M1127, 1135, 1143 HLP/HVLP ISO VG 32, 46, 68, 100 according to DIN 51 524-2 (-3)

# PLANTO

Product name	Description	Density at 15 °C kg/m <sup>3</sup>	Flash point Clev. °C	Kin. visc. at 40 °C mm <sup>2</sup> /s	Kin. visc. at 100 °C mm <sup>2</sup> /s	VI	Pour-point °C	Main application area
<b>Environmentally Friendly Hydraulic and Lubricating Oils</b>								
<b>PLANTOSYN 3268</b> 	PLANTOSYN 3268 is a biodegradable hydraulic and lubricating oil based on fully saturated synthetic esters. Biodegradable acc. to OECD 301 B >60%. High wear protection, good elastomer and yellow metal compatibility, very good oxidation stability. Surpasses the requirements on hydraulic oils HEES acc. to ISO 15380 and HVLP acc. to DIN 51524-3 (except: Dry TOST test). Awarded the EU Ecolabel.	913	280	46	8.2	150	-36	Suitable for all mobile and stationary hydraulic systems for which the use of a rapidly biodegradable HEES hydraulic oil according to DIN ISO 15380 is recommended (e.g. in agriculture and forestry). Can be used where unsaturated, synthetic esters have failed. Extension of oil changing intervals possible. Oil sump temperature: -30 °C to 100 °C. Observe DIN ISO 15380 when making changeovers.  Approved by: MANNESMANN REXROTH Sauer SUNDSTRAND FENDT KDM 28/2006, O&K Baumaschinen  Recommended for CAT BF-1, KRAMER ALLRAD; PLAFINGER; SAUER DANFOSS; TIMBERJACK; VALMET/ KOMATSU; FOREST; PONSSE
<b>PLANTOSYN 3268 ECO</b> 	PLANTOSYN 3268 ECO – hydraulic oil based on synthetic esters with additives to increase ageing stability. Biodegradable acc. to OECD 301 B >60%. High wear protection. Surpasses the requirements acc. to ISO 15380: HEES DIN 51524-3: HVLP (except: Dry TOST test). Awarded the EU Ecolabel.	920	300	47	9.5	191	-33	Universally recommended for hydraulic systems from -30 °C to +90 °C (oil sump temperature). The changeover guidelines according to DIN ISO 15380 must be observed.  Approved by FENDT KDM 28/2006
<b>PLANTOLUBE KS 32-N</b>	Biodegradable tacky and lubricating oil based on rapeseed oils. For chains and other so-called loss lubrication points.	921	205	32	7.6	230	-36	Universally usable as lubricating oil in chains and other so-called loss lubrication points in the agriculture and forestry sector. For the lubrication of conveyor machines in saw mills and in the animal feed stuff industry. For the use in applications where a biodegradable chain oil is required.
<b>PLANTO TAC 68</b> 	Biodegradable high performance chain saw oil based on rapeseed oils. Excellent lubrication behaviour, good ageing resistance. Awarded the EU Ecolabel.	924	>270	68	12.0	216	-39	For the professional use in chain saws.  KWF Approvals  Recommendations: Husqvarna, Stihl, Solo, Dolmar

## Specialties

## PLANTO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil viscosi- ty at 40 °C [mm <sup>2</sup> /s]	Tem- pera- ture range [°C]	Approvals, recommen- dations	Main application area
<b>Rapidly Biodegradable Greases</b>								
<b>PLANTOGEL ECO 1 N</b> 	ISO-L-XB(F) BEA 1	Calcium Rape seed oil	–	1	36	-20 / +80	EU Ecolabel	Rapidly biodegradable lubricating grease with EU Ecolabel, e.g. for lock gates or in agriculture and forestry.
<b>PLANTOGEL ECO 2 N</b> 	ISO-L-XB(F) BEA 2	Calcium Rape seed oil	–	2	36	-20 / +80	EU Ecolabel	Rapidly biodegradable lubricating grease with EU Ecolabel, e.g. for lock gates or in agriculture and forestry.
<b>PLANTOGEL ECO 000 S</b>	–	Li/Ca synth. ester	–	00-000	55	-40 / +120	–	Rapidly biodegradable semi-fluid grease for lubrication of plain and roller bearings in commercial vehicles and construction machinery with central lubrication systems. Also for gear systems which are exposed to low to medium loads.
<b>PLANTOGEL ECO 2 S</b> 	–	Li/Ca synth. ester	–	2	110	-40 / +120	EU Ecolabel	Rapidly biodegradable EP multipurpose grease for plain and roller bearing lubrication, e.g. water turbines or in agriculture and forestry. Good pumpability in central lubricating systems.
<b>PLANTOGEL ECO 2 FS</b>	–	Li/Ca synth. ester	•	2	200	-30 / +120	–	Rapidly biodegradable EP multipurpose grease with solid lubrications for lubrication of plain and roller bearings, e.g. commercial vehicles and construction machinery.
<b>PLANTOGEL ECO 402 S</b> 	–	Ca synth. ester	–	2	390	-40 / +120	EU Ecolabel	High performance bio-grease, water (salt water) resistant.

# RENOLIN



Product name	Description	Density at 15 °C kg/m <sup>3</sup>	Flash point Clev. °C	Kin. visc. at 40 °C mm <sup>2</sup> /s	Kin. visc. at 100 °C mm <sup>2</sup> /s	VI	Pour-point °C	Main application area
<b>Hydraulic Oils</b>								
<b>TITAN HYD 1030</b>	Super High Performance multigrade hydraulic oil for hydraulic systems in vehicles and working machines.	868	240	68	11.0	153	-36	For application in hydraulic systems in vehicles and working machines. Approved for Denison HF0. Recommended for CASE MS 1216.
<b>TITAN HYD 46</b>	Hydraulic oils with additives to improve the ageing and oxidation stability. Good wear protection, demulsifying (good water separation), good air release properties, zinc-containing AW/EP additive system.	875	210	46	6.9	105	-24	Universal applicable hydraulic fluids if good ageing resistance, good wear protection and demulsifying properties are required in stationary and mobile hydraulic systems, even at high load and high temperature.
<b>TITAN HYD 68</b>		881	224	68	8.8	100	-24	
<b>RENOLIN HVI 46</b>	Hydraulic and lubricating oils with a high viscosity index and additives to improve ageing stability, corrosion protection and wear protection. Mineral oil based, demulsifying and zinc-containing AW/EP additives.	879	186	46	8.1	150	-45	Suitable for all hydraulic systems, especially when a high viscosity index is required, reduced viscosity during cold start-up, high viscosity at operating temperature. High VI provides multigrade characteristics.
<b>RENOLIN HVI 68</b>		868	240	68	11.0	153	-36	
<b>TITAN B 20 Z</b>	High viscosity index hydraulic fluid, specially designed for tractors and construction machinery working in severe conditions. Product dyeing: blue	878	210	46	8.5	150	-36	Hydraulic oil with excellent wear protection and high viscosity index suitable for machinery working with significant temperature variations.

## Specialties



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil viscosi- ty at 40 °C [mm <sup>2</sup> /s]	Tem- pera- ture range [°C]	Approvals, recommen- dations	Main application area
<b>RENOLIT EP 2</b>	KP2N-30 ISO-L-X- BDEB 2	Lithium Mineral oil	–	2	220	-20 / +130	–	Multipurpose grease suitable for use in high pressure greasing equipment
<b>RENOLIT GP 2</b>	K2K-30 ISO-L-X- CCEA 2	Lithium Mineral oil	–	2	180	-30 / +120	–	Ageing resistant multipurpose grease with good corrosion protection properties for lubrication of plain and roller bearings, easily pumpable in central lubricating systems
<b>RENOLIT LX EP 2</b>	KP2N-30 ISO-L-X- CDEB 2	Li-X Mineral oil	–	2	170	-30 / +150	–	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease
<b>RENOLIT LZR 000</b>	GP00- 000G-40	Li/Ca Mineral oil	–	00-000	43	-40 / +110	MB-Sheet 264.0 MAN 283 LI-P 00/000	Semi-fluid grease for central lubricating systems of commercial vehicles
<b>RENOLIT BFX</b>	KP2K-20	Li/Ca Mineral oil	–	2	220	-20 / +130	-	For construction equipment and agricultural machines with high demands for water resistance and extreme pressure.
<b>RENOLIT MO 2</b>	KPF2N-20 ISO-L-X- CDEB 2	Lithium Mineral oil	x	2	100	-20 / +130	–	For mechanically loaded lubricating points, grease with MoS <sub>2</sub> , construction industry, quarries and mining, rubber and concrete factory
<b>MEISSELPASTE</b>	-	Al-X	x	2	320	-20 / +1100	–	Copper-coloured special paste for socket tools and bushings of hydraulic hammers.

# RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil viscosi- ty at 40 °C [mm <sup>2</sup> /s]	Tem- pera- ture range [°C]	Appro- vals, re- commen- dations	Main application area
<b>RENOLIT AUTO BLACK</b>	KPF2N-20 ISO-L-X- CDEB 2	Lithium Mineral oil	x	2	100	-20 / +130	-	For mechanically loaded lubricating points, grease with MoS <sub>2</sub> , agricultural machines, commercial vehicles.
<b>RENOLIT AUTO EP</b>	KP2N-20 ISO-L-X- BDEB 2	Lithium Mineral oil	-	2	220	-20 / +140	-	Multipurpose grease suitable for use in high pressure greasing equipment, specially recommended for the automotive sector.
<b>RENOLIT AUTO MPG</b>	K2K-30 ISO-L-X- CCEA 2	Lithium Mineral oil	-	2	110	-30 / +120	-	Ageing resistant multipurpose grease with good corrosion protection properties for lubrication of plain and roller bearings, easily pumpable in central lubricating systems, specially recommended for the automotive sector.

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FUCHS SILKOLENE products focus exclusively on the two-wheeler lubricants sector and are among the most important brands in the two-wheeler segment in various regions, such as the UK. FUCHS SILKOLENE is particularly well known in racing and offers a large product range for all requirements in the motorcycle, moped, scooter and quad bike sector.

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## Motorcycle Lubricants

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at the limit

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---

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The name says it all

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Lubricants for construction companies



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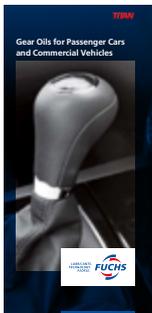
Rapidly biodegradable industrial lubricants – PLANTO



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### Note

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Our products must not be used in aircraft or spacecraft. Our products may be used in the manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

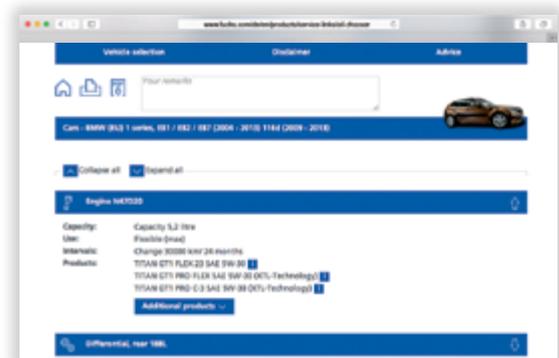
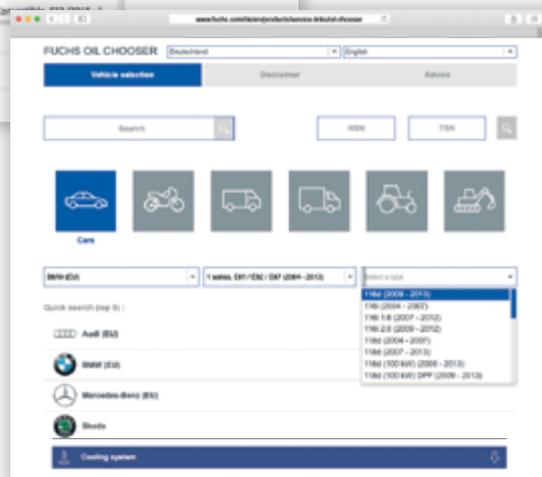
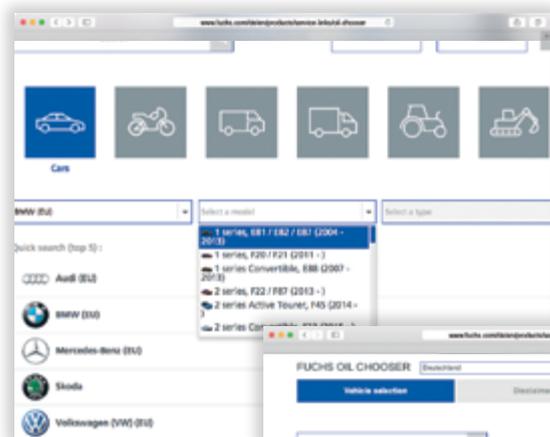
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(e.g. engine).

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