

Lubricants product program

1/2016



LUBRICANTS.
TECHNOLOGY.
PEOPLE.



LUBRICANTS. TECHNOLOGY. PEOPLE.



- _ World's largest independent lubricant specialist.
- _ Complete ranges of industrial and automotive lubricants.
- _ Leading first-fill competence for the German automotive industries.
- _ Plants, Mannheim and Kiel.



Numbers and facts

PLANT: MANNHEIM AND KIEL

HOLDING: FUCHS PETROLUB SE

HEADQUARTERS: Mannheim

TRUE LUBRICANT SPECIALIST: 100 % focus on lubricants

FULL LINE OF PRODUCTS:
More than 2,000 products and 6,000 product-pack combinations

CERTIFIED BY: DIN EN ISO 9001:2008,
ISO/TS 16949:2009, DIN EN ISO 14001:2004
BS OHSAS 18001:2007, KTA 1401

For more than 80 years, we have been concentrating all our activities and research efforts on the development of innovative lubricants. This specialization means that we are enjoying continuous growth – geographically, technically and in the number of application areas.

Today, FUCHS is a company that offers powerful lubricants and associated specialties worldwide in practically all areas of application and industries.

What makes our products more valuable: We develop lubricants on an application-specific basis and tailored to our partners' processes. Together, we look for the best lubricant for our customers. This type of collaboration is unique in its form, scope and intensity.

We call it a development partnership. This ability is based on one key feature: As a true lubricant specialist with our headquarters in Mannheim/Germany, we are the largest independent lubricant specialist, and this independence makes all the difference. We are open to new methods and visionary approaches – a prerequisite for innovations. And innovations are a FUCHS trademark.

OUR LUBRICANTS KEEP THE WORLD MOVING



Volkswagen Group Award 2014



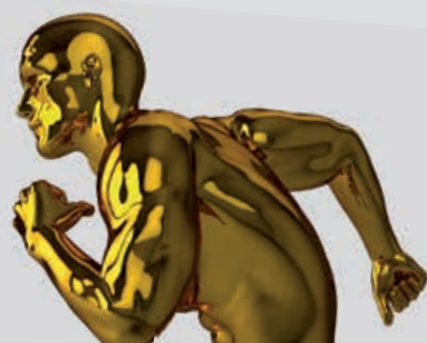
- _ Leading competence in automotive lubricants.
- _ Complete range of lubricants for all automotive applications.
- _ Groundbreaking XTL® technology.



Groundbreaking XTL® technology.

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.



XTL®
TECHNOLOGY



THE WORLD OF INDUSTRIAL LUBRICANTS



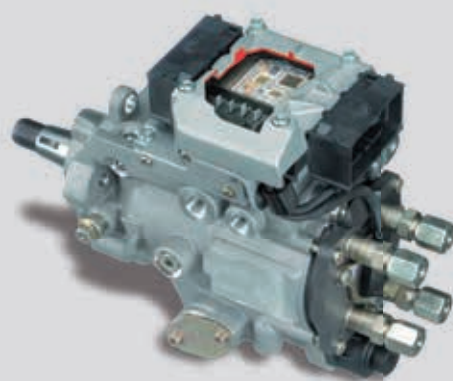
- _ Proximity: A highly-effective network of salespeople, application engineers and fully-manned offices.
- _ Competence: A clear focus as a lubricant specialist.
- _ Future: Our high-tech lubricants help conserve precious resources.



Real competence.

The majority of all manufacturing technologies only function as planned with specially designed lubricant solutions. Operators, machines, tools, components as well as storage and transport times all have to be considered. Apart from increased productivity, health and safety at work are decisive parameters.

FUCHS also makes an important contribution to higher productivity and safety at work in the field of machining. Our research development experts have created water-miscible products which allow successful and efficient machining in the skin-compatible pH-range. Furthermore, our new corrosion protection concepts offer individual system solutions.





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Product overview

Automotive Lubricants



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1_ENGINE OILS



TITAN

Engine Oils for Passenger Cars		Specifications	Approvals	FUCHS Recommendations
TITAN GT1 EVO SAE 0W-20 	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 ₂ emissions. Excellent cold starting behaviour, very fast oil circulation and outstanding performance reserves.	ACEA A1/B1	BMW LONGLIFE-14 FE+ JAGUAR LAND ROVER STJLR.51.5122	TOYOTA HONDA
TITAN GT1 PRO V SAE 0W-20  NEW	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 ₂ emissions. Excellent cold starting behaviour, very fast oil circulation and outstanding performance reserves.	ACEA A1/B1	VOLVO VCC RBS0-2AE	
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 API SL ILSAC GF-4
TITAN GT1 PRO FLEX SAE 5W-30 	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, 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 MB-APPROVAL 229.52 VW 502 00/ 505 00/ 505 01	FIAT 9.55535-S3 FORD M2C917-A GM-LL-A-025 GM-LL-B-025
TITAN GT1 PRO C-3 SAE 5W-30 	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	BMW LONGLIFE-04 MB-APPROVAL 229.51 PORSCHE C30 VW 504 00/ 507 00	FIAT 9.55535-S3 FORD M2C917-A
TITAN GT1 SAE 5W-40 	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/CF FORD M2C917-A	BMW LONGLIFE-04 MB-APPROVAL 226.5 MB-APPROVAL 229.31 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00 / 505 00 / 505 01	FIAT 9.55535-S2

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

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Engine Oils for Passenger Cars		Specifications	Approvals	FUCHS Recommendations
TITAN GT1 LL-12 FE SAE 0W-30  NEW	Premium Performance Engine Oil with new XTL®-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	
TITAN GT1 SAE 0W-30 NEW	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	FIAT 9.55535-DS1/GS1 IVECO 18-1811 CLASSE SC1 LV
TITAN GT1 PRO C-1 SAE 5W-30	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		JASO DL-1 FORD WSS-M2C934-B MAZDA
TITAN GT1 PRO C-2 SAE 5W-30	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 API SN/SM/CF	PSA B71 2290	FIAT 9.55535-S1 HONDA IVECO 18-1811 CLASSE SC1 MAZDA SUBARU SUZUKI TOYOTA
TITAN GT1 PRO C-4 SAE 5W-30	Premium Performance, extreme fuel-economy 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. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C4	MB-APPROVAL 226.51 RENAULT RN0720	
TITAN GT1 PRO B-Tec SAE 5W-30 	Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology for modern passenger cars and light commercial vehicles with or without extended service intervals. Specially for Mercedes-Diesel-Vehicles with exhaust after treatment and turbocharger. Optimum cold starting, lower oil consumption and minimized exhaust emissions.	ACEA C2/C3 API SN	MB-APPROVAL 229.51 MB-APPROVAL 229.52	
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 00/ 506 01	ACEA A5/B5 BMW LONGLIFE 01-FE

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

1_ENGINE OILS



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Engine Oils for Passenger Cars		Specifications	Approvals	FUCHS Recommendations
TITAN Supersyn LONGLIFE SAE 0W-30	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	BMW LONGLIFE-01 MAZDA
TITAN Supersyn LONGLIFE SAE 0W-40	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	AMG ASTON-MARTIN BMW LONGLIFE-01 FORD M2C937-A
TITAN Supersyn LONGLIFE SAE 5W-40	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/CF	BMW LONGLIFE-01 MB-APPROVAL 226.5 MB-APPROVAL 229.5 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00/ 505 00	GM-LL-B-025 HYUNDAI PSA B71 2296
TITAN Supersyn FE SAE 0W-30 NEW	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 RN 0700
TITAN Supersyn SAE 5W-30	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/CF	MB-APPROVAL 229.3 VW 502 00/505 00	BMW LONGLIFE-98 GM-LL-A-025 GM-LL-B-025 RENAULT RN0700/ RN0710
TITAN Supersyn F Eco-B SAE 5W-20	Ultra High Performance, extreme fuel-economy engine oil especially developed for Ford EcoBoost gasoline engines. Optimum cold starting and lower oil consumption.	ACEA A1/B1 API SN	FORD M2C948-B	CHRYSLER MS 6395 FORD M2C925-A FORD M2C925-B
TITAN Supersyn F Eco-DT SAE 5W-30	Ultra High Performance, extreme fuel-economy engine oil especially suitable for Ford DuraTorq-Diesel engines. Optimum cold starting and lower oil consumption.	ACEA A1/B1 ACEA A5/B5 API SL/CF FORD M2C913-C	FORD M2C913-D JAGUAR LAND ROVER STJLR.03.5003	CHRYSLER MS 6395 FORD M2C913-A FORD M2C913-B IVECO 18-1811 CLASSE S1/S2 JAGUAR M2C913-B RENAULT RN0700
TITAN Supersyn SAE 5W-40	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/CF	MB-APPROVAL 229.3 PORSCHE A40 RENAULT RN0700/ RN0710 VW 502 00/505 00	BMW LONGLIFE-98 FIAT 9.55535-H2/M2/N2/ Z2 GM-LL-A-025 GM-LL-B-025
TITAN Supersyn SAE 5W-50	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
TITAN Supersyn SAE 10W-60	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

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

1_ENGINE OILS



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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 SN/CF	MB-APPROVAL 229.1 MB-APPROVAL 229.3 PSA B71 2300 RENAULT RN0700/RN0710 VW 502 00/505 00	FIAT 9.55535-D2/G2
TITAN SYN SN SAE 0W-20 NEW	Super High Performance, fuel-economy engine oil for a variety of gasoline engines in passenger cars. Good cold starting behaviour and low oil consumption.	API SN ILSAC GF-5		
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.	API SL/CG-4	MB-APPROVAL 229.1	ACEA A3/B3/B4 FIAT 9.55535-D2/G2 VW 501 01/505 00

Racing Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN RACE SAE 5W-30	Premium Racing Engine Oil for Race cars with Gasoline or Diesel engines. Especially developed for professional use in racing applications. Combines optimum protection with power increase and reduced fuel consumption due to minimized frictional losses.			ACEA C3
TITAN RACE SAE 10W-60	Premium Racing Engine Oil for Race cars fuelled with Gasoline or Diesel engines. Especially developed for professional use in racing applications. Offers optimum protection due to minimized frictional losses and a stable oil film.			ACEA A3/B3 API SL/CF

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	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 / 505 00 / 505 01	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 SN	MB-APPROVAL 229.3 VW 502 00/505 00	FIAT 9.55535-G2 PSA B71 2300 RENAULT RN0700/ RN0710

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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 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 ALLISON C-4 CASE MS 1120 DAF MACK EO-L NH 330G SCANIA STEYR A-202 VOLVO VDS VW 501 01/505 00

1_ENGINE OILS

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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 turbocharger. Optimum cold starting properties and ageing stability for extreme 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/RLD-2 VOLVO VDS-3	ACEA E7 IVECO 18-1804 CLASSE TLS E6
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. Good cold starting properties and ageing stability for fuel-economy over the whole drain-interval.	ACEA E9/E7/E6 API CI-4 CAT ECF-1-a JASO DH-2	DEUTZ DQC IV-10 LA MACK EO-M PLUS MACK EO-N MAN M 3271-1 MAN M 3477 MB-APPROVAL 228.51 MB-APPROVAL 235.28 MTU DDC TYPE 3.1 RENAULT RXD/RGD/RLD-2 SCANIA LA VOITH-RETARDER „B” VOLVO VDS-3/CNG	CUMMINS CES 20077 DAF IVECO 18-1804 CLASSE TLS E9 MAN M 3277 CRT
TITAN CARGO SL SAE 5W-30	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	CUMMINS CES 20077 DEUTZ DQC IV-10 FORD WSS-M2C212-A1 MACK EO-N MAN M 3277 MB-APPROVAL 228.5 MTU DDC TYPE 3 RENAULT RXD/RLD-2 VOLVO VDS-3	DAF IVECO 18-1804 CLASSE TFE SCANIA LDF-2
TITAN CARGO LD3 SAE 10W-40	Ultra High Performance, fuel-economy engine oil for use in SCANIA Euro 6 vehicles. Specially developed for extended service intervals.	ACEA E7/E4 API CF	MAN M 3277 MB-APPROVAL 228.5 SCANIA LDF-3	
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 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	DAF IVECO 18-1804 SDFG OM-1901A

1_ENGINE OILS



TITAN

Engine Oils for Commercial Vehicles		Specifications	Approvals	FUCHS Recommendations
TITAN CARGO EU6 SAE 5W-30 NEW	Ultra High Performance, fuel-economy engine oil for use in many OEM Euro 6 engines fitted with modern exhaust after treatment devices. Excellent cold starting properties and low oil consumption.	ACEA E9/E7/E6 API CJ-4 CAT ECF-3 JASO DH-2	CUMMINS CES 20081 DEUTZ DQC IV-10 LA MACK EO-O PREMIUM PLUS MAN M 3677 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LA VOLVO VDS-4	DETROIT DIESEL 93K218 IVECO 18-1804 CLASSE TLS E6 MAN M 3271-1
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 93K218 DEUTZ DQC II-10 LA FAWDE Q/XC 3135-2007 MACK EO-O PREMIUM PLUS MAN M 3575 MB-APPROVAL 228.31 RENAULT RLD-3 VOLVO VDS-4	DETROIT DIESEL 93K214 93K215
TITAN CARGO SAE 10W-30	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 CJ-4 CAT ECF-1a/ ECF-2/ ECF-3	DEUTZ DQC III-10LA MACK EO-O PREMIUM PLUS MAN 3575 MB-APPROVAL 228.31 RENAULT RLD-3 VOLVO VDS-4	CUMMINS 20081 MTU DDC TYPE 2.1
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 API CJ-4/CI-4 PLUS/CI-4 CAT ECF-2/ECF-3 JASO DH-2	CUMMINS CES 20081 DEUTZ DQC III-10 LA DETROIT DIESEL 93K218 MACK EO-O PREMIUM PLUS MAN M 3275-1 MAN M 3575 MB-APPROVAL 228.31 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4	ALLISON C-4
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.	ACEA E7 API CI-4/SL GLOBAL DHD-1 CAT ECF-1a/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

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

1_ENGINE OILS



TITAN

Engine Oils for Commercial Vehicles		Specifications	Approvals	FUCHS Recommendations
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.	ACEA E7 API CH-4/SJ CAT ECF-1-a	CUMMINS CES 20076/7 DEUTZ DQC II-10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE 2 RENAULT RLD/RLD-2 VOLVO VDS-3	

Engine Oils for Commercial Vehicles with Gas Engines		Specifications	Approvals	FUCHS Recommendations
TITAN CARGO PRO GAS SAE 5W-30	Premium Performance, zinc-free, 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 E6	MAN M 3271-1 MAN M 3271-3 MAN M 3477 MB-APPROVAL 226.9 MB-APPROVAL 235.28 VOITH-RETARDER „B“	

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TITAN

Monograde Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN UNIVERSAL HD SAE 10W	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.	ACEA E2 API CF-4/SG	MAN 270 MB-APPROVAL 228.0 ZF TE-ML 03B	MIL-L-2104 D ALLISON C-4 CAT TO-2 ZF TE-ML 02C
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.	ACEA E2 API CF-4/SG	MAN 270 MB-APPROVAL 228.0 MB-APPROVAL 235.27 VOITH-RETARDER „A“	MIL-L-2104 D ALLISON C-4 CAT TO-2 ZF TE-ML 02C
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.	ACEA E2 API CF-4/SG	DEUTZ DQC I-02 MAN 270 MB-APPROVAL 228.2 MTU DDC TYPE 2 ZF TE-ML 04B	MIL-L-2104 D ALLISON C-4 CAT TO-2 ZF TE-ML 02C
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.	ACEA E2 API CF-4/SG	DEUTZ DQC I-02 MAN 270 MB-APPROVAL 228.2 MB-APPROVAL 235.12 MTU DDC TYPE 2 ZF TE-ML 04B	API CF-2 MIL-L-2104 D ALLISON C-4 CAT TO-2 ZF TE-ML 02C
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.	ACEA E2 API CF-4/SG	DEUTZ DQC I-02 MAN M 3275-2 MB-APPROVAL 228.0	MIL-L-2104 D ALLISON C-4 CAT TO-2 ZF TE-ML 02C
TITAN UNIVERSAL HD SAE 30 MTU	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 1	
TITAN UNIVERSAL HD SAE 30 ZF	High Performance Monograde Engine Oil especially for initial fill of ZF-transmissions.		ZF TE-ML 02H, 04B	ACEA E2 API CF MAN 270 MB 228.0 MTU DDC TYPE 1

1_ENGINE OILS



TITAN

Gas Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN GANYMET ULTRA	Premium Performance Engine Oil, zinc-free, for stationary gas engines.		2G TA-003 agenitor series 2,3 AGROGEN CAT CG132, CG170, CG260 GE JENBACHER TA 1000-1109 - A, CAT: series 2, 3, 4 (Version B), 6 (Version C, E) - B, CAT: series 2, 3 MAN M 3271-4 MTU Onsite Energy DK-BS-0001 (E, P, B) MTU Onsite Energy DK-BS-0002 (B) MWM TR 0199-99-02105 SEVA TRS-07 SPANNER RE ² TEDOM 61-0-0281.1/L, B, S	
TITAN GANYMET PLUS	Super High Performance Engine Oil, zinc-free, for stationary gas engines.		CAT CG132, CG170, CG260 DREYER & BOSSE GE JENBACHER TA 1000-1109 - B: series 2, 3 MTU Onsite Energy DK-BS-0001 (B) MWM TR 0199-99-02105 SEVA TRS-07	
TITAN GANYMET PLUS LA	„Low Ash“ Super High Performance Engine Oil, zinc-free, for stationary gas engines.		CAT CG132, CG170, CG260 DEUTZ TR 0199-99-01213 MWM TR 0199-99-02105 SEVA TRS-07 TEDOM 61-0-0281.1/G, P	CATERPILLAR CUMMINS WAUKESHA
TITAN GANYMET	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 DK-BS-0001 (B,K) SEVA TRS-07	

1_ENGINE OILS



TITAN

Gas Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN GANYMET LA	„Low Ash“ High Performance Engine Oil for stationary gas engines.		CAT CG132, CG170, CG260 DEUTZ TR 0199-99-01213 GE JENBACHER TA 1000-1109 - A, CAT: series 2, 3, 4 (Version B), 6 (Version C, E) MAN M 3271-2 MTU Onsite Energy DK-BS-0001 (E, P, K) MWM TR 0199-99-02105 SEVA TRS-07	CATERPILLAR CUMMINS WAUKESHA

1_ENGINE OILS



TITAN

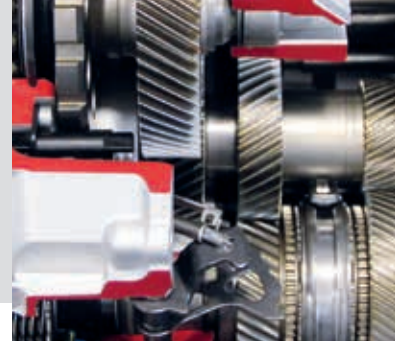
4-Stroke MARINE Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN MARINE FC-W SAE 10W-30	Super High Performance Engine Oil for marine leisure 4-stroke gasoline engines, in accordance with the latest requirements of NMMA.		NMMA FC-W	BOMBARDIER EVINRUDE, HONDA JOHNSON MERCURY SEADOO SUZUKI YAMAHA

2-Stroke MARINE Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN MARINE TC-W 3	Ultra High Performance Engine Oil 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

Railroad Engine Oils		Specifications	Approvals	FUCHS Recommendations
TITAN RAILGEN 13 SAE 40	High Performance Rail Locomotive Monograde Engine Oil according to API CF utilizing zinc and chlorine free additive technology.	API CD/CF	GE Generation 4LL GM - EMD GENERATION 5	LMOA GENERATION 5 CATERPILLAR 3600

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

2_TRANSMISSION FLUIDS

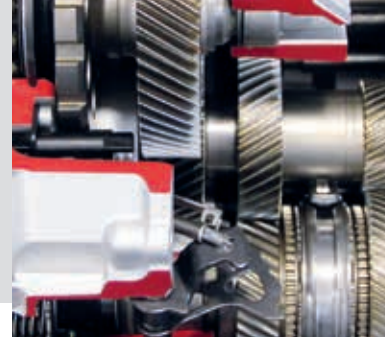


TITAN

Gear Oils for Passenger Cars		Spezifikation	Approvals	FUCHS Recommendations
TITAN SINTOFLUID FE SAE 75W	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 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)
TITAN SINTOFLUID SAE 75W-80	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 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 Performance 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 Performance Axle Gear Oil for passenger cars, also for 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 BMW VW TL 521 45-Y (G 052 145 A2)
TITAN SINTOPOID LS SAE 75W-90	Premium Performance fully-synthetic multifunctional gear oil. Suitable for axles and transfer gearboxes 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 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 M2C192-A GM 12346140 JOHN DEERE JDM J11G SCANIA STO 1:0

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

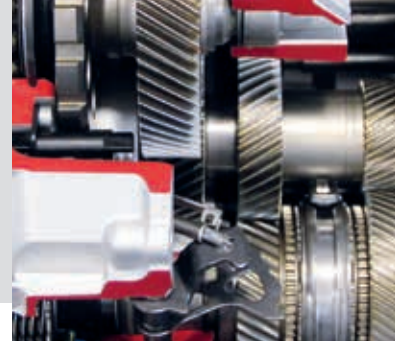
2_TRANSMISSION FLUIDS



TITAN

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 341 TYPE E2 MAN 341 TYPE Z2 MAN 342 TYPE M2 MB-APPROVAL 235.0 ZF TE-ML 02B, 05A, 12L, 12M, 16B, 17B, 19B, 21A	CASE MS 1316 FORD M2C197-A JOHN DEERE JDM J11E MAN M 3343 TYPE M NH 520A SDFG OP 1705 STEYR B-101 VOLVO 97310 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 J11E OPEL 19 42 386 RENAULT VI VOLVO 97310 ZF TE-ML 08
TITAN SUPERGEAR SAE 80W-90	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	MIL-L-2105 D VOLVO 97310
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, 21A	MIL-L-2105 D VOLVO 97310
TITAN GEAR LS SAE 90	High Performance LS (Limited Slip) hypoid gear oil for axles 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 J11F LIEBHERR NH 520B VOLVO 97310
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 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		EATON FULLER MB 235.1 MAN 341 TYPE E1, Z1 ZF TE-ML 02A, 16A, 17A, 19A
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 16C, 17B, 19B, 21A	FORD M2C9102-A JOHN DEERE JDM J11E OPEL 19 42 387 VOLVO 97310 VW TL 727 ZF TE-ML 07, 08

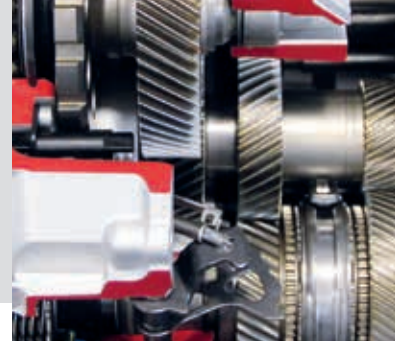
2_TRANSMISSION FLUIDS



TITAN

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	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MB 235.8 VOLVO 97312 ZF TE-ML 05B, 07, 08, 12B, 16F, 17B
TITAN CYTRAC RR SAE 75W-90	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 TURBO 132.00374401 (3.325-340) VOITH TURBO 132.00374402 (3.325-342) ZF TE-ML 05B, 12L, 12N, 16F, 17B, 19C, 21B	Gmeinder Getriebebau railway applications
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 ULTRA SYNTH SAE 75W-80	Premium Performance Gear Oil for extended drain intervals 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	DAF IVECO MAN RENAULT TRUCKS
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 intarders or supplementary retarders.	API GL-4	EATON MAN 341 TYPE E3	DAF MAN 341 TYPE Z3 VOLVO 97305 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, 12L, 12N, 16F, 17B, 19C, 21B	DAF 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 07

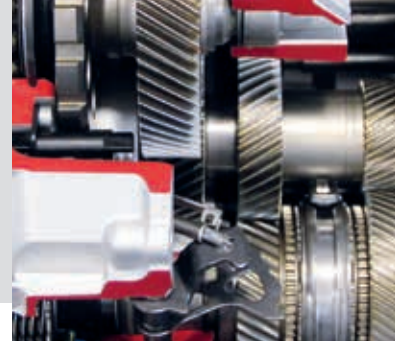
2_TRANSMISSION FLUIDS



TITAN

Gear Oils for Commercial Vehicles		Specifications	Approvals	FUCHS Recommendations
TITAN CYTRAC 235.8 SAE 75W-90 <i>NEW</i>	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 especially in DAIMLER commercial vehicle axle drives.	API GL-4/GL-5	MB-APPROVAL 235.8	
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, 12L, 12M, 16B, 17B, 19B, 21A	MIL-PRF-2105 E ARVIN MERITOR AXLES MACK GO-J JOHN DEERE JDM J11E SCANIA STO 1:0 ZF TE-ML 07A

2_TRANSMISSION FLUIDS



TITAN

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 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
TITAN UTTO PLUS	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, 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
TITAN UTTO ZF	Super High Performance Gear Oil for ZF axles with limited-slip differentials. Recommended for construction machinery and material-handling vehicles axles.		ZF TE-ML 05F, 06K, 17E, 21F	KOMATSU-HANOMAG VOLVO WB 101 ZF TE-ML 03E
TITAN UTTO TO-4 SAE 10W	Super High Performance multifunctional lubricant for hydraulics in construction machinery.	API GL-4 CAT TO-4 KOMATSU KES 07.868.1		ALLISON C-4 DANA EATON
TITAN UTTO TO-4 SAE 30	Super High Performance multifunctional transmission lubricant for construction machinery.	API GL-4 CAT TO-4 KOMATSU KES 07.868.1	ZF TE-ML 03C, 07F	ALLISON C-4 ALLISON TES-439 DANA EATON
TITAN UTTO TO-4 SAE 40	Super High Performance multifunctional transmission lubricant for construction machinery.	API GL-4 CAT TO-4 KOMATSU KES 07.868.1		ALLISON C-4 ALLISON TES-439 DANA EATON
TITAN UTTO TO-4 SAE 50	Super High Performance multifunctional lubricant for final drives in construction machinery.	API GL-4 CAT TO-4 KOMATSU KES 07.868.1		DANA EATON
TITAN UTTO TO-4 SAE 60	Super High Performance multifunctional lubricant for final drives in construction machinery.	API GL-4 CAT TO-4		

2_TRANSMISSION FLUIDS



TITAN

Double Clutch Transmission Fluid (DCTF)		Specifications	Approvals	FUCHS Recommendations
TITAN DCTF 52529 XTL TECHNOLOGY	Premium Performance DCTF with new XTL®-Technology. Specially developed for the Audi DL382 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.		VW TL 52 529-C	
TITAN DCTF	Premium Performance DCTF, specially developed for modern Double Clutch Transmission with wet clutch. The wide performance profile offers the use in diverse Double Clutch Transmissions of different manufacturers. Provide optimum wear protection and excellent shifting properties even under hard conditions over the whole lifetime.			BMW Drivelogic 7-speed CHRYSLER Powershift 6-speed FORD Powershift 6-speed MITSUBISHI TC-SST 6-speed PEUGEOT DCS 6-speed CITROEN DCS 6-speed RENAULT EDC 6-speed VOLVO Powershift 6-speed VW (AUDI, SEAT, SKODA) 6-speed FWD

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. Product dyeing: blue.		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. Product dyeing: red.		DEXRON VI VOITH H55.6335.xx ZF TE-ML 09	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. Product dyeing: red.		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

2_TRANSMISSION FLUIDS



TITAN

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. Product dyeing: red.	JASO M315 TYPE 1A		DEXRON III AISIN WARNER/AW-1 BMW MINI 83 22 0 402 413 BMW MINI 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 -II/ATF -III JATCO 3100 PL085/FWD (N402)/JF506E (K17) JWS 3309/TYPET T-IV KIA SP-IV MAZDA ATF D-III/ATF M-3 MITSUBISHI SP-II/-III NISSAN MATIC C/D/J/S SAAB 3309 SUBARU ATF OIL/ATF OIL SPECIAL/ATF HP SUZUKI ATF 3309/3317 TOYOTA TYPE T/T-II/T-III/T-IV TOYOTA TYPE D-2/WS VW G 052 990/055 025
TITAN ATF 4134	Ultra High Performance ATF, specially developed to optimize shifting performance of Mercedes-Benz automatic transmissions. Product dyeing: red.		MB-APPROVAL 236.14 SSANG YONG (MB-automatic transmissions)	
TITAN ATF 4000	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 V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 MB-APPROVAL 236.9 VOITH H55.6335.xx VOLVO 97341 ZF TE-ML 04D, 14A	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 / 767 VW TL 521 62 (G 052 162) ZF TE-ML 02F, 03D, 09, 11B, 17C

2_TRANSMISSION FLUIDS



TITAN

Automatic Transmission Fluids (ATF)		Specifications	Approvals	FUCHS Recommendations
TITAN ATF CVT	Ultra High Performance ATF specially designed for use in many CVT-gearboxes using push-belts or transmission chains made of steel. Product dyeing: none.		MB-APPROVAL 236.20 FORD WSS-M2C928-A	BMW 83 22 0 136 376 BMW 83 22 0 429 154 CHRYSLER CVTF+4 DAIHATSU AMIX CVTF-DC DODGE/JEEP NS-2/ CVTF+4 FORD WSS-M2C933-A GM DEX-CVT HONDA HCF-2 MITSUBISHI CVTF-J1 NISSAN NS-1/NS-2/NS-3 SUBARU Lineartronic CVTF/ECVT/iCVT SUZUKI TC/NS-2/CVT Green 1 TOYOTA TC/CVT FE VW TL 521 80 (G 052 180) VW TL 525 16 (G 052 516)
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. Product dyeing: red.		MB-APPROVAL 236.12 VW TL 525 33 (G 052 533)	DEXRON III BMW 83 22 9 407 765 FORD M2C195-A FORD M2C202-B FORD M2C922-A1 SSANG YONG
TITAN ATF 3000	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 V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 VOITH H55.6335.xx ZF TE-ML 04D, 14A	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 M2C138-CJ FORD M2C166-H FORD M2C9010-A OPEL 19 40 700 / 707 RENK-DOROMAT VOLVO; VW ZF TE-ML 02F, 03D, 09, 11A, 17C
TITAN ATF 10	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

3_HYDRAULIC FLUIDS



TITAN

Central Hydraulic / Power Steering Fluids		Specifications	Approvals	FUCHS Recommendations
TITAN ZH 4300 B	Premium Performance Central Hydraulic Oil formulated with fully-synthetic base oils. Product dyeing: green.		MAN M 3289	BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 FENDT X 902 011 622 FORD M2C204-A OPEL 19 40 715 / -766 PORSCHE 000 043 203 33 PSA S712710 VOLVO 1161529 VW TL 521 46 (G 002 000)
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. Product dyeing: none.		MB-APPROVAL 344.0	
TITAN ZH 3044	Ultra High Performance power steering and central hydraulic oil for automotive applications. Product dyeing: green.		CHRYSLER MS-11655b VW TL 52519-B	AUDI/VW G 004 000 GMW 16613 LAND ROVER LR003401 OPEL 19 40 715 PORSCHE 000 043 206 56 SAAB 93160548 VOLVO 30741424
TITAN ZH LHM PLUS	Ultra High Performance Central Hydraulic Oil specially designed for the use in Citroën and Peugeot vehicles. Product dyeing: green.			ISO 7308 BMW 81 22 9 407 549 CASE FIAT 9.55597 IVECO 18-1823 MASSEY FERGUSON NH 610A PSA B71 2710 SDFG OF1611S
TITAN PSF	Super High Performance Power Steering Fluid approved by Mercedes-Benz for passenger cars and commercial vehicles. Product dyeing: none.		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 51 524-3 HV according to ISO 11158	DENISON HF 0	CASE MS 1216

4_LUBRICANTS FOR AGRICULTURAL MACHINERY



AGRIFARM

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-10	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 J20C NEW HOLLAND 82009201/2/3 NH 030C, 330G, 330H, 410B, 420A, 526C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 ZF TE-ML 06A, 06B, 06C, 06F, 06L, 07B * without HOLMER
AGRIFARM STOU MC SAE 10W-30	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 CG-4 API GL-4 SAE J300: SAE 10W-30	DEUTZ DQC I-02 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 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

4_LUBRICANTS FOR AGRICULTURAL MACHINERY



AGRIFARM

AGRIFARM STOU Oils		Specifications	Approvals	FUCHS Recommendations
AGRIFARM STOU MC SAE 10W-40	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 CG-4 API GL-4 SAE J300: SAE 10W-40	DEUTZ DQC I-02 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 J20C NEW HOLLAND 82009201/2/3 NH 030C, 330G, 410B, 420A, 526C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 SAE J306: SAE 75W-90 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 J20C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 NEW HOLLAND 82009201/2/3 NH 420A 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 J20C MASSEY FERGUSON CMS M 1145, 1144, 1143, 1139, 1135 NEW HOLLAND 82009201/2/3 NH 420A SDFG OU 1391, OT 1891 STEYR D-401 ZF TE-ML 06A, 06B, 06C, 07B

4_LUBRICANTS FOR AGRICULTURAL MACHINERY



AGRIFARM

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.	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
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.	ACEA E7 API CI-4 GLOBAL DHD-1 CAT ECF-1a/ECF-2	DEUTZ DQC III	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 330H RENAULT RLD/RLD-2 STEYR A-201 VOLVO VDS-3

4_LUBRICANTS FOR AGRICULTURAL MACHINERY



AGRIFARM

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.	API GL-4 SAE J300: 10W-30	ZF TE-ML 03E, 05F, 17E, 21F	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 J306: 75W-80 SDFG OT 1891 A VALTRA G02-08 ZF TE-ML 06K
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.	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)

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

4_LUBRICANTS FOR AGRICULTURAL MACHINERY



AGRIFARM

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 520A 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 520B SDFG OP 1705LS VOLVO 97310 ZF TE-ML 05C, 12C, 16E

AGRIFARM Chain Saw Oil		Specifications	Approvals	FUCHS 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

5_MOTORCYCLE LUBRICANTS



Silkolene

RACE – For professional racers and everybody who rides at the limit		Specifications	Approvals	FUCHS Recommendations
SILKOLENE PRO R SAE 0W-20	Electrosyntec® -Technology Fully-synthetic four-stroke racing engine oil based on the latest Electrosyntec-Technology. Special racing formulation. Only for professional competition applications.			
SILKOLENE PRO 4 PLUS SAE 5W-40 SAE 10W-50	Electrosyntec® -Technology Four-stroke racing engine oil based on synthetic esters. Specially formulated for use in Superbikes, Supersports and production racers.	API SG/SH/SJ/SL	JASO MA2	
SILKOLENE PRO 4 SAE 10W-40 XP SAE 15W-50 XP SAE 10W-60 XP	Premium Performance Engine Oil	API SM/SN	JASO MA2	
SILKOLENE PRO KR2	Two-stroke race cart oil formulated with synthetic base oils and castor oil. Use manufacturer's recommended mixing ratios. Not miscible with other lubricants.		CIK-FIA	
SILKOLENE PRO 2	Electrosyntec® -Technology Fully-synthetic two-stroke racing engine oil. Specially formulated for extreme conditions. Not miscible with conventional two-stroke oils. Only suitable for Premix systems.		CIK-FIA	
SILKOLENE COMP 2 PLUS	Electrosyntec® -Technology Fully-synthetic two-stroke racing engine oil. Perfect for GP racing engines. Suitable for Premix and Autolube systems.	API TC JASO FC ISO-L-EGD		
SILKOLENE RSF 2.5/5/7.5/10/15	Fully-synthetic shock-absorber fluids and special fork oils with a high viscosity index. Specially developed for racing.			
SILKOLENE PRO CHAIN	Fully-synthetic racing chain lube spray for high-performance road, racing and motocross applications. For all chains with or without O-rings.			

5_ MOTORCYCLE LUBRICANTS



Silkolene

RIDE – For the tourer and streetrider		Specifications	Approvals	FUCHS Recommendations
SILKOLENE COMP 4 SAE 10W-30 XP SAE 10W-40 XP SAE 15W-50 XP SAE 20W-50 XP	Ultra High Performance Engine Oil	API SL	JASO MA2	
SILKOLENE SUPER 4 SAE 15W-40	Four-stroke engine oil formulated with selected base oils. Specially for use in BMW motorcycles with and without wet clutches.	API SF/SG		BMW Motorrad JASO MA
SILKOLENE SUPER 4 SAE 10W-40	MC-synthesis four-stroke engine oil. High-quality standard product offering excellent protection.	API SF/SG/SH	JASO MA2	
SILKOLENE SUPER 4 SAE 20W-50	MC-synthesis four-stroke engine oil. High-quality standard product offering excellent protection.	API SF/SG	JASO MA2	
SILKOLENE V-TWIN SAE 20W-50	Mineral four-stroke engine oil. Specially developed for Harley-Davidson and European/Japanese Metric V-Twins.	API CF/SG/SH/SJ	JASO MA2	
SILKOLENE COMP 2	Electrosyntec® -Technology Synthetic two-stroke engine oil. Reliable protection against seizures, ring sticking and coking. Suitable for Premix and Autolube systems.	API TC JASO FC/FD ISO-L-EGD		

QUADS ATV – For professionals and fun bikers		Specifications	Approvals	FUCHS Recommendations
SILKOLENE QUAD ATV SAE 5W-40	Fully-synthetic four-stroke engine oil for highly-stressed Quads and ATVs. Offers first-class quality and reliable protection against wear.	API SG/SH/SJ/SL	JASO MA2	
SILKOLENE QUAD ATV SAE 10W-40	MC-synthesis four-stroke engine oil specially developed for Quads and ATVs. Standard, high-quality product for reliable protection.	API SG/SH/SJ	JASO MA2	

SCOOT – The name says it all		Specifications	Approvals	FUCHS Recommendations
SILKOLENE SCOOT 4 SAE 10W-40	Electrosyntec® -Technology Synthetic four-stroke engine oil for scooters and mopeds. Perfect for high-tech, four-stroke scooters.	API SG/SH/SJ	JASO MA2	
SILKOLENE SCOOT SPORT 2	Electrosyntec® -Technology Synthetic two-stroke engine oil for highly-stressed scooter engines. Suitable for Premix and Autolube systems.	API TC JASO FC/FD ISO-L-EGD		
SILKOLENE SCOOT 2	MC-synthesis two-stroke engine oil for scooters and mopeds. Suitable for Premix and Autolube systems.	API TC JASO FC		

5_MOTORCYCLE LUBRICANTS



Silkolene

MAINTAIN – Maintenance and protection for your bike		Specifications	Approvals	FUCHS Recommendations
SILKOLENE PRO SRG 75	Fully-synthetic, ester-based racing gear oil. Excellent protection against wear and easy shifting even at extreme temperatures.			
SILKOLENE COMP GEAR OIL SAE 80W-90	Synthetic, High Performance, ester-based gear oil. Particularly recommended when the gearbox contains aluminium components.	API GL-4/GL-3		
SILKOLENE BOA SAE 80W-90	High Performance gear oil for shaft drives and other hypoid, crown wheel and pinion applications.	API GL-5/GL-4		
SILKOLENE MAG COOL	Ready to use, powerful engine coolant for all year round use. Anti-cavitation performance exceeds that of conventional ethylene glycol based anti-freezes, providing the user with superior protection against engine and coolant pump damage due to this phenomenon.			
SILKOLENE SF 20 / 30 NEW	Fork oils for all types of motorcycle forks. Ensures smooth operation, optimum protection against wear and perfect road-holding.			
SILKOLENE FOAM FILTER OIL	Special product for the oiling of freshly-washed foam filters. Also available as a spray.			
SILKOLENE FOAM FILTER CLEANER	Special water-soluble cleaner used to wash foam filter elements.			
SILKOLENE TITANIUM DRI GEL	Advanced chain lubricating gel: Effectively resists fling-off and appears whitish when applied.			
SILKOLENE CHAIN LUBE	Synthetic chain lube spray for optimum wear and rust protection. For all motorcycle chains with or without O-rings.			
SILKOLENE BRAKE & CHAIN CLEANER	Highly effective cleaner for brakes and drive chains. Effectively removes caked residue.			
SILKOLENE CARB CLEANER	Carburettor cleaner spray.			
SILKOLENE PRO PREP	Special conditioning spray for plastics and painted surfaces restores the „brand-new“ look.			
SILKOLENE PRO WASH	Rapidly biodegradable, highly-effective motorcycle cleaner for all surfaces including aluminium. Available in 1-litre pump-bottles or in 25 litre drums.			
SILKOLENE ALL-IN-ONE	Multipurpose maintenance spray with a multitude of uses: SILKOLENE ALL-IN-ONE can be used to dry out damp ignitions or free rusted fasteners. It has excellent dewatering properties, repels moisture, penetrates corroded threads, lubricates and even offers protection against corrosion.			

5_MOTORCYCLE LUBRICANTS



Silkolene

MAINTAIN – Maintenance and protection for your bike		Specifications	Approvals	FUCHS Recommendations
SILKOLENE SILKOPEN	A suspension of very fine lubricating graphite in a thin searching mineral oil carrier. SILKOLENE SILKOPEN penetrates corroded or seized threads, lubricates them at the same time to ease dismantling by lowering the torque required.			
SILKOLENE PRO BOOST	Octane improver to combat pre-ignition and improve acceleration.			

6_SERVICE PRODUCTS



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 J 1703/J 1704		FORD M6C62-A FORD M6C9103-A NH 800A OPEL 19 42 421

Antifreeze		Specifications	Approvals	FUCHS Recommendations
MAINTAIN FRICOFIN LL	Premium Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine, phosphate and silicates. Product dyeing: orange	ASTM D 3306 TYPE I BS 6580 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 DAF 74002 DEUTZ DQC CB-14 MAN 324 TYPE SNF MB-APPROVAL 325.3 MWM TR 0199-99-2091	AFNOR NFR 15-601 TYPE I ASTM D 4985 SAE J1034 CHRYSLER MS 12106 CNH MAT 3624 CUMMINS (ISBe engines at DAF and Leyland) DETROIT DIESEL 93K217 FIAT 9.55523 GM 6277M HYUNDAI MS 591-08 JASO M325 JIS K2234 KOMATSU AF-NAC (ready mix) LIEBHERR MD 1-36-130 PSA B 71 5110 RENAULT TYPE D TOYOTA TSK 2601G-8A VW TL 774 D/F (different colour) VOLVO 128 6083/002 (=VOLVO TRUCKS, VOLVO CE, from MY 2005)
MAINTAIN FRICOFIN V	Ultra High Performance Coolant Additive based on Monoethyleneglycol. Free of nitrites, amines and phosphates. Product dyeing: pink-violet.	ASTM D 3306 TYPE I BS 6580	VW TL 774 J (G13)	
MAINTAIN FRICOFIN DP	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 ASTM D 3306 TYPE I ASTM D 4985 BS 6580 SAE J814 CUMMINS CES 14603	MAN 324 TYPE Si-OAT MB-APPROVAL 325.5 MB-APPROVAL 325.6	SCANIA TB 1451 VW TL 774-G
MAINTAIN FRICOFIN DP -35 NEW	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 SAE J814 CUMMINS CES 14603	MB-APPROVAL 326.5 MB-APPROVAL 326.6	MAN 324 TYPE Si-OAT SCANIA TB 1451 VW TL 774-G

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

6_SERVICE PRODUCTS



MAINTAIN

Antifreeze		Specifications	Approvals	FUCHS Recommendations
MAINTAIN FRICOFIN HDD	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 2008:2004 TYPE A BS 6580 SAE J814 CHRYSLER MS 7170 CHRYSLER MS 9769 DETROIT DIESEL 7SE298 FORD ESE-M97B44-A FORD ESE-M97B18-C FORD WSS M97B51-A1 GM 1825M & GM 1899M JIS K2234 MACK 014GS17004	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
MAINTAIN FRICOFIN	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 ASTM D 3306 TYPE I ASTM D 4985 BS 6580:1992 SAE J814 SAE J1034	BMW GS 94000 (BMW N 600 69.0) DEUTZ DQC CA-14 JENBACHER TA 1000-0201 MAN 324 TYPE NF MAN 324 TYPE NF PRITARDER MB-APPROVAL 325.0 MTU MTL 5048 MWM TR 0199-99-2091 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 (G 11)
MAINTAIN FRICOFIN -35	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: green.	AFNOR NF R 15-601 TYPE 3 ASTM D 3306 TYPE III ASTM D 4985 BS 6580:1992 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 MTL5048 MWM TR 0199-99-2091 OPEL/GM B 040 0240 PN-C 40007:2000 VOITH TURBO 172.00225010 VW TL 774-C (G 11)
MAINTAIN FRICOFIN S	High Performance Coolant Additive based on monoethylene glycol. Free from nitrite, amine and phosphate. Product dyeing: light green.	ASTM D 3306 TYPE I BS 6580:1992		

Performance upgrades in Specifications, Approvals and FUCHS Recommendations are highlighted in bold.

6_SERVICE PRODUCTS



MAINTAIN

Washer Fluid Additive		Specifications	Approvals	FUCHS Recommendations
MAINTAIN CLEAN SCREEN	All season windscreen washer fluid additive with cleaning and antifreeze properties. Suitable for use with any type of washer nozzle and polycarbonate screens.			

Diesel Fuel Additives		Specifications	Approvals	FUCHS Recommendations
MAINTAIN DIESEL EFFECT	Super High Performance Fuel Additive improving diesel fuel properties for singular as well as constant treatment.			
MAINTAIN GASOLINE PLUS	Super High Performance Fuel Additive designed to clean the entire fuel system of gasoline engines. Recommended for constant use.			
MAINTAIN WINTERFIT	Super High Performance Diesel Fuel and Heating Oil additive to prevent waxing and plugging at low temperatures.			

7_SPECIALTIES



Specialties – Oil Binder		Specifications	Approvals	FUCHS Recommendations
MAINTAIN ABSORPEX	Oil Binder Type III R, chemical binder	Reported by Hygiene Institut Gelsenkirchen MPL		

Specialties - Corrosion Protection Aerosols		Specifications	Approvals	FUCHS Recommendations
ANTICORIT DFG SPRAY	Spray and penetrating oil with MoS ₂ solid lubricants. Available as an aerosol spray.			
ANTICORIT 5F SPRAY	Surface protection spray. Available as an aerosol spray.			
ANTICORIT OHK SPRAY	Contact and engine protection spray. Excellent rust protection and good lubricants properties. Can be used as a contact spray. Available as an aerosol spray.			
ANTICORIT BW 366 SPRAY	Corrosion preventive wax spray with effective barrier function. Underfloor and cavity protection.			
ANTICORIT SYNTH SPRAY	Fully-synthetic corrosion dissolving spray with excellent penetrating effect.			
ANTICORIT CPX SPRAY	High Performance corrosion preventive for cavity protection and severe conditions. Also available as an aerosol spray.			
ANTICORIT BW 10 SPRAY	Corrosion preventive wax for protection of moulds, outdoor vehicles, press tools during long term downtimes.			

Specialties – Fitting Products		Specifications	Approvals	FUCHS Recommendations
RENOLIT SI 300 M	Low temperature silicon grease for plastic lubrication and mounting aid of o-rings and sealings.	MSI 2 P-70	VW TL 767 X DBL 6812.10	
RENOLIT CHUCK PASTE	White special paste for the lubrication of threads, screws and chucks, avoids fretting corrosion, NLGI 2-3.			
RENOLIT PASTE PW	Special paste based on calcium sulphonate complex soap and mineral oil as assembly paste to avoid fretting corrosion.			

Specialties – Cleaner		Specifications	Approvals	FUCHS Recommendations
FUCHS MULTICLEAN	Well-proven cleaner for multi purpose application in industries and workshops. Rapidly dislodges oil residues.			

7_SPECIALTIES



Specialities – Grease Aerosols		Specifications	Approvals	FUCHS Recommendations
RENOLIT UNILOAD	Based on a Heavy Duty Grease with solid lubricants for the lubrication of highly loaded, low speed plain and roller bearings and open gears.			
RENOLIT UNIMAX LZ	Based on Multi-purpose tacky grease for the lubrication of plain and roller bearings, chains, passenger cars and commercial vehicles, construction industry, industrial and agricultural machines			
PLANTO MULTISPRAY S	Based on a rapidly biodegradable EP Multipurpose Grease for the lubrication of plain and roller bearings of construction, agriculture and forestry equipment.			
DUOTAC ZAHNRADSPRAY	Based on Bitumen-free special lubricant with graphite, lubrication of open gears, gear rims, racks, chains, outer lubrication of wire ropes in crane installations, excavators, agricultural machines, rack and pinion railways; to be applied in cold condition, for open toothed-wheel gearing, solid lubricating film up to +300°C			
RENAX GLEITSPRAY	Fitting product. Spray grease for hinges, joints and diverse movable small lubrication applications.			

8 GREASES



RENOLIT

Greases		Specifications	Approvals	FUCHS Recommendations
RENOLIT MP	Standard, multipurpose EP grease. Suitable for low temperatures. -40 °C to +120 °C.	KP 2 K-40 ISO-L-X-DCEB 2	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 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 15883	
RENOLIT LZR 2 H	Highly adhesive, Premium Performance-quality, 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	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 Commercial central lubrication system of LINCOLN and SKF Lubrication Solutions (for trucks)	
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	MAN 285 Li-PF 2	
RENOLIT RENOLIT LX-OTP 2	Fully synthetic special grease based on lithium complex thickener, containing solid lubricants, especially for the lubrication of knuckle pins, -40 °C to +160 °C.		MAN TUC 8080/00	
RENOLIT CA-LZ Also available in spray cans as RENOLIT UNIMAX LZ.	Long-term, tacky grease based on a special calcium soap with excellent water resistance, for the lubrication of construction and agricultural machinery, -30°C to +120°C, NLGI 2.	KP 2 K-30 ISO-L-X-CCHB 2		
RENOLIT CX-HT 2 Also available for use in FUCHS system grease guns. Also in NLGI grade 0 available.	Heavy duty grease based on calcium sulphonate complex soap 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.			

8_GREASES




RENOLIT

Greases		Specifications	Approvals	FUCHS Recommendations
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 2 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 DB-Kenndatenblatt 873 499 ZF TE-ML 12 VW TL 52147X INTERPRECISE	

9_RAPIDLY BIODEGRADABLE LUBRICANTS

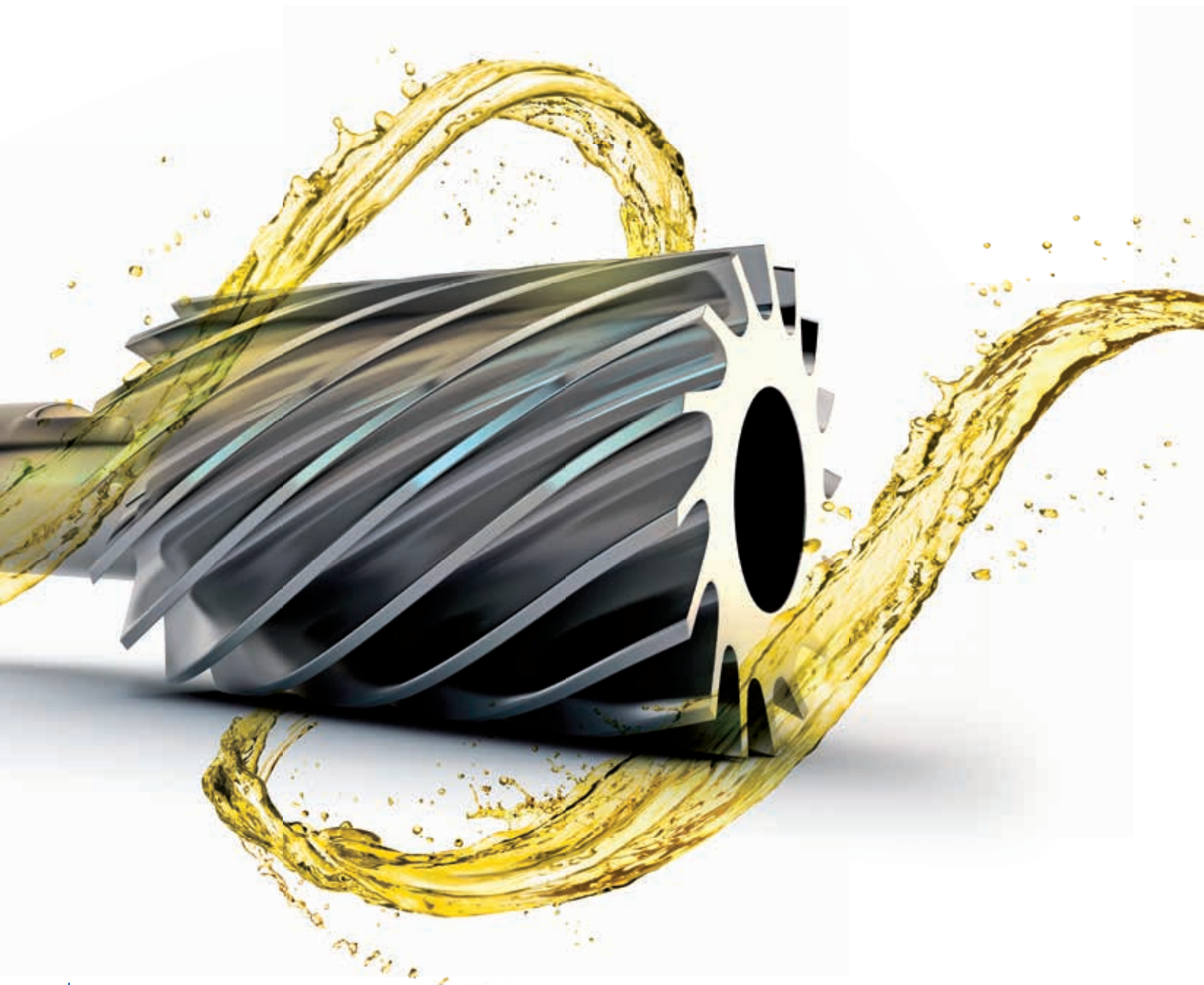


PLANTO

PLANTO Lubricants		Specifications	Approvals	FUCHS Recommendations
PLANTO MOT SAE 5W-40		Super High Performance SAE 5W-40 Diesel Engine Oil. Rapidly biodegradable and specially recommended for use with alternative Diesel fuels.		ACEA E3/B3 API CG-4 KUBOTA SISU ZETOR
PLANTOSYN 3268		Environmentally friendly, HVI multigrade hydraulic oil with high temperature stability based on fully-saturated, synthetic esters (HEES), rapidly biodegradable according to OECD 301 B >60%. Awarded the European Eco Label.	ISO 15380: HEES DIN 51524-3: HVLP DIN 51519: ISO VG 46	FENDT O&K BAUMASCHINEN ECO-Label BOSCH REXROTH AG CAT BF-1 KRAMER ALLRAD PALFINGER SAUER DANFOSS TIMBERJACK VALMET / KOMATSU FOREST PONSSE
PLANTOSYN 3268 ECO		Environmentally friendly, HVI multigrade hydraulic fluid based on partly saturated synthetic esters (HEES), universally applicable, rapidly biodegradable according to OECD 301 B >60%, awarded with the European Eco Label.	DIN 51519: ISO VG 46 ISO 3448: ISO VG 46 DIN 51524-2: HLP DIN 51524-3: HVLP ISO 15380: HEES FENDT: KDM 28/2006	FENDT KDM 28/2006 ECO-Label
PLANTOHYD 40 N		Environmentally compatible hydraulic and lubricating oil based on natural raw materials with additives to improve oxidation stability and ageing stability. Type HETG acc. to ISO 15380, for mobile and stationary hydraulic equipment. Rapidly biodegradable acc. to OECD 301 B >60%, awarded with the European Eco Label.	ISO 15380: HETG	ECO-Label
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
PLANTOLUBE KS 32-N		Biodegradable rapeseed oil-based tacky lubricant for chains and other total-loss applications.		
PLANTO TAC 68		Biodegradable Super High Performance Chain Saw Oil based on rapeseed. For professional use in chain saws. Excellent lubricity and good ageing stability. Awarded the European Eco Label.		KWF ECO-Label DOLMAR HUSQVARNA SOLO STIHL
PLANTOGEL ECO 2 N		Environmentally compatible, rapidly biodegradable total loss lubricating grease based on calcium soap and rape seed oil. Awarded with the EU-Ecolabel, temperature range -20 °C up to +70 °C. Also in NLGI grade 1 available.		ECO-Label
PLANTOGEL ECO 2 S		Environmentally compatible, rapidly biodegradable EP-grease based on lithium soap and synthetic esters for the lubrication of plain and roller bearings. Good pumpability in central lubrication systems, awarded with the EU-Ecolabel, temperature range -40 °C up to +120 °C.		ECO-Label



Product overview **Industrial Lubricants**



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1 INDUSTRIAL LUBRICANTS



RENOLIN

Hydraulic Oils	
RENOLIN DTA-SERIES	Hydraulic and general lubricating oils (machine oils) offering good oxidation resistance and corrosion protection. CL lubricating oils according to DIN 51517-2 and HL hydraulic oils according to DIN 51524-1.
RENOLIN B-SERIES	Lubricating and hydraulic oils with additives to improve ageing resistance, corrosion and wear protection, demulsifying. HLP hydraulic oils according to DIN 51524-2 (B HVI series: DIN 51524-3), ISO 11158-HM.
RENOLIN D-SERIES	Lubricating and hydraulic oils with additives to improve ageing resistance, corrosion and wear protection, detergent/dispersant. HLPD hydraulic oils according to DIN 51524-2, ISO 11158-HM.
RENOLIN MR-SERIES	Universal lubricating and hydraulic oils with additives to improve oxidation and thermal resistance. Excellent corrosion protection, detergent/dispersant. Typical problem solver. HLPD hydraulic oils according to DIN 51524-2, ISO 11158-HM.
RENOLIN MR MC-SERIES	Universal, MC-based lubricating and hydraulic oils. Viscosity Index VI ≥ 150 . Shear stable. Detergent/dispersant. Allows oil changes to be extended. Typical problem solver in machine tools. HVLPD according to DIN 51524-3, ISO 11158-HV.
RENOLIN ZAF B HT-SERIES	Zinc- and ash-free hydraulic and circulating oils of the latest generation excellent ageing resistance, high corrosion protection, demulsifying. Fulfils and surpasses the specs according to DIN 51524-2 HLP, ISO 11158-HM and DIN 515173 CLP.
RENOLIN ZAF D HT-Series	Universal zinc and ash-free hydraulic fluids and industry gear oils, excellent ageing stability and high wear protection. Provide high deterging and dispersing properties. Pass and surpass the requirements according to DIN 51524-2: HLPD, ISO 6743-4: HM, DIN 51517-3: CLP, ISO 6743-6: CKC, DBL 6713-HLP (Exception: dispersant properties), Brugger $>30\text{N/m}^2$.
RENOLIN ZAF D 46 HT PLUS	Universal zinc and ash-free detergent type of hydraulic fluid and industrial gear oil, excellent ageing stability, very high wear protection, latest base oil generation, hydrotreated base oils and low sulphur content. Pass and surpass the requirements according to DIN 51524-2: HLPD, ISO 6743-4: HM, DIN 51517-3: CLP, ISO 6743-6: CKC, DBL 6713-HLPD, Brugger $>30\text{N/m}^2$.
RENOLIN ZAF 46 D WHITE	Zinc and ash-free detergent type of EP-lubricating and hydraulic fluid. Due to selected, bright base oils and matched additives the danger of discolorations during formation of oil films is inhibited. Pass and surpass the requirements according to DIN 51524-2: HLP (Exception: dispersant properties), HLPD, ISO 6743-4: HM.
RENOLIN ZAF MC-SERIES	Shear-stable, zinc- and ash-free hydraulic and general lubricating oils with a VI ≥ 150 . Demulsifying. Formulated with MC base oils. Oil change intervals can be extended. Grades can be rationalised. Fulfil and surpass HVLP hydraulic oil specs according to DIN 51524-3, ISO 11158-HM.
RENOLIN ZAF DT-SERIES	Special zinc- and ash-free hydraulic oils which fulfil Mercedes-Benz specification 6721. Powerful detergent/dispersant properties, particularly good wear protection in boundary friction conditions (Brugger: 50 N/mm ²). HLPD hydraulic oils according to DIN 51524-2, ISO 11158-HV.
RENOLIN MWB-SERIES	Special hydraulic oils with additives to improve ageing stability. Excellent corrosion protection and sludge-transportation properties. Contain a large proportion of EP and anti-wear agents. Zincfree. Good protection in boundary friction conditions. Good Brugger values ($> 50 \text{ N/mm}^2$). HLPD hydraulic oils according to DIN 51524-2, ISO 11158-HM approved by SCHULER.
RENOLIN LIFT-SERIES	Special hydraulic oils for elevators and hydraulic conveyors. Reliably combat stick-slip, especially at high loads and low speeds. HLPD hydraulic oils according to DIN 51524-2, ISO 11158-HM.
RENOLIN XtremeTemp	Special hydraulic oil for low start-up temperatures and wide temperature range based on special semi-synthetic base oils and state-of-the-art additive technology. Excellent shear stability. HVLP hydraulic oils according to DIN 51524-3, ISO 11158-HV.
RENOLIN XtremeTemp PLUS	Like RENOLIN XtremeTemp with additives to reduce slick-slip.
RENOLIN PG 32/46	Fully-synthetic hydraulic and lubricating oils based on polyglycols with high VI's. Watersoluble. Fulfil and surpass HVLP hydraulic oil specs according to DIN 51524-3. Not miscible or compatible with mineral oil! Exceed ISO 15380 HEPG. VDMA 24 569 recommendations should be observed.

1 INDUSTRIAL LUBRICANTS



RENOLIN

Hydraulic Oils	
RENOLIN ANTI STICK SLIP	Special hydraulic oil additive combats stick-slip. Reduces friction. Compatible with HLP, HVLP, HLPD and PAO mineral oils.
RENOLIN FST 101	Special hydraulic oil additive designed to simplify the location of hydraulic fluid leaks. Universally compatible with all hydraulic oils (do not use with polyglycol or water containing fluids).
RENOLIN HighPress 46 DLC	High Performance EP hydraulic oil, zinc- and ash-free for Ortinghaus lamellar coupling systems. Excellent detergent and dispersant properties. Fulfills and surpasses HLPD specs according to DIN 51524-2, ISO 11158-HM. High Brugger. Ortinghaus approval (ON 9.2.19).
RENOLIN UNISYN OL	Fully synthetic hydraulic oils based on polyalphaolefines with very good ageing stability, wear protection, good demulsifying properties and viscosity temperature behavior, high VI and excellent air release properties. The products of the RENOLIN UNISYN OL series fulfil the requirements for hydraulic oils HVLP DIN 51524-3.
Hydraulic Oils – Fire-resistant Hydraulic Oils	
HYDROTHERM 46 M	Fire-resistant, Group HFC hydraulic oil according to DIN 51502 and VDMA 24 317. Water glycol fluid. Satisfies the 7th Luxembourg Report. Environmentally harmless, rapidly biodegradable and free of monoethylene glycol. Approved by BOSCH REXROTH for pressures up to 350 bar.
HYDROTHERM 68 LW RED	Fire-resistant, Group HFC-E hydraulic oil based on water glycol. Water content less than 20%, high wear protection.
RENOSAFE TURBO 46 DR	Synthetic, fire-resistant, Group HFD-R hydraulic oil according to DIN 51502 and VDMA 24 317. Based on special hydrolytic stable phosphoric acid esters.
PLANTOFLUX AT-S (ISO VG 46, 68)	Synthetic, fire-resistant, Group HFD-U hydraulic oils according to DIN 51502 and VDMA 24 317. Based on carbonic acid esters (free of chlorinated hydrocarbons and phosphoric acid esters). Rapidly biodegradable, Factory Mutual Approval – USA.
RENOSAFE FireProtect 46 / 68	Fire-resistant hydraulic fluid type HFD-U according to DIN 51502 and ISO 12922 based on synthetic saturated esters. Highest thermal and oxidative stability. Rapidly biodegradable hydraulic oil.
Gear and General Lubricating Oils	
RENOLIN DTA-SERIES	Hydraulic and general lubricating oils with additives to improve ageing stability and corrosion protection. CL lubricating oils according to DIN 51517-2 and HL hydraulic oils according to DIN 51524-1, ISO 12925-1:CKB.
RENOLIN CLP-SERIES	Demulsifying industrial gear oils with good ageing stability and EP performance. RENOLIN CLP oils fulfil and surpass the specifications laid down in ISO 12925-1:CKC, CKD. Excellent protection against micro-pitting. Approved by well-known gear manufacturers.
RENOLIN CLP PLUS-SERIES	Proven, special mineral oil-based gear oils. Friction-reducing and detergent. Outstanding ageing stability. Good protection against micro-pitting. Extended oil change intervals are possible. Approved by well-known gear manufacturers, ISO 12925-1:CKC, CKD.
RENOLIN AWD-SERIES	Special, mineral oil-based gear oils. Friction-reducing and detergent. Outstanding ageing stability. Good protection against micro-pitting. Good Brugger performance: >70 N/mm ² . CLP-D gear oils according to ISO 12925-1:CKC, CKD.
RENOLIN CLPF SUPER-SERIES	Special raffinates with good ageing stability containing MoS ₂ and synergetic EP additives. Mineral oil-based. For highly-loaded gears especially in unfavourable conditions and for applications subject to intermittent and shock loads. Exceed the requirements of CLPF gear oils according to ISO 12925-1:CKC, CKD.

1 INDUSTRIAL LUBRICANTS



RENOLIN

Gear and General Lubricating Oils

RENOLIN GEAR VCI-SERIES	Special industrial gear oils of the latest generation based on mineral oil with special corrosion protection properties. Reliable long-term corrosion protection in the oil phase as well as in the vapour phase. Excellent wear protection, high scuffing protection, good compatibility with gear oils. Fulfil resp. surpass the requirements for CLP industrial gear oils acc. to DIN 51517-3 (2014): CLP, ISO 6743-6 and ISO 12925-1: CKC / CKD as well as AGMA 9005/E02: EP.
RENOLIN UNISYN GEAR VCI-SERIES	Like RENOLIN GEAR VCI-SERIES based on Polyalphaolefines.
RENOLIN UNISYN CLP-SERIES	Fully-synthetic, PAO-based gear oils with good ageing stability, very high VI and a very low pour point. Excellent protection against micro-pitting. Exceed the requirements of CLP-HC according to ISO 12925-1:CKC, CKD, CKE. Miscible and compatible with mineral oils. Approved by well-known gear manufacturers.
RENOLIN UNISYN XT-SERIES	Fully-synthetic industrial gear lubricants based on polyalphaolefins of the latest generation, very high natural, shear stable viscosity index, excellent low temperature properties. The products are preferably used when increased requirements are set for high and low temperature usage limits. Fulfil resp. surpass the requirements for CLP industrial gear oils acc. to DIN 51517-3: CLP, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE as well as AGMA 9005/E02: EP. Approved by well-known gear manufacturers.
RENOLIN PG-SERIES	Fully-synthetic, polyglycol-based gear oils with the best possible ageing stability and EP properties. Excellent low-temperature behaviour, high VI and very low friction coefficients. Excellent protection against micro-pitting. Exceed the requirements of CLP-PG according to ISO 12925-1:CKC, CKD, CKE, CKT. Not miscible or compatible with mineral oils. Approved by well-known gear manufacturers.
RENOLIN MORGEAR-SERIES	Special lubricating and gear oils with good demulsifying properties and „light“ anti-wear additives. For the lubrication of Morgoil bearings in steel and rolling mills. (Meet the requirements of Danieli and SMS).
RENOLIN HighGear-SERIES	Special gear oils with state-of-the-art additive technology based on mineral oil and synergetic working additives (PD – plastic deformation technology). Excellent wear protection performance also under strong frictional stress. Surpasses the requirements of ISO 12925-1:CKC, CKD, CKE.
RENOLIN HighGear Synth-SERIES	Special gear oils with state-of-the-art additive technology based on PAO and synergistically acting Plastic Deformation (PD) additives. Excellent wear protection performance also under strong frictional stress (lifetime extension possible). Surpasses the requirements of ISO 12925-1:CKC, CKD, CKE.
RENOLIN SynGear 220 HT	Fully-synthetic high-temperature EP industrial gear oil based on selected polyglycol (PAG). Excellent wear protection and ageing stability; according to DIN 51517-3 (2009): CLP-PG and ISO 6743-6 CKC/CKD/CKT.
RENOFLUID TF 1500	Power transmission for lubrication of VOITH-turbo gears, hydraulic oil for VOITH-turbo clutches, also as low-viscosity high-pressure gear oil for gears particularly with control and joint oil circuit.

Slideway Oils

RENEP K-SERIES	Solvent raffinates with special additives to reduce stick-slip. Good detergency. Compatible with water-miscible cutting fluids. CGLP slideway oils according to DIN 51502. Detergent/dispersant.
RENEP CGLP-SERIES	Solvent raffinates with lubricity improvers and friction-reducing additives. Good EP performance. Protect against corrosion and combat stick-slip. Advanced formulation. Proven good compatibility with many water-miscible cutting fluids. CGLP slideway oils according to DIN 51502. Demulsifying. These slideway oils are especially suitable for the use with ECOCOOL cutting fluids.
RENEP KN-SERIES	Solvent raffinates with surface-active and friction-reducing additives. Good EP performance and corrosion protection. Combat stick-slip. Excellent compatibility with cutting fluids. CGLP slideway oils according to DIN 51502. Demulsifying. Contain tackiness improvers. These slideway oils are especially suitable for the use with ECOCOOL cutting fluids.

1 INDUSTRIAL LUBRICANTS



RENOLIN

Paper Machine Oils

RENOLIN PA-SERIES

Paper machine oils, circulating and lubricating oils based on selected mineral oils for use in central lubricating systems in paper machines. Very good wear protection and corrosion protection. High ageing stability. Fulfills and surpasses the requirements for industrial gear oils CLP acc. to DIN 51517-3. (ISO VG 150, 220)

RENOLIN UNISYN CLP PA-SERIES

Fully-synthetic, lubricating and circulating oils of the latest generation based on high performance polyalphaolefins which are successfully in use in big central lubricating systems in papermachines. Synergistically acting additives guarantee high corrosion protection and excellent wear protection of gear sets and bearings. RENOLIN UNISYN CLP PA-SERIES has a high oxidation stability, avoids the formation of sludge and has a high stability at high temperatures. The products can also be used as gear oils CLP HC according to DIN 51517, part 3. (ISO VG 150 - 320)

Machine Oils

RENOLIN AR-SERIES

General lubricating oils for applications with no defined lubricant recommendations. Suitable for temperatures up to +70 °C. Exceed the requirements of L-AN lubricating oils according to DIN 51501.

Cylinder Oils

RENOLIN CH-SERIES

High-quality, mineral oil-based cylinder oils. Good thermal stability and low coking. Exceed the requirements of Z lubricating oils according to DIN 51510.

Turbine Oils

RENOLIN ETERNA-SERIES

Turbine oils of the latest generation for lubrication of gas, steam and turbo-compressors (also with gear boxes, FZG ≥ 10). Based on high-quality, hydrocracked base oils. High ageing resistance, excellent protection against sludging. Turbine oils according to DIN 51515 part 1 and part 2 (L-TDP and L-TGP). Approved by SIEMENS and MAN.

RENOLIN ETERNA SGV-SERIES

Turbine oils of the latest generation for lubricants of gas and steam turbine as well as for turbo compressor without gear boxes. Exceeds the requirements of DIN 51515-1 (L-TD), DIN 51515-2 (L-TG) and MAN TURBO AG, Germany gear boxes. Approved by SIEMENS and MAN.

Transformer Oils

RENOLIN ELTEC

Premium-quality, mineral oil-based insulating oil which can be used in transformers, converters and switching gear.

RENOLIN E 10

High quality, inhibited insulating oil based on naphthenic base oils which can be used in transformers, switches, chocking coils, condensers and converters. Excellent dielectric properties and high oxidation stability. Fulfills the requirements for insulating oils class I according to RWE Power Specification.

RENOLIN E 3

Inhibited switchgear oil based on naphthenic base oils. Especially for the use in outdoor units.

Tacky Oils

RENOTAC-SERIES

High-quality raffinates with lubricity improvers and anti-wear agents. Good EP performance and adhesion (tackiness). Lubricants for all total-loss applications (plain bearings, slideways, guides etc.).

1 INDUSTRIAL LUBRICANTS



RENOLIN, PLANTO

Heat Transfer Oils

RENOLIN THERM-SERIES

Special mineral and synthetic hydrocarbon-based oils with excellent thermal stability and high boiling points. Good thermal conductivity. Suitable for inlet temperatures ranging from -20 °C to over +350 °C. RENOLIN THERM 250, RENOLIN THERM 320, RENOLIN THERM 330 S, RENOLIN THERM 380 S.

Environmentally Friendly Hydraulic and Lubricating Oils

PLANTOHYD 40 N



Environmentally compatible hydraulic and lubricating oils based on natural raw materials with additives to improve oxidation stability and ageing stability. Type HETG acc. to ISO 15380, for mobile and stationary hydraulic equipment. Rapidly biodegradable acc. to OECD 301 B >60%, awarded with the European Eco Label. Change-over recommendations acc. to ISO 15380 should be observed.

PLANTOHYD S-SERIES



Environmentally compatible lubricating and hydraulic oils based on partly saturated synthetic esters. They can be used universally in the temperature range from - 30 °C to + 90 °C. Rapidly biodegradable acc. to OECD 301 B >60%. Pass and surpass the requirements according ISO 15380 HEES. Change-over recommendations acc. to ISO 15380 should be observed. Awarded with the European Eco Label. ISO VG 15-46 are classified as non water pollutant.

PLANTOLUBE POLAR S-SERIES

Hydraulic oils based on saturated synthetic esters. Environmentally friendly because rapidly biodegradable. Extremely low pour point. Universally applicable at temperatures ranging from -55 °C to +90 °C. Exceed ISO 15380 HEES. ISO 15380 change-over recommendations should be observed.

PLANTOSYN 3268



Environmentally friendly HVI multigrade hydraulic oil with high temperature stability based on fully-saturated, synthetic esters (HEES). Rapidly biodegradable according to OECD 301 B >60%. Awarded the European environmental seal.

PLANTOSYN HVI-SERIES



Hydraulic oil based on fully-saturated synthetic esters. Environmentally friendly because rapidly biodegradable. Suitable for all hydraulic systems. Outstanding EP performance. Tested and approved by BOSCH REXROTH (BRUENINGHAUS) in axial-piston pumps and SAUER-SUNDSTRAND. Surpasses ISO 15380 HEES 46. ISO 15380 change-over recommendations should be observed. Awarded the European environmental seal.

Environmentally Friendly Gear and General Lubricating Oils

PLANTOGEAR S-SERIES



Rapidly biodegradable and environmentally friendly, high performance gear oils based on saturated synthetic esters. Comply with DIN 51517-3. Exceed ISO 15380 HEES. Changeover recommendations according to ISO 15380 should be observed. Excellent protection against micropitting. Approved by well-known gear manufacturers. Awarded the European environmental seal. (ISO VG 220-680)

PLANTOGEAR HVI-Series



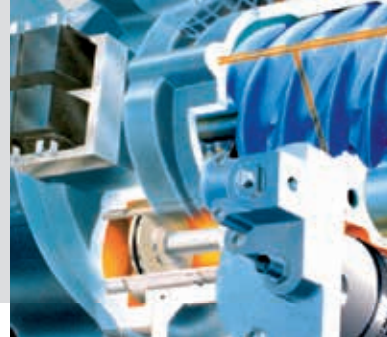
Rapidly biodegradable and environmentally friendly, high performance gear oils based on saturated synthetic esters. Comply with DIN 51517-3. Exceed ISO 15380 HEES. Changeover recommendations according to ISO 15380 should be observed. Excellent protection against micropitting. Awarded the European environmental seal. (ISO VG 100-150)

Environmentally Friendly Slideway Oil

PLANTOLUBE CGLP 68/220 S

Rapidly biodegradable and environmentally friendly slideway oils based on synthetic esters. Good EP and anti-wear performance. Very good friction coefficients. These slideway oils are perfectly matched to PLANTOCUT and PLANTOHYD machine tool lubricants.

1 INDUSTRIAL LUBRICANTS



RENOLIN, PLANTO

Environmentally Friendly Tacky Oils

PLANTOTAC HV-SERIES

Premium-quality, vegetable oil-based tacky lubricants. Environmentally friendly because rapidly biodegradable. Good viscosity-temperature behaviour, tackiness, wear protection and film stability. Suitable for use as total-loss lubricants on timber sawing grids, joints and guide pins.

PLANTO TAC 68



Biodegradable Super High Performance Chain Saw Oil based on rapeseed. For professional use in chain saws. Excellent lubricity and good ageing stability. Awarded the European Eco Label.

Environmentally Friendly Mould-release Oils

PLANTO SCHALUNGSÖL N



Universal, vegetable oil-based mould-release oil. Rapidly biodegradable acc. to OECD 301 B > 60%. Awarded with the European Eco Label.

PLANTO SCHALUNGSÖL S

Universal, ester-based mould-release oil. Rapidly biodegradable acc. to OECD 301 B > 60%.

Environmentally Friendly Compressor Oil

PLANTOLUBE SC 46 S

Rapidly biodegradable, high performance oil for screw compressors. Based on saturated synthetic esters. PLANTOLUBE SC 46 S offers excellent ageing stability, good air release properties and low evaporation losses.

Compressor and General Lubricating Oils

RENOLIN 200-SERIES

Ageing-resistant lubricating oils with good viscosity-temperature behaviour for normally stressed gearboxes, drive units as well as plain and rolling bearings. C lubricating oils according to DIN 51517-1 and VB lubricating oils according to DIN 51506.

RENOLIN 500-SERIES

Particularly ageing-resistant lubricating oils offering minimal coking. Contain additives to improve corrosion protection and ageing stability. VDL lubricating oils according to DIN 51506. For compressor outlet temperatures up to +220 °C.

RENOLIN DD-SERIES VDL

Lubricating oils for air compressors with lube-injected chambers. Contain additives to increase corrosion protection and ageing-resistance and reduce deposits (detergent-effect). VDL lubricating oils according to DIN 51506.

RENOLIN SC-SERIES SC MC-SERIES

Cooling oils for screw compressors with additives to increase corrosion protection and ageing stability and to reduce deposits. RENOLIN SC MC oils for thermally-stressed compressors. High viscosity index. Low foaming. Allow service intervals to be extended.

RENOLIN COOL +

State-of-the-art high performance screw compressor oil for difficult applications. Outstanding ageing stability and extremely long life.

RENOLIN UNISYN OL-SERIES

Fully-synthetic cooling oils for piston and screw compressors based on polyalphaolefins with excellent oxidation stability, good wear protection, outstanding demulsification and excellent viscosity-temperature behaviour. High viscosity index. Excellent air release. Allow service intervals to be extended. VDL according to DIN 51506 and synthetic hydraulic oils according to DIN 51524-3.

RENOLIN SE-SERIES

Fully-synthetic air compressor oils based on advanced synthetic ester technology.

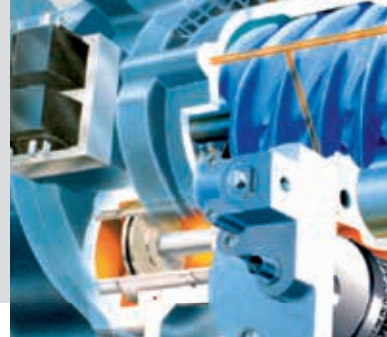
RENOLIN VAC 100 F

Vacuum pump lubricant based on highly refined mineral oils. Does not contain any additives.

RENOLIN SynAir 46

High performance synthetic air compressor fluid, excellent biodegradability according to OECD 301C > 60%. Excellent thermal and oxidation stability.

1 INDUSTRIAL LUBRICANTS



RENISO

Refrigeration Oils

RENISO K-SERIES	Highly-refined, naphthenic refrigeration oils for use with R22 and NH ₃ refrigerants (RENISO KM 32 - KS 46 - KC 68 - KES 100).
RENISO TES 100	Highly-refined, paraffinic refrigeration oil with excellent viscosity-temperature behaviour for turbocompressors.
RENISO WF-SERIES	Special, highly-refined, mineral oil-based refrigeration oils for the lubrication of hermetically sealed refrigeration compressors which use Isobutane (R600a) refrigerants.
RENISO S/SP-SERIES	Fully-synthetic refrigeration oils based on chemically and thermally stable alkylbenzenes (ISO VG 32-220). For use with R22, S 68 refrigerants; RENISO S - also suitable für NH ₃ .
RENISO TRITON SE/SEZ-SERIES	Fully-synthetic, ester-based refrigeration oils for fluorinated HFC and HFO refrigerants such as R134a, R404A, R507, R407C, R410A, R1234yf, R1234ze, etc., highly-dried.
RENISO SYNTH 68	Fully-synthetic, PAO-based refrigeration oil for all NH ₃ and CO ₂ applications (not miscible with CO ₂).
RENISO UltraCool 68	Fully-synthetic refrigeration oil for NH ₃ applications. For low oil carry-over and high thermal stability.
RENISO PG 68/GL 68	Fully-synthetic, polyalkylenglycol (PAG)-based, ammonia-(semi)-soluble refrigeration oils for NH ₃ and hydrocarbon refrigerants.
RENISO PAG 46/100	Fully-synthetic, polyalkylenglycol (PAG)-based refrigeration oils for automotive air conditioning systems using R134a refrigerants (ISO VG 46; ISO VG 100).
RENISO PAG 1234	Fully-synthetic refrigeration oil based on double-endcapped polyalkylene glycols (PAG). Newly developed for passenger cars air-conditioning (A/C) systems with HFO-1234yf as refrigerant (ISO VG46). Also suitable for R134a.
RENISO C-SERIES	Special, synthetic polyolester (POE)-based refrigeration oils for use with natural CO ₂ refrigerants. For transcritical and subcritical CO ₂ applications. Perfectly miscible with CO ₂ .
RENISO ACC 46 ACC 68	Fully-synthetic refrigeration oils based on double-encapped PAG. Contain an effective additive system for outstanding Anti-Wear (AW) performance and highest thermal stability. Developed for transcritical CO ₂ applications like air-conditioning or heat pump systems.

Lubricants for the Food and the Pharma Industry

CASSIDA	Special lubricants for the food/pharma industry. For casual, technical not avoidable contact with food. NSF-H1 approved.
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Gasometer sealing oil

RENOLIN GAS 68 GAS 70	Universally usable, special gasometer sealing oil with very good low temperature behaviour, very low pourpoint and anti-stick-slip properties.
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RENOLIT

Mineral Oil-based Greases for Plain and Roller Bearings

RENOLIT CA-LZ	High performance, long-life tacky grease based on a special calcium soap. Excellent corrosion protection as well as resistance to water and saltwater. -30 °C to +120 °C. Also available in spray can as RENOLIT UNIMAX LZ .
RENOLIT CX-EP-SERIES	Calcium complex soap-based greases for highly-stressed bearings as well as central lubrication systems. Recommended for applications in the chemical, rubber and steel industries as well as for mining and quarrying. NLGI grade 0, 1 and 2, -30 °C to +140 °C.
RENOLIT CXI 2	Calcium sulphonat complex grease with particularly good working stability and corrosion protection, even in the presence of salt water. Excellent EP performance. -20 °C to +160 °C.
RENOLIT CSX 15	Calcium sulphonat complex heavy duty grease with excellent corrosion protection and good properties, NLGI 1-2, -20 °C up to +180 °C.
RENOLIT GP-SERIES	Standard, multipurpose greases based on lithium soaps for the general lubricating of machines, NLGI grade 1, 2 and 3, -30 °C to +160 °C.
RENOLIT MP	Standard, multipurpose EP grease. Suitable for low temperatures. -40 °C to +120 °C. Approved in line with MB 267.0.
RENOLIT LZR 2 H	Highly-adhesive, premium-quality, long-life EP grease based on lithium soap for all plain and rolling 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. Approved for central lubrication systems of SKF Lubrication Solutions, BEKA-MAX and LINCOLN.
RENOLIT H 443-HD 88	Lithium soap-based EP grease with tackiness improvers. Resistant to weak acids and alkalines as well as cutting fluid emulsions. Recommended for applications subject to vibration. Also for damp atmospheres. -30 °C to +140 °C.
RENOLIT FEP-SERIES	Lithium soap greases with EP additives for mechanically demanding applications, NLGI 1, 2 and 2-3, -20 °C to +140 °C.
RENOLIT FAP 502	Lithium-/calcium soap-based EP grease with high base oil viscosity for highly loaded plain and roller bearings with low speeds.
RENOLIT FLM 2	EP-grease based on lithium soap and mineral oil, containing molybdenum disulphide (MoS ₂) NLGI 2, -30 °C to +140 °C.
RENOLIT FLM 502	EP-grease based on lithium-/calcium soap and high viscous mineral oil, containing molybdenum disulphide (MoS ₂) for the lubrication of plain and roller bearings under high loads and with low speeds.
RENOLIT DURAPLEX EP-SERIES	EP-allround greases based on lithium complex soaps. Good corrosion protection. For high thermal and mechanical loads. NLGI grade 00-000, 1, 2 and 3, -30 °C to +160 °C.
RENOLIT LX-PEP-SERIES	Special greases based on lithium complex soap for long-life applications. Good corrosion protection, thermally and mechanically stable, specially suitable for wheel bearings and hub units in cars and trucks, NLGI 1-2, 2 and 3, -30 °C to +150 °C. Approved according to MAN 248 Li-H 2, MB 265.1, SCHAEFFLER, DB-Kenndatenblatt 873 499, ZF TE-ML 12, VW TL 52147X, Interprecise.
RENOLIT PU-FH 300	High temperature grease containing a polyurea-based thickener for low-speed bearings. -20 °C to +180 °C.

Greases based on Synthetic Fluids for Plain and Roller Bearings

RENOLIT HLT 2	Ageing-resistant, thermally and mechanically stable, lithium soap greases based on polyalphaolefines. Good elastomer compatibility. NLGI 2, -40 °C to +140 °C.
RENOLIT S 2	Special, ester-based grease for high-speed roller bearings and/or low temperatures. -60 °C to +120 °C.
RENOLIT JP 1619	Mechanically-stable, low-temperature grease. Also suitable for high-speed bearings. NLGI grade 1 -50 °C to +120 °C.

2_GREASES



RENOLIT

Greases based on Synthetic Fluids for Plain and Roller Bearings

RENOLIT GL 1	Low-friction and low-wear special grease with noise-suppressing properties. For all types of plain and roller bearings as well as gearboxes, guide rails, sliding roofs, door brakes, screws, etc., -30 °C to +140 °C. Approvals BMW and OPEL. Also available in spray cans as RENAX GLEITSPRAY .
RENOLIT HI-SPEED 2	Special grease for roller bearings of high speed machine tool and textilmachine spindles, $n \times d_m$ up to 1,4 million mm/min, NLGI 2, -40 °C up to +120 °C.
RENOLIT CX-TOM 15	Calcium sulphonat complex grease with outstanding low temperature characteristics. -40 °C to +160 °C.
RENOLIT PU-MA 2	Fully synthetic high temperature grease based on a polyurea thickener for the lubrication of plain and roller bearings, e.g. electric motores, hot air blowers, dryers in the paper industry or calander, -40 °C up to +180 °C.
RENOLIT UNITEMP 2	Fully-synthetic, high-temperature grease. Particularly resistant to ageing, water resistant and work stable. Suitable for a wide range of temperatures between -50 °C and +180 °C.

Mineral Oil-based Semi-fluid Greases

RENOLIT SO-GF-SERIES	Stringy, sodium soap-based gear greases with good wear protection. -30 °C to +100 °C. Available in the NLGI grades 0 and 00.
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. Approved according to MAN 283 Li-P 00/000 and MB 264.0, suitable for central lubrication systems: SKF Lubrication Solutions, DEUTSCHE TECALEMIT and LINCOLN.
RENOLIT SF 7-041	Semi-fluid grease for central lubrication systems in machine tools and other machinery. -30 °C to +120 °C.
RENOLIT DURAPLEX EP 00	Semi-fluid grease based on lithium complex soaps. -30 °C to +140 °C.

Silicone Greases

RENOLIT SI 300-SERIES	Low temperature silicone greases. Approved by the German Materials Testing Institute for the lubrication of bridge supports and sliding films in the construction industry. -70 °C to +160 °C and even +200 °C for short periods.
RENOLIT SI 400-SERIES	Standard silicone greases for household goods and ventilators operating at average ambient temperatures. -30 °C to +180 °C.
RENOLIT SI 511-SERIES	High-temperature silicone greases for furnace wagons in the mining and quarrying industries, hot air blowers and drying lines. -30 °C to +220 °C and even +280 °C for short periods.
RENOLIT SI 708	Electrically-insulating gel grease. Also suitable as a lubricating and assembly grease. -40 °C up to 200 °C.



PLANTO, RENOLIT

Rapidly Biodegradable Greases for Plain and Roller Bearings

PLANTOGEL ECO N-SERIES



Environmentally compatible, rapidly biodegradable total loss lubricating grease based on calcium soap and rape seed oil. Awarded with the EU-Ecolabel, NLGI 1 and 2, temperature range -20 °C up to +70 °C.

PLANTOGEL ECO 2 S



Environmentally compatible, rapidly biodegradable EP-grease based on lithium soap and synthetic esters for the lubrication of plain and roller bearings. Good pumpability in central lubrication systems, awarded with the EU-Ecolabel, temperature range -40 °C up to +120 °C.

Special Greases

RENOLIT CX-HT-SERIES

Calcium sulphonate complex grease with MoS₂ and graphite for the lubrication of highly-stressed friction points at high temperatures. Excellent protection against corrosion and wear. Recommended for the greasing of gear wheels, NLGI 0 and 2, -20 °C to +200 °C. In NLGI grade 2 also available in spray cans as **RENOLIT UNILOAD**.

RENOLIT CX-TC 1

Paste based on calcium sulphonate complex soap with a high content of graphite for use as a thread compound in the offshore and mining industries, -20 °C to +200 °C.

RENOLIT CHUCK PASTE

White special paste to avoid fretting corrosion of threads and chucks, NLGI 2-3.

RENOLIT PASTE PW

Special paste on calcium sulphonate soap and mineral oil as assembly paste to avoid fretting corrosion.

RENOLIT ST 8-081/2

High-temperature grease for plain and roller bearings in the industrial sector. Approved by STEINMÜLLER for smoke flue gas flaps in power stations. -20 °C to +260 °C, +280 °C for short periods.

RENOLIT ST-FTM-SERIES

Synthetic high temperature grease based on an organic thickener. Used for the lubrication of ejectors of plastic injection moulding machines and for tire heating press segment lubrication, NLGI 1 and 2, temperature range -20 °C to +250 °C.

DUOTAC ZAHNRADSPRAY

Special, bitumen-free, graphite lubricant for all exposed gears, chains and chainwheels. -20 °C to +120 °C.

RENOLIT AS

Hydrocarbon-resistant, tacky, sealing grease. Is not washed out by mineral oils, gasoline and some chlorinated hydrocarbons. -20 °C to +140 °C.

RENOLIT FOL 2

Special grease containing PTFE for the lubrication of very low-speed bearing surfaces such as sliding films in the construction industry. Approved by the German Materials Testing Institute. -40 °C to +140 °C.

RENOLIT TFL 2

Special grease with PTFE especially for slidepairs with and without plastic components. -40 °C to +140°C.

RENOLIT EP X1

Heavy duty gear coupling grease, NLGI 1, -15 °C to +120°C.

3_CUTTING FLUIDS



ECOCOOL

Boron free, Biocide free, Universal Cutting Fluid

ECOCOOL AFC 1515 BF

Multifunctional soluble cutting fluid for steel- and aluminium machining.
For heavy machining e.g. thread moulding.

Boron free, Biocide free, Water-miscible Cutting Fluids Specially for Aluminium and High-alloy Steels

ECOCOOL TN 2525-HP BFH

Cutting fluid with EP additives, universally applicable for aluminium, titanium and stainless steel, high pressure stable, low foaming.

ECOCOOL PHH AL 5

Mineral oil-based cutting fluid for the roughing of aluminium and steel. Also for the special aluminium alloys. Excellent lubricating characteristics.

Water-miscible Cutting Fluid Specially for Cast Iron

ECOCOOL GRINDSTAR BF

Microemulsion with a large buffer capacity. Specially formulated for grey cast iron and all common steels. Optimized cleaning and flushing performance. Economical consumption.

ECOCOOL FERROSTAR BF

EP alloyed, universal cutting fluid particularly for the machining of GSV and high alloyed steel. The product's unique cleaning and flushing performance keeps machines clean. Economical consumption.

Boron free, Biocide free, Water-miscible Cutting Fluid, pH-neutral

ECOCOOL ALUSTAR BF

Multifunctional cutting fluid for the machining of steel, aluminium and other nonferrous metals. PH-neutral. Low alkaline content and thus skin compatible. Also suitable for special aluminium alloys. MAPAL approved.

Boron free, Water-miscible Cutting Fluid Specially for Magnesium

ECOCOOL 2516 MG

High-quality cutting fluid with overhanging emulsion stability and special additives for the minimisation of MG desposits and hydrogenation; Biocide containing.

Boron free, Water-miscible Cutting Fluids Specially for Copper and Brass

ECOCOOL COPPERSTAR

Boron- and amine-free universal metal working fluid with additives suitable for all nonferrous metals, Formaldehyde Depot free; BIOCIDES containing.

ECOCOOL 2520

High-alloyed, universal cutting fluid for the machining of aluminium alloys, steel and particularly for zinc free and lead free nonferrous metals. Formaldehyde Depot free. Biocide containing.

Boron free, Biocide free, Water-miscible, Full-Synthetic Cutting Fluids

ECOCOOL S-FC

Fully-synthetic cutting fluid for the machining and grinding of steel and cast iron. Economical consumption, good residue behaviour, good corrosion protection, excellent foam behaviour.

ECOCOOL S-ALU

Fully-synthetic cutting fluid for highest requirements for the grinding of aluminium and cast iron. Economical consumption, good residue behaviour, good corrosion protection, excellent foam behaviour even in VE-Water.

ECOCOOL S-GFC

Fully-synthetic cutting fluid for the grinding of cast iron. Good residue behaviour, special corrosion protection additives for cast iron, excellent foam behaviour.

Further ECOCOOL cutting fluids also boron- and formaldehyde-free with special requirements on request.

3_CUTTING FLUIDS



ECOCOOL

Boron free, Biocide free, Water-miscible Cutting Fluid Specially for Grinding Carbides

ECOCOOL TOOLSTAR S-CC-1	Fully-synthetic cutting fluid formulated for the grinding of carbides. Combats the complexing of cobalt.
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Biocide free, Water-miscible Cutting Fluid Specially for Drinking Water Pipes

ECOCOOL GS 2000	Fully-synthetic thread cutting agent for drinking water pipes. Approved by the DVGW (German Institute for Gas and Water).
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Emulsion Maintenance and Service Products

ECOCOOL AKTIV-SERIES	Correction concentrates for water-miscible cutting fluids. Refreshes, for example, emulsifiers, corrosion inhibitors and EP agents.
ANTISEPT-SERIES	Bactericides and fungicides for the maintenance of water-miscible cutting fluids. Ideal for ECOCOOL and ECOCOOL S products.
ANTIFOAM-SERIES	Defoaming agents, perfectly matched to the water-miscible ECOCOOL and ECOCOOL S series of cutting fluids.
RENOCLEAN SMC +	System cleaner, perfectly matched to the water-miscible ECOCOOL and ECOCOOL S series of cutting fluids.
RENOCLEAN FXM 4005	Cleaner for cutting fluids perfectly matched to the water-miscible ECOCOOL and ECOCOOL S series. In combination with the ANTISEPT series, also suitable as system cleaner.

3_CUTTING FLUIDS



ECOCUT

Neat, Chlorine-free Cutting Oils

ECOCUT 3000-SERIES	Steel machining oils containing a large percentage of additives. These products can also be used for the machining of nonferrous metals.
ECOCUT HSG	Special grinding oils for flute, deep, gear and tool grinding operations.
ECOCUT HFN-UNI	Special grinding oils for gear, flute and deep grinding operations. Also for machining operations with defined cutting edges.
ECOCUT TOOLSTAR	Special grinding oils for tools, HSS and carbides.
ECOCUT HON/HFN	Honing and finishing oils for steel, cast iron and aluminium alloys. Also suitable for bore hole honing.
ECOCUT FE/1520	Spark erosion oils. Universally suitable for roughing and precision passes. Neutral odour and free of aromatics.
ECOCUT 500-SERIES	Thread-cutting oils with high EP performance.
ECOCUT 600-SERIES	Deep hole drilling oils, universally applicable for all deep hole drilling processes using gun, ejector or BTA drills.
ECOCUT 700-SERIES	Deep hole drilling oils for chrome-nickel steels. Recommended for all operations on difficult-to-machine chrome-nickel steels.
ECOCUT 800/8000-SERIES	Broaching oils. Special oils for stainless steels, specially for the vertical and horizontal broaching of gear teeth and V-grooves.

Environmentally Friendly, Neat Cutting Oils

UNIFLUID 10 UNIFLUID 32	Rapidly biodegradable, ester-based cutting oils. Multifunctional application in machine tools at cutting and hydraulic oils. Suitable for all materials.
PLANTOCUT SR-SERIES	Rapidly biodegradable, ester-based cutting oils. Can be used for all materials.

Neat Minimum Quantity Lubrication Products

PLANTO MIKRO-SERIES	For use in minimum quantity lubrication (MQL) systems. High EP performance. For all materials. Ester based.
ECOCUT MIKRO-PLUS-SERIES	For use in minimum quantity lubrication (MQL) systems. High EP performance. For all materials. Fatty alcohol based.

Multifunctional Oils

ECOCUT HFN/LE-SERIES	Universal cutting oils for nonferrous metals, cast iron and steel. Low-misting and low-evaporation. Can also be used as HLP hydraulic oils.
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Multifunctional Oils Specially for the Machining of Magnesium

ECOCUT HFN 16 LE	Special cutting oil for the machining of magnesium and its alloys.
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4_ QUENCHING FLUIDS



THERMISOL

Quenching Fluids / Quenchant Concentrates

THERMISOL QB-SERIES

Bright quenching oils.

THERMISOL QH-SERIES

High Performance quenchants and high performance hardening oils.

THERMISOL QW-SERIES

Hot oil quenchants and annealing oils.

THERMISOL QHY-SERIES

Synthetic, high performance quenching and hardening oils.

THERMISOL QZS-SERIES

Water-miscible quenching fluids.

5_CLEANER



RENOCLEAN

Immersion cleaner (aqueous, alkaline)

RENOCLEAN SPEZIAL 2000	Medium alkalinity for universal use (immersion and ultrasonic for workpieces, manually for floors, etc.). Usable at temperatures from +20 to +70 °C.
RENOCLEAN VR 1798/2	Medium alkalinity for immersion cleaning with and without ultrasonic. Also suitable for floor cleaning. Temperature range from +20 to +60 °C.
RENOCLEAN FDC 4001	Highly alkaline, for immersion in the medical field, with and without ultrasonic. Temperature range from +20 to +60 °C.
RENOCLEAN MDT 3002	Emulsifying surfactant for alkaline, neutral and acidic industrial cleaners. Use as emulsifying salt-free immersion and ultrasonic cleaner.

Spray and immersible cleaner (aqueous, alkaline)

RENOCLEAN MTO 3001	Multi-metal-usable salt-free spray and immersion cleaner, Medium alkalinity, low foaming from above 45°C, ultrasonic suitable. Temperature range from +30 to +80 °C, up to 25 bar.
RENOCLEAN MTA 3003	Multi-metal-usable spray and immersion cleaner, Medium alkalinity, low foaming, ultrasonic suitable. Temperature range from +40 to +80 °C, up to 15 bar.
RENOCLEAN MSA 3001	Multi-metal-usable spray and immersion cleaner, Medium alkalinity, ultrasonic suitable. Temperature range from +40 to +80 °C, up to 5 bar.
RENOCLEAN MDA 4002	Highly alkaline, silicate free, for ferrous metals and Hot-dip galvanised steel. Temperature range from +20 to +80 °C; sprayable up to 4 bar.
RENOCLEAN FSA 4017	Spray and immersion cleaner for ferrous metals, highly alkaline, suitable for ultrasonic. Temperature range from +40 to +80 °C, up to 25 bar.

Spray cleaner (aqueous, alkaline)

RENOCLEAN VR 1021	Medium alkaline, salt-free neutral-cleaner. Applicable at temperatures from +40 to +80 °C and up to max. 20 bar.
RENOCLEAN VR 1021 DGI	Medium alkalinity strongly demulsifying, for high pressure application. Temperature range from +10 to +80 °C, up to 600 bar.
RENOCLEAN VR 1021 CXV	Medium alkalinity, also for prerssure floodung and high pressure deburring. Operating temperature +30 to +80 °C, up to 300 bar.
RENOCLEAN MSO 3004	Medium alkalinity, salt free, mikrofilterable for high pressure deburring. Temperature range from +30 to +80 °C, up to 500 bar.
RENOCLEAN WSA 4002	Spray cleaner for heavily soiled ferrous metals, highly alkaline, contains silicate. Temperature range from +30 to +70 °C, up to 15 bar.

Modular cleaner (builder and surfactant)

RENOCLEAN MTA 2001, MTA 3001, MTA 4001	Neutral to moderately alkaline builders, phosphate-containing, mikrofilterable. Surfactant, silicate and borate-free, for immersion, ultrasonic and spray cleaning systems, for almost all surfaces. Temperature range from +40 to +80 °C.
RENOCLEAN FTA 4001	Highly alkaline, phosphate-free builder, mikrofilterable. Surfactant, silicate and borate-free, for immersion, ultrasonic and spray cleaning systems. Can be used for dephosphating and as a pretreatment in electroplating. Temperature range from +20 to +85 °C.



RENOCLEAN

Modular cleaner (builder and surfactant)

RENOCLEAN FTA 4002	Highly alkaline, phosphate-builder, mikrofilterable. Surfactant, silicate and borate-free, for immersion, ultrasonic and spray cleaning systems. Applicable as a pretreatment in electroplating. Temperature range from +40 to +80 °C.
RENOCLEAN ENTFETTER 39	Highly alkaline, silicate and phosphate containing builder, surfactant and borate free, for immersion, ultrasonic and spray applications. Applicable as a pretreatment for electroplating. Operating temperature +20 to +80 °C.
RENOCLEAN TENSID 161	Low demulsifying surfactant for neutral and alkaline cleaner for immersion applications, suitable as an additive for vibratory finishing.
RENOCLEAN MST 2001	Demulsifying surfactant for acidic, neutral and alkaline cleaner for immersion, ultrasonic and spray applications. Can also be used without Builder. Suitable as an additive for vibratory finishing.
RENOCLEAN VR 1500	Demulsifying surfactant for neutral and alkaline cleaner for spray applications. Can also be used without Builder.
RENOCLEAN MDT 3002	Emulsifying surfactant for alkaline, neutral and acidic industrial cleaners. Useful as an additive for vibratory finishing.

Acidic cleaner

RENOCLEAN FSO 2010	Neutral cleaner and rust remover primarily for corroded steel and castings, usable after thermal or chemical deburring, for immersion, ultrasonic, pressure flooding and spray applications.
RENOCLEAN FTM 1001	Phosphoric acid cleaner to remove rust from workpieces and corroded equipment, as well as for cleaning encrusted, contaminated cleaning equipment.

Hydrocarbon Cleaner

RENOCLEAN MTS 7001	Organic Cleaner (mod. Alcohol, FP ~ 61 °C) with a very high dissolving power for fats and oils, it triggers due to the good dissolving properties, many partially polar residues that can not be solved with conventional hydrocarbon cleaners.
RENOCLEAN MVS 8015	Isoparaffin-based Hydrocarbon cleaner with low flash point of 56 °C (GHS: Flammable) primarily for solvent systems, manual application possible.
RENOCLEAN KU	Isoparaffin-based universally applicable Hydrocarbon cleaner with flashpoint ~ 62 °C, in particular for the precision mechanics and electronics, for solvent systems suitable.
RENOCLEAN KAF	Hydrocarbon cleaner with Flash point ~ 63 °C for universal use in industry and workshop, for solvent systems. Free of aromatics, short drying time.
RENOCLEAN KLV	VOC-free, slowly evaporating Hydrocarbon cleaner with flashpoint > 90 °C for universal application and solvent systems.
RENOCLEAN MVS 9014	VOC-free, slowly evaporating Hydrocarbon cleaner with corrosion protection, Flash point > 90 °C for universal application and solvent systems.
RENOCLEAN E	Emulsifying Hydrocarbon cleaner with flashpoint ~ 63 °C for general use, for example in the workshop.
RENOCLEAN UWF / FUCHS MULTICLEAN	Hydrocarbon cleaner with flashpoint ~ 62 °C for cleaning of machines, engines, chassis, tarpaulins and other parts of oils, fats, resins, waxes, tar and uncured coatings.

5_CLEANER



RENOCLEAN

System cleaner for waterbased operating fluids

grotanol® FF 1 N	Microbiocidal system cleaner for circulation systems and production lines. Free of formaldehyde and organically bound chlorine. Almost registered throughout Europe, e.g. BfR_Productnumber: 4121812.
RENOCLEAN FXM 4005	Modular, biocide and fungicide-free system cleaner for the supply systems of water mixed working fluids and coolants. Additivable as needed with biocides and fungicides from our ANTISEPT-Range.
RENOCLEAN SMC / SMC+	Highly effective system cleaner for the supply systems of water mixed working fluids and coolants in central systems or individually filled machines. SMC + is free from formaldehyde releasers.

Corrosion protection (temporary)

RENOCLEAN VR 3222	Mildly alkaline, mineral oil-free, synthetic corrosion protection product for re-preservation of cleaned components made of steel, aluminum and non-ferrous metal. Usable as a builder in modular systems.
RENOCLEAN VR 2729 K	Mineral oil-free synthetic corrosion protection product for re-preservation of cleaned components made of steel and cast iron. Usable as a builder in modular systems.
ANTICORIT SKR 3001	Medium-alkaline, mineral oil-free synthetic corrosion protection product for re-preservation of cleaned components made of steel, aluminum and non-ferrous metal. Usable as a builder in modular systems.
ANTICORIT MKR 30	Mild alkaline, sprayable, mineral oil-based corrosion protection emulsion, free of boron compounds and monoethanolamine, suitable for the treatment of workpieces made of steel, aluminum and copper-based metals.

Other specialties

RENOCLEAN GSO 3001	Spray cleaner for cleaning of transport containers of any kind, but especially from plastics, to remove oil, dust, grease and dirt.
RENOCLEAN GTM 3001	Liquid drying accelerator with antistatic effect for faster drying of plastic and metal surfaces.
RENOCLEAN GXA 3004	All-purpose cleaner for maintenance of workshop equipment, workshop walls and workshop floors, manually and by machine.
RENOCLEAN 431	Lubricant for the assembly of rubber and elastomers free of solvents and mineral oil.
RENOCLEAN AKTIV DA	Highly effective demulsifier with additional defoaming effect is equally suitable for mineral oil based and synthetic emulsions and solutions.
RENOCLEAN VR 3052/1	Synthetic processing aid material, which is used for a variety of applications such as for the molding and welding of steel pipe, as a pressure medium, re-cooling liquid during induction hardening and comparable applications.
RENOCLEAN GXM 3001	Silicone oil-free, fast-acting defoamer, designed for aqueous RENOCLEAN cleaner.
RENOCLEAN HAND PROTECT, HAND WASH AND HAND CARE	Perfectly matched skin-protection, skin-cleaning and skin-care products. Available in tubes, and in the bag for also deliverable hand dispenser.

6 FORMING LUBRICANTS



RENOFORM

Neat Forming Lubricants	
RENOFORM UBO-SERIES, LVO-SERIES	Residue-free stamping oils. Mainly volatile at room temperatures. VOC-free formulations available.
RENOFORM MCO-SERIES, MBO-SERIES	Drawing compounds in particular for automotive industry.
RENOFORM MBO 369/2, EMO-SERIES	Cold extrusion oils.
RENOFORM MBO 369 UNI, EYO-SERIES	Multifunctional cold extrusion oils, for extrusion as well as slideway-oil.
RENOFORM DMO-, FMO-, HBO-, ZSB-SERIES	Neat oils for drawing, stamping and fine blanking.
RENOFORM FSO-, MBO-SERIES	Synthetic mineral oil-free drawing compounds.
RENOFORM WO-SERIES	Cold rolling oils for all applications.
RENOFORM MBO 2907-, HMO-SERIES, MBO 2755 SD	Lubricants for hydroforming.
Water-miscible Forming Lubricants	
RENOFORM TYM-, MCU-SERIES	Emulsifiable compounds. In particular for copper wire drawing.
RENOFORM MBW-SERIES	Emulsifiable drawing compounds. Suitable for steel and non-ferrous metals.
RENOFORM TRENOIL-, WN-SERIES	Emulsifiable cold rolling oils. Suitable for steel and non-ferrous metals.
RENOFORM DSW-SERIES	Synthetic drawing compound. Suitable for steel and non-ferrous metals.
Pasty Forming Lubricants	
RENOFORM SB 2, MF 9	Watermiscible drawing paste, pigment free.
RENOFORM HAP 801/6, HBT 581/3	Drawing paste, containing solid lubricants for difficult forming operations.

7_CORROSION PROTECTION



ANTICORIT

Corrosion Protection Oils

ANTICORIT RPO-SERIES	Modern corrosion protection oils of different viscosities for universal use.
ANTICORIT RP 30NT	Conventional corrosion protection oil for steel strip surfaces.
ANTICORIT RP 4107-SERIES	Thixotropic, barium-free corrosion protection oils for all coiled surfaces. Outstanding protection even under extreme climatic conditions. Optimum washability even after ageing. Standard body panel protection oil used by the German steel industry.

Prelubes / Hotmelts

ANTICORIT PL 3802-SERIES	Prelubes, which combine the excellent corrosion protection properties of the ANTICORIT RP 4107 series with outstanding forming performance on all cold rolled panels. Panels coated with prelubes prior to dispatch from steel mills can undergo difficult pressing operations without additional lubrication. VDA approved.
ANTICORIT PLS 100T	Thixotropic 2nd generation prelube with further improved deep drawing properties and excellent corrosion protection. Very good compatibility with down stream processes. Fulfills requirements of VDA 230-213.
ANTICORIT PL 39 SX	Hotmelt product which forms a solid film on metal surfaces. Coils or stacks coated with this product can be pressed without additional lubricants. Fully compatible with other ANTICORIT corrosion preventives and RENOFORM drawing compounds. Also suitable as a supplementary pressing lubricant.

Dewatering-Fluids

ANTICORIT DFO-SERIES DFW-SERIES	Dewatering fluids for rapid water displacement. Forming thin, highly effective oily, waxy corrosion protection films. Also available in VOC-free formulation acc. 31. BImSchV @ 20°C.
ANTICORIT DF SERIES	Dewatering fluid without film forming components for stain-free drying and maintaining dewatering fluids in use.

Water-miscible Corrosion Preventives

ANTICORIT MBR	Water-miscible corrosion preventive for the protection and dark staining of small components.
ANTICORIT MKR-SERIES	Water-miscible corrosion preventives for the cleaning and interim protection of semifinished components, phosphated parts and for parts which come into contact with drinking water. Also a hydraulic water and cooling additive.
ANTICORIT S-/SKR-SERIES	Water-soluble, mineral oil-free and low-foaming hydraulic water and coolant additives.



ANTICORIT

Vapor Phase Corrosion Protection (VCI)

ANTICORIT VCI UNI S-SERIES	VCI powder, packed into permeable paper bags which are simply placed inside the packaging. Suitable for many kinds of metal and metal-combinations.
ANTICORIT VCI UNI T-SERIES	VCI tablets, easy to use and perfect for intermediate storage. Suitable for many kinds of metal and metal-combinations.
ANTICORIT VCI UNI O-SERIES	Mineral oil with VCI properties. Suitable for many kinds of metal and metal-combinations. Perfect for the corrosion protection of engines, gear boxes, tanks and pumps.
ANTICORIT VCI UNI IP-SERIES	VCI fluids. Perfect combination of liquid VCI with odour-free solvent. Suitable for many kinds of metal and metal-combinations. Especially applicable for the corrosion protections of transport packaging.
ANTICORIT VCI UNI W-SERIES	VCI fluids for use with water-based products like cleaner or as an additive in cooling systems. Suitable for many kinds of metal and metal-combinations.

Special Corrosion Preventives

ANTICORIT 04 W / TX 10-A / TX 11 KL 7 / OHK-F / LSB	The complete corrosion protection program for roller bearings. Offer long-term protection. Compatible with all common subsequently applied lubricants and greases.
ANTICORIT TX 8R / DW THIX R2 / LBO-SERIES	Optimum chain and rope protection. Excellent wear protection when components are used for the first time. Compatible with common subsequently applied lubricants. Also recommended for conveyor belt chains.
ANTICORIT DFG	Penetrating oil spray with good lubricating properties.
ANTICORIT SPO-SERIES	Skin-pass fluid with enhanced corrosion protection.
ANTICORIT BGI-SERIES	High Performance corrosion prevention oil containing VCI. Offers reliable long-term corrosion protection for bearings, gearboxes, etc.
ANTICORIT BW, HKW-SERIES	Corrosion protection fluids which form thick, waxy and dry films for outdoor and long-term protection. Can also be used for underfloor and cavity protection.

Special Corrosion Preventives

ANTICORIT BML 3	Mineral oil-free corrosion preventive for brake components and systems. Compatible with brake fluids.
ANTICORIT CPX® TECHNOLOGIE	Full Solid wax conservation, free of solvent and water. Fulfils the VOC guideline acc. 31. BImSchV. Adjusted for cold application with standard spraying application. Used for cavity protection with long time corrosion protection and as closedown conservation for tools and dies.

7_CORROSION PROTECTION



ANTICORIT

Corrosion Protection Concentrates

**ANTICORIT
RPC 5000**

Corrosion protection concentrate for the protection of all metals. Excellent fingerprint remover properties. Suitable for the corrosion prevention in industrial washing machines. Soluble in white spirit and isoparaffins.

**ANTICORIT
04-SERIES**

Barium-free corrosion protection concentrates with outstanding corrosion protection properties for a lot of applications, especially for the bearing industry.

Solvent and Solvent Based Products

**ANTICORIT
A-SERIES**

Low-aromatic solvents and thinners for ANTICORIT products. Also available in VOC-free versions.

**ANTICORIT
1449 IP**

Isoparaffin solvent and thinner for ANTICORIT products.

**ANTICORIT
RPS-SERIES**

Modern corrosion protection products based on solvents. Forming a thin and highly effective oil film. Available in different formulations.

PRODUCT BROCHURES

AUTOMOTIVE

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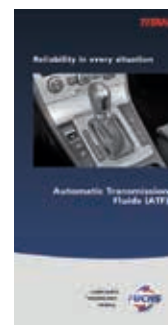
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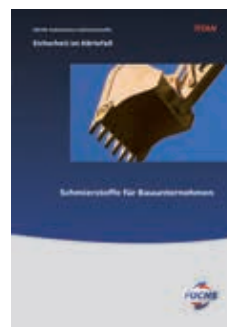
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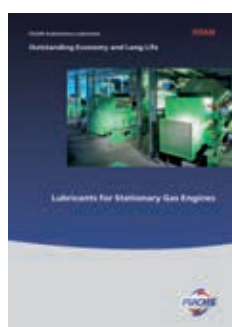
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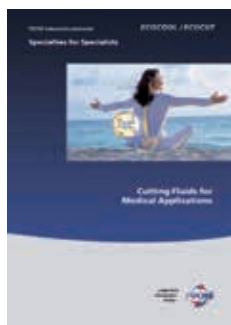
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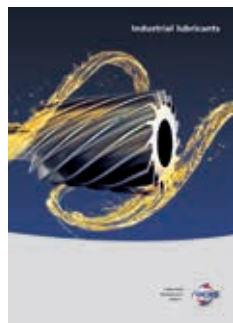
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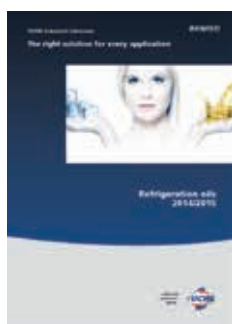
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Contact:



FUCHS SCHMIERSTOFFE GMBH

Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: 0621 3701-0
Fax: 0621 3701-570
E-mail: zentrale@fuchs-schmierstoffe.de
www.fuchs-schmierstoffe.de

Export Division
Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: +49 621 3701-1703
Fax: +49 621 3701-7719
E-mail: export@fuchs-schmierstoffe.de
www.fuchs-schmierstoffe.com