

Lubricants for Construction Companies



MOVING YOUR WORLD



FUCHS LUBRICANTS GERMANY

We don't just develop lubricants. For highly complex challenges in a wide range of industries, we develop innovative lubricant solutions that enable the mobility of tomorrow. Our goal: to keep our customers' world in motion. Efficient, sustainable, reliable. Today and tomorrow.

What can we move for you?

FUCHS LUBRICANTS GERMANY

Facts and figures

Company: FUCHS LUBRICANTS GERMANY GmbH,
a company of the FUCHS Group

Headquarters: Based in Mannheim, with sites in Dohna, Kaiserslautern, Kiel and Wedel; approx. 1,400 specialists

Product range: A full range of more than 3,000 products for all application areas

Certifications: ISO 9001, IATF 16949, ISO 14001, ISO 45001, ISO 50001, ISO 21469, HALAL, KOSHER

(detailed certifications at www.fuchs.com/de)

CO₂ neutral production*

FUCHS LUBRICANTS GERMANY is a subsidiary of FUCHS SE, the world's largest independent supplier of lubricant solutions. Around 1,400 specialists at the headquarters in Mannheim and the sites in Kaiserslautern, Wedel, Kiel and Dohna work with dedication on innovative lubricant solutions that enable the mobility of tomorrow.

The high level of technical consulting expertise combined with the largest, nationwide network of its own technical contacts makes FUCHS LUBRICANTS GERMANY a reliable local partner. A comprehensive product range, supplemented by digital offerings and Smart Services, as well as many years of lubricant expertise and a high level of research competence are the foundations for the innovative FUCHS lubricant solutions. They reduce wear and energy requirements, extend the running times and service life of machines, and thus keep the world moving - from industrial motors and e-cars to wind turbines and washing machines. FUCHS LUBRICANTS GERMANY is certified according to a wide range of standards and, as a technology leader and development partner, places the highest demands on quality management.



Customers in all industries benefit from this quality management: automotive suppliers and OEM, mechanical engineering, metal processing, mining and exploration, aerospace, energy, construction and transport, agriculture and forestry, as well as the paper, steel, metal, cement, forging and food industries, but also qualified lubricant dealers, car dealerships and workshops

MOVING YOUR WORLD

*Partially also based on compensation

Engine Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Engine Oils				
TITAN CARGO MAXX II 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 E11, E8, E7, E4 API CK-4/CJ-4 CAT ECF-3 JASO DH-1/DH-2/DL-0	CUMMINS CES 20081 CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC IV-18 LA DTFR 15C100 (MB 228.31) DTFR 15C110 (MB 228.51) DTFR 15C120 (MB 228.52) MACK EOS-4.5 MAN M 3677 MAN M 3775 MAN M 3777 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 SCANIA LDF-4 VOLVO VDS-4.5	ACEA E9, E6 DETROIT DIESEL 93K218 IVECO 18-1804 CLASSE TLS E6 LIEBHERR LH-00-ENG LA MAN M 3271-1 MAN M 3477 MAN M 3575 RENAULT RLD-4 SCANIA LA
TITAN CARGO MAXX SAE 10W-30	Premium MAXX Performance Engine Oil specially developed for vehicles with modern exhaust after treatment and turbocharger. Good cold starting properties and excellent ageing stability for fuel-economy over the whole drain-interval.	ACEA E11, E7 API CK-4/SN CAT ECF-3	DEUTZ DQC IV-18 LA DTFR 15C100 (MB 228.31) DTFR 15C110 (MB 228.51) MACK EOS-4.5 MAN M 3677 MB-APPROVAL 228.31 MB-APPROVAL 228.51 MTU DDC TYPE 3.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9, E6 CUMMINS CES 20086 DETROIT DIESEL 93K218 DETROIT DIESEL 93K222 JASO DH-2 MAN M 3477 RENAULT RLD-4 SCANIA LA
TITAN CARGO MAXX II 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 E11, E8, E7, E4 API CK-4/CJ-4 CAT ECF-3 JASO DH-1/DH-2/DL-0	CUMMINS CES 20081 CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC IV-18 LA DTFR 15C100 (MB 228.31) DTFR 15C110 (MB 228.51) DTFR 15C120 (MB 228.52) MACK EOS-4.5 MAN M 3775 MTU DDC TYPE 2.1 MTU DDC TYPE 3.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9, E6 DETROIT DIESEL 93K218 IVECO 18-1804 CLASSE TLS E9 IVECO 18-1809 CLASSE NG2 LIEBHERR LH-00-ENG LA MAN M 3271-1 MAN M 3477 MAN M 3575 RENAULT RLD-4 SCANIA LA VOITH-RETARDER „B“
TITAN CARGO FLEX K-4 SAE 5W-30	Premium Performance, extreme fuel-economy engine oil, specially developed for commercial vehicles with modern exhaust after treatment systems and turbocharger. Offers good cold starting and lower oil consumption.	ACEA E11, E8, E7 API CK-4 CAT ECF-3 JASO DH-2	DEUTZ DQC IV-18 LA DTFR 15C110 (MB 228.51) MACK EOS-4.5 RENAULT RLD-3 VOLVO VDS 4.5	ACEA E9, E6 CUMMINS CES 20086 DETROIT DIESEL 93K222 IVECO 18-1804 TLS E9

LOWER OPERATING COSTS, HIGHER MACHINE AVAILABILITY.

Lubricant is not always the same Lubricant: With the high performance lubricants from FUCHS, you can rely on highest reliability at all temperatures, lower oil consumption, significant fuel savings and specifically extended oil change intervals. The advantage is obvious: where the engine or gearbox runs more smoothly and reliably, operating costs are reduced and the availability increased.

Challenge us.

Engine Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Engine Oils				
TITAN CARGO LD3 EVO SAE 10W-40	Premium Performance, fuel-economy engine oil for use in Scania Euro VI vehicles. Specially developed for extended service intervals.	ACEA E7, E4	DEUTZ DQC IV-18 DTFR 15B120 (MB 228.5) MACK EO-N MAN M 3277 MTU DDC TYPE 3 RENAULT RLD-2 SCANIA LDF-3 VOLVO VDS-3	API CF CUMMINS CES 20077 DAF Extended Drain Interval SCANIA LDF-2
TITAN CARGO SAE 5W-40	Premium Performance, fuel-economy engine oil, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.	ACEA E11 API CK-4/CJ-4/SN CAT ECF-3	CUMMINS CES 20086 DEUTZ DQC III-18 LA DTFR 15C100 (MB 228.31) FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9 DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
TITAN CARGO SAE 10W-30	Premium Performance, fuel-economy engine oil, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.	ACEA E11, E7 API CK-4/CJ-4 CAT ECF-3 JASO DH-2	CUMMINS CES 20086 DEUTZ DQC III-18 LA DTFR 15C100 (MB 228.31) FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9 DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
TITAN CARGO SAE 10W-40	Premium Performance, fuel-economy engine oil, specially developed for commercial vehicle diesel engines with extended service intervals, exhaust after treatment and turbocharger.	ACEA E11, E7 API CK-4/CJ-4/SN CAT ECF-3 JASO DH-2	DEUTZ DQC III-18 LA DTFR 15C100 (MB 228.31) MACK EOS-4.5 MAN M 3775 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9 CUMMINS CES 20086 CNH MAT 3571 DETROIT DIESEL 93K222 MAN M 3575 RENAULT RLD-4
TITAN CARGO SAE 15W-40	Premium Performance, fuel-economy engine oil for a variety of commercial vehicle diesel engines. Specially developed for vehicles with extended service intervals, exhaust after treatment and turbocharger.	ACEA E11, E7 API CK-4/CJ-4/SN CAT ECF-3 JASO DH-2	ALLISON TES-439 (439-34862020) CUMMINS CES 20086 DETROIT DIESEL 93K222 DEUTZ DQC III-18 LA DTFR 15C100 (MB 228.31) FORD M2C171-F1 MACK EOS-4.5 MAN M 3775 MTU DDC TYPE 2.1 RENAULT RLD-3 VOLVO VDS-4.5	ACEA E9 MAN M 3575 RENAULT RLD-4
TITAN TRUCK PLUS SAE 15W-40 <small>Advanced Circular Technologies</small>	Ultra High Performance engine oil based on the sustainable FUCHS Advanced Circular Technology (ACT) for a variety of diesel and petrol engines. Specially for highly loaded commercial vehicle diesel engines. Low oil consumption.	ACEA E7 API CI-4/SL GLOBAL DHD-1 JASO DH-1 CAT ECF-1a / ECF-2	CUMMINS CES 20076/7/8 DEUTZ DQC III-18 MACK EO-N DETROIT DIESEL 93K215 DTFR 15B110 (MB 228.3) MTU DDC TYPE 2 RENAULT RLD/RLD-2 VOLVO VDS-3	ALLISON C-4 CAT TO-2 CUMMINS CES 20071/2 IVECO 18-1804 CLASSE T2 E7 MAN M 3275-1

Engine Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Monograde Engine Oils				
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.	–	ZF TE-ML 03B (ZF002013)	ACEA E2 API CF-4/SG MAN 270 MIL-L-2104 D ALLISON C-4 CAT TO-2 MB 228.0 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.	–	MB-APPROVAL 235.27 VOITH-RETARDER "A"	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 MB 228.0 ZF TE-ML 02C
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.	–	DEUTZ DQC I-02 MTU DDC TYPE 2 ZF TE-ML 04B (ZF001189)	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 MB 228.2 ZF TE-ML 02C
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.	–	DEUTZ DQC I-02 MTU DDC TYPE 2 ZF TE-ML 04B (ZF001190)	ACEA E2 API CF-2/CF-4/SG DTFR 13B120 MB 228.2 MB 235.12 MIL-L-2104 D ALLISON C-4 CAT TO-2 MAN 270 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.	–	DEUTZ DQC I-02 MAN M 3275-2	ACEA E2 API CF-4/SG MIL-L-2104 D ALLISON C-4 CAT TO-2 MB 228.0 ZF TE-ML 02C



Gear Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Transmission and Gear Oils				
TITAN SUPERGEAR MC SAE 80W-90	Ultra High Performance Gear Oil based on MC-Synthesis for extended oil change intervals.	API GL-4/GL-5	DTFR 12B100 (MB 235.0) EvoBus 26.000-032 EvoBus 26.000-034 MAN 341 TYPE Z2 MAN 342 TYPE M2 SCANIA STO 1:0 SCANIA STO 1:1 G ZF TE-ML 02B, 05A, 12L, 12M, 16B, 17H, 19B, 21A (ZF000722)	API MT-1 CASE MS 1316 FORD WSP-M2C 197-A JOHN DEERE JDM J11E MAN M 3343 TYPE M MAN 341 TYPE E2 NH 520A SDFG OP 1705 STEYR B-101 VOLVO 97310 ZF TE-ML 07, 08
TITAN SUPERGEAR MC SAE 80W-140	Ultra High Performance Gear Oil based on MC-Synthesis for extended oil change intervals.	–	ZF TE-ML 05A, 12M, 16C, 21A (ZF006028)	API GL-4/GL-5 API MT-1 JOHN DEERE JDM J11E OPEL 19 42 386 RENAULT VI SCANIA STO 1:0 VOLVO 97310 ZF TE-ML 08
TITAN SUPERGEAR LS SAE 80W-90	High Performance LS (Limited Slip) hypoid gear oil for axles with or without limited slip differentials.	API GL-5 SAE J306: 80W-90	ZF TE-ML 05N, 21N (ZF008289)	MIL-L-2105 D FORD M2C 104-A JOHN DEERE JDM J11F NH 520B VOLVO 97310 VOLVO 97321 ZF TE-ML 05C
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	DTFR 13B100 MB-APPROVAL 235.14 ZF TE-ML 17A (ZF000654)	BMW MTF 1 (BMW 81 22 2 339 384) BMW 81 22 9 407 052 BMW 81 22 9 407 053 FORD M2C9008-A MB 235.1 VW TL 726 ZF TE-ML 08
TITAN GEAR MP SAE 90	High Performance Gear Oil for synchronized and non-synchronized manual gearboxes as well as auxiliary drives, axles and differentials in commercial vehicles and passenger cars.	API GL-4	–	MAN 341 TYPE E1, Z1 MB 235.1 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 SAE J306: 85W-90	DTFR 12B100 (MB 235.0) ZF TE-ML 16C, 17B, 19B, 21A (ZF000656)	FORD SR-M2C9102-A JOHN DEERE JDM J11E MAN 342 TYPE M1 OPEL 19 42 387 VOLVO 97310 VW TL 727 ZF TE-ML 07, 08

Gear Oils

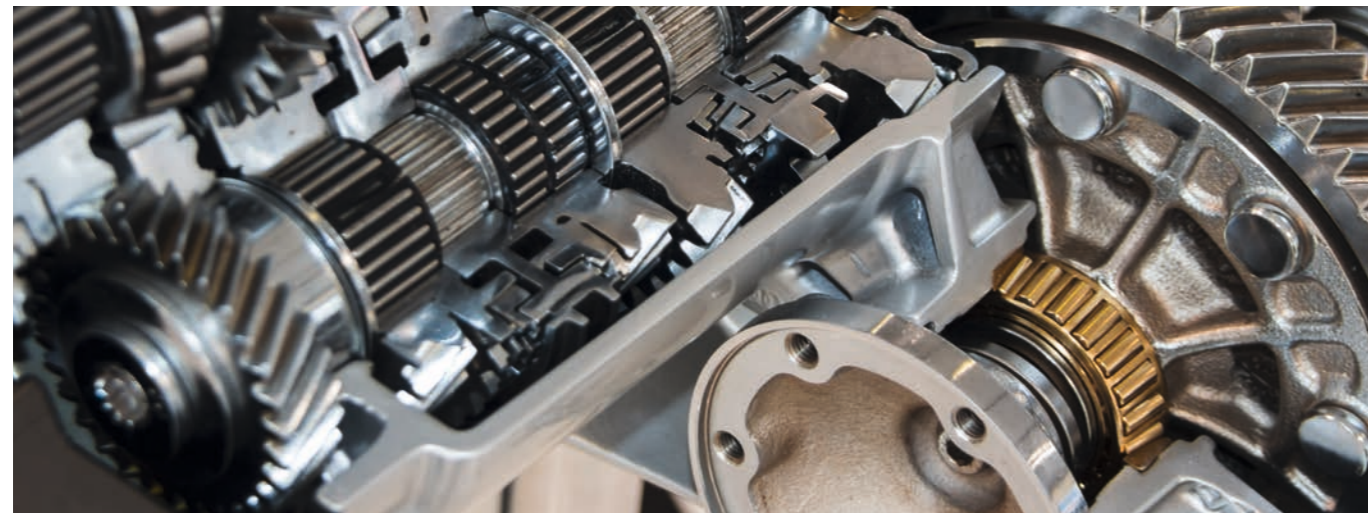
TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Transmission and Gear Oils				
TITAN CYTRAC TD SAE 75W-90	Premium Performance Gear Oil for highly-stressed manual transmissions and hypoid axles in commercial vehicles formulated with fully-synthetic base oils. Developed for the longest oil change intervals.	API GL-4/GL-5 API MT-1 SAE J2360	DETROIT DIESEL 93K219.01 MAN 341 TYPE Z2 MAN 342 TYPE S1 MB-APPROVAL 235.8 MERITOR O-76-E SCANIA STO 1:0 SCANIA STO 1:1 G SCANIA STO 2:0 A FS VOLVO 97312 ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF003341)	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MAN 341 TYPE E3 MAN 342 TYPE M3
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	MAN 342 TYPE S1 SCANIA STO 1:0	JOHN DEERE JDM J11E JOHN DEERE JDM J11G MB 235.8 VOLVO 97312 ZF TE-ML 05B, 07, 08, 12B, 16F, 17B
TITAN CYTRAC ULTRA SYNTH SAE 75W-80	Premium Performance Gear Oil for gear boxes in commercial vehicles, especially developed for ZF heavy duty transmissions with and without Intarder. Reduces fuel consumption by improving gearbox efficiency. Suitable for longest oil change intervals.	API GL-4 VOLVO 97307	EvoBus 26.000-030 MAN 341 TYPE Z5 ZF TE-ML 01E, 02E, 16P (ZF008388)	IVECO 18-1807 MGS2 MAN 341 TYPE VR MB 235.29 MB 235.41 VOITH-RETARDER „C“
TITAN CYTRAC MAT SAE 75W-80	Premium Performance Gear Oil for gear boxes in commercial vehicles, specially developed for manual and automatic ZF-gear boxes, formulated with selected base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals and compatible with Carbon-Synchronizers.	API GL-4	MAN 341 TYPE Z4 ZF TE-ML 01L, 02L, 16K (ZF003373)	IVECO 18-1807 CLASSE MGS1 MAN 341 TYPE E3 MAN 341 TYPE Z3 MAN 341 TYPE Z5 VOLVO 97305 VOLVO 97307 ZF TE-ML 01E, 02D, 02E, 08, 16P
TITAN CYTRAC HSY SAE 75W-90	Premium Performance Gear Oil for commercial vehicle manual transmissions and axle drives formulated with fully-synthetic base oils.	API GL-4/GL-5	ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF000642)	MAN 341 TYPE E3 MAN 341 TYPE Z2 MAN 342 TYPE M3 MAN M 3343 TYPE S JOHN DEERE JDM J11E JOHN DEERE JDM J11G SCANIA STO 1:0 ZF TE-ML 05B, 07, 21B
TITAN GEAR HYP LD SAE 80W-90	High Performance Gear Oil specially developed for Mercedes-Benz commercial vehicles. Offering enhanced thermal stability and fuel-economy potential.	API GL-5 API MT-1 SAE J2360	DETROIT DIESEL 93K219.02 DTFR 12B110 EvoBus 26.000-032 EvoBus 26.000-034 JOHN DEERE JDM J11E MAN 342 TYPE M3 MB-APPROVAL 235.20 SCANIA STO 1:0 VOLVO 97321 ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B, 21A (ZF000645)	MIL-PRF-2105 E ARVIN MERITOR O-76-D MACK GO-J ZF TE-ML 07A

Gear Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Automatic Transmission Fluids (ATF)				
TITAN ATF 5500	Premium Performance ATF for automatic transmission in motor vehicles. Outstanding base oil quality for optimal cold temperature properties and high ageing stability. Durable friction properties for excellent wet clutch performance. Product dyeing: none.	–	EvoBus 27.000-017 MAN 339 TYPE V1 MAN 339 TYPE V2 MAN 339 TYPE V3 MAN 339 TYPE Z3 MAN 339 TYPE Z12 MB-APPROVAL 236.9 VOITH 150.014524.xx VOLVO 97341 ZF TE-ML 04D, 14C, 16M, 16S, 20C, 25C (ZF001797)	DEXRON III (H) ALLISON TES 295 ALLISON TES 389 IVECO 18-1807 CLASSE AG3/I MAN 339 TYPE Z4 VOITH H55.6336.xx
TITAN ATF 5668	Premium Performance ATF especially developed for highly stressed ALLISON step automatic transmissions in commercial vehicles. Product dyeing: red.	–	ALLISON TES 668@ MB-APPROVAL 236.91 MB-APPROVAL 236.92	ALLISON TES 295 ALLISON TES 389 VOLVO 97340 VOLVO 97341
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.	–	DEXRON III (H) DTFR 13C100 (MB 236.1) MAN 339 TYPE L1 MAN 339 TYPE V1 MAN 339 TYPE Z1 MB-APPROVAL 236.1 MB-APPROVAL 236.9 VOITH H55.6335.xx VOLVO 97341 ZF TE-ML 04D, 14A (ZF000728)	ALLISON C-4 ALLISON TES 389 BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 81 22 9 407 738 BMW 83 22 0 403 248 BMW 83 22 9 407 765 BMW 83 22 9 407 858 BMW 83 22 9 407 859 CAT TO-2 FORD MERCON OPEL 19 40 707 OPEL 19 40 767 VOLVO 97340 VW TL 521 62 (G 052 162) ZF TE-ML 02F, 03D, 09, 11B, 17C



Multifunctional Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
UTTO Oils for Construction Machinery				
TITAN UTTO PRO 102	Premium Performance Multifunctional Oil for gears, axles and hydraulic systems with improved wear protection and wide range of application temperatures. Specially developed and approved for VOLVO axles with built-in wet brakes in construction machinery.	API GL-4 SAE J306: 75W-75	VOLVO WB 102	ALLISON C-4 CASE MS 1207/1209/1210 CATERPILLAR TO-2 FORD M2C86-C FORD ESN-M2C134-D JOHN DEERE JDM J20C JOHN DEERE JDM J20D KOMATSU AXO 80 (KES 07.866) KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1145, 1143, 1135 VOLVO WB 101 ZF TE-ML 03E, 05F, 06K, 17E, 21F SAE J300: 0W-20
TITAN UTTO WB	Ultra High Performance Multifunctional Oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for construction and agricultural machinery.	–	VOLVO WB 101 ZF-TE ML 03E, 03F, 05F, 06K (ZF004829)	AGCO Q-1826 (Whitefarm), Powerfluid 821 XL ALLISON C-4 API GL-4 CASE MS 1210, 1209, 1207, 1206, 1205, 1204 CATERPILLAR TO-2 CNH MAT 3505, 3506, 3525 FNHA-2-C-201.00 FORD ESN M2C41-B, M2C53-B, M2C92-A, M2C134-D JOHN DEERE JDM J20C JOHN DEERE JDM J20D KUBOTA UDT FLUID MASSEY FERGUSSON CMS M 1145, 1143, 1141, 1135 SAE J300: 10W-30 ZF TE-ML 03L
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, ESN-M2C134-D JOHN DEERE JDM J20C JOHN DEERE JDM J20D JOHN DEERE JDM J14 KOMATSU KES 07.866 KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1143, 1135 STEYR 397.88.0001 VOLVO WB 101
TITAN UTTO ZF	High Performance Gear Oil for ZF axles with limited-slip differentials. Recommended for construction machinery and material-handling vehicles axles.	API GL-4	ZF TE-ML 05F, 06K, 17E, 21F (ZF000661)	VOLVO WB 101 ZF TE-ML 03E
TITAN UTTO TO-4 SAE 10W	High Performance multifunctional lubricant for hydraulics in construction machinery.	API GL-4 CAT TO-4	ZF TE-ML 03C (ZF002186)	ALLISON C-4 KOMATSU KES 07.868.1
TITAN UTTO TO-4 SAE 30	High Performance multifunctional transmission lubricant for construction machinery.	API GL-4 CAT TO-4	ZF TE-ML 03C, 07F (ZF002185)	ALLISON C-4 ALLISON TES-439 KOMATSU KES 07.868.1
TITAN UTTO TO-4 SAE 50	High Performance multifunctional lubricant for final drives in construction machinery.	API GL-4 CAT TO-4	–	KOMATSU KES 07.868.1

Hydraulic Oils

TITAN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Multigrade Hydraulic Oils				
TITAN HYD MR 530 MC	Ultra High Performance multigrade hydraulic oil for construction machinery as well as diverse motor vehicle applications.	DIN 51524-3: HVLPD (Exception: Demulsifying behaviour according to DIN ISO 6614) HVLPD covers SAE 5W to 30 or ISO VG 32 to 68 (100)	–	–
TITAN HYD 1030	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
Central Hydraulic/Power Steering Fluids				
TITAN CHF 115	Premium Performance Power Steering and Central Hydraulic Fluid with a wide application and approval profile for various manufacturers. Product dyeing: green.	FORD WSS-M2C204-A	CHRYSLER MS-11655B DTRF 31B120 (MB 345.0) EvoBus 39.060-001 MAN M 3289 MB-APPROVAL 345.0 PSA S71 2710 ZF TE-ML 02K (ZF004744) VW TL 52 146 (G 002 000)	BENTLEY JNV862564F BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 FENDT X 902 011 622 IVECO 18-1807 CLASSE APU OPEL B 040 0070 PORSCHE 000 043 203 33 SAAB 3032 380 VOLVO 1161529

Hydraulic Oils

RENOLIN

Product name	Description	Density at 15 °C kg/m ³	Flash point Clev. °C	Kin. visc. at 40 °C mm ² /s	Kin. visc. at 100 °C mm ² /s	VI	Pour-point °C	Main application area	
Zinc-containing Hydraulic Oils									
RENOLIN B 10 PLUS	Range RENOLIN B PLUS Lubrication an hydraulic oils, based on high-quality, hydrated base oils (Group II). Contains additives for excellent ageing and oxidation stability, the zinc-containing AW/EP additive system protects against wear at high pressure and load. Extended oil drain intervals are possible. Hydraulic oils according to DIN 51524-2: HLP and ISO 6743-4: HM	840	170	10	2.7	104	-54	Suitable for all hydraulic systems especially if an approval according to Bosch Rexroth RDE 90235/RDE 90245 is required. Group II base oil (Hydrogenated base oils), for HP-high-pressure application. Demulsifying type Approvals: Denison HF0, HF1, HF2 Bosch Rexroth RDE 90245	
RENOLIN B 15 PLUS		840	195	15	3.5	108	-48		
RENOLIN B 22 PLUS		845	220	22	4.4	108	-45		
RENOLIN B 32 PLUS		862	220	32	5.5	108	-39		
RENOLIN B 46 PLUS		865	230	46	6.94	107	-36		
RENOLIN B 68 PLUS		867	230	68	9.0	108	-33		
RENOLIN B 100 PLUS		870	270	100	11.6	104	-33		
RENOLIN B 10 HVI PLUS		Range RENOLIN B HVI Plus Hydraulic and lubricating oils based on highquality hydrated base oils (Group II). High viscosity index and excellent shear stability, in combination with extraordinaire oxidation stability, effects in long lifetime. High wear protection by using zinc-containing AW/EP additives, demulsifying. DIN 51524-3: HVLP ISO 6743-4: HV ISO 11158: HV Denison HF0, HF1, HF2	837	170	10	3.0	171		-63
RENOLIN B 15 HVI PLUS			844	190	15	3.8	148		-57
RENOLIN B 22 HVI PLUS			845	210	22	4.9	152		-48
RENOLIN B 32 HVI PLUS	846		230	32	6.3	151	-42		
RENOLIN B 46 HVI PLUS	856		240	46	8.2	152	-42		
RENOLIN B 68 HVI PLUS	854		260	66.5	10.8	153	-33		
RENOLIN B 100 HVI PLUS	867		260	102	14.0	140	-36		
RENOLIN B 150 HVI PLUS	876	260	151	18.0	132	-33			

Hydraulic Oils

RENOLIN

Product name	Description	Density at 15 °C kg/m ³	Flash point Clev. °C	Kin. visc. at 40 °C mm ² /s	Kin. visc. at 100 °C mm ² /s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN XtremeTemp 32	Range RENOLIN XtremeTemp Universal, high-performance hydraulic oils with high viscosity index and excellent shear stability (VI ≥ 180). Based on special hydrogenated base oils, very good ageing behaviour, long lifetime, excellent corrosion protection and very good zinc-containing wear protection for high pressure – good demulsifying properties. Fulfil and surpass: DIN 51524-3: HVLP ISO 6743-4: HV ISO 11158: HV	845	216	32	6.9	180	-45	Universal high-performance multigrade hydraulic oils for stationary and mobile hydraulic systems, improved efficiency, increasing oil change intervals. Multigrade characteristics through high, shear-stable viscosity index. Energy and fuel saving through high volumetric efficiency. Approvals: Denison HF0, HF1, HF2, Bosch Rexroth RD90235 and RDE90245
RENOLIN XtremeTemp 46		853	230	48	9.3	180	-42	
RENOLIN XtremeTemp 32 Plus	Range RENOLIN XtremeTemp Plus As RENOLIN XtremeTemp, but with additives which help to avoid stick-slip phenomena. For high-pressure applications; reduce friction especially in mixed friction conditions. DIN 51524-3: HVLP(D) ISO 6743-4: HV ISO 11158: HV	861	216	32	6.9	183	-33	
RENOLIN XtremeTemp 46 Plus		855	234	48	9.3	181	-34	Slightly detergent, HVLP (D) high performance multigrade hydraulic oils for stationary and mobile hydraulic systems surpass HVLPD according to DIN 51524-3, wide temperature window, excellent shear stability. Help to avoid stick-slip problems, especially at low speed and high load. Energy and fuel saving through high volumetric efficiency.
RENOLIN LIFT 22	Range RENOLIN LIFT Special detergent type of hydraulic oils for elevators, hydraulic conveyors and fork lifters. Reliably prevents stick-slip, especially at high loads and low speeds.	869	210	22	4.3	100	-30	Fork lifters, elevators, hydraulic transport mechanisms, stationary and mobile hydraulics. Protection against stick-slip.
RENOLIN LIFT 32		877	210	32	5.3	96	-30	
RENOLIN LIFT 46	Zinc-containing; fulfil and surpass requirements according to: DIN 51524-2: HLPD ISO 11158: HM ISO 6743-4: HM/HG	881	210	46	6.8	101	-27	

Hydraulic Oils

RENOLIN

Product name	Description	Density at 15 °C kg/m ³	Flash point Clev. °C	Kin. visc. at 40 °C mm ² /s	Kin. visc. at 100 °C mm ² /s	VI	Pour-point °C	Main application area
Zinc- and Ash-free Hydraulic Oils (ZAF)								
RENOLIN ZAF 32 MC	Range RENOLIN ZAF MC Lubricating and hydraulic oils based on group III base oils with selected additives. Very good oxidation and ageing stability, very good corrosion protection and high wear protection. High viscosity index (shear stable). Fulfil and surpass: DIN 51524-3: HVLP ISO 6743-4: HV DIN 51517-3: CLP ISO 6743-6: CKC DBL 6713: HLP, HVLP	840	220	32	6.3	149	-45	Shear stable, zinc- and ash-free hydraulic and circulating oils with high viscosity index. Based on MC hydrotreated group III base oils. Oil drain intervals might be extended and grades can be rationalized (multigrade characteristics). Energy saving through high efficiency. Denison HF0 approval Bosch Rexroth approval RDE 90245 and RD 90235
RENOLIN ZAF 46 MC		843	238	46	8.0	148	-45	
RENOLIN ZAF 68 MC		854	238	68	10.6	146	-42	
Fire-resistant Hydraulic Fluids								
RENOSAFE FireProtect 46	Range RENOSAFE FireProtect Water-free, fire-resistant hydraulic fluids based on latest ester and additive technology, type HFDU. Highest oxidation and thermal stability, excellent non-ferrous metal compatibility, hydrolytic stability, very robust and reliable wear protection. Multigrade characteristics by high, shear stable viscosity index. Biodegradable acc. to OECD 301 B >60 %. Surpass the requirements on HFDU oils acc. to ISO 12922.	920	316	50	10.1	195	-48	For the use as fire-resistant hydraulic oils based on organic esters. Type HFDU for all hydraulic applications in fire hazard areas or glowing metal surfaces such as in die-casting machines, steel mills, continuous casting machines, hot rolling mills, coking plants and other mobile and stationary hydraulic systems, excellent lifetime, excellent yellow metal compatibility. Approved for use in Voith T and TP couplings.
RENOSAFE FireProtect 68		932	316	70	12.9	187	-45	
Test Oils								
RENOLIN ANTI-STICK-SLIP	Universal anti-stick-slip additive	944	270	103	–	–	> -20	RENOLIN Anti-Stick-Slip has been used successfully in hydraulic systems of elevators, forklifts, agricultural machinery, platform lifts, hydraulic vibration dampers, etc. Recommended concentration: 2 %

Greases

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil visc. at 40 °C [mm ² /s]	Tempe- rature range [°C]	Approvals, FUCHS Recommendations	Main application area
Lubricating Greases / Pastes								
RENOLIT CA-LZ (Spray can: RENOLIT CA-LZ SPRAY)	KP2K-30 ISO-L-XC(F)CHB 2	Calcium Mineral oil	–	2	700	-30/ +120	–	Strongly adhesive, protects from wear even under extreme conditions, very resistant to water wash-out from metallic surfaces, long-term lubrication of passenger cars and commercial vehicles, construction industry, industrial and agricultural machines.
RENOLIT LZR 2 H	KP2N-30 ISO-L-XC(F)DIB 2	Li/Ca Mineral oil	–	2	230	-30/ +120	Baier & Köppel	Premium multipurpose grease, long-term rust prevention, sealing grease, central lubricating systems, sugar refineries, roof tile factories, paper industry, prevent standstill corrosion, hytel compatibel.
RENOLIT LX-PEP 2	KP2N-30 ISO-L-XC(F)DEB 2	Li-X Mineral oil	–	2	170	-30/ +150	MAN 284 Li-H2, MB Approval 265.1, ZF TE-ML 12, Schaeffler Gruppe, VW TL 52 147 X, Interprecise (IDC-Bearings), Deutsche Bahn	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.
RENOLIT POLAR BLACK	–	Lithium PAO	–	1 - 2	340	-50/ +140	–	Fully synthetic heavy duty allseason grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
RENOLIT PU-FH 300	KP2R-20	PU Mineral oil	–	2	500	-20/ +180	–	Lubricating points exposed to high thermal loads and bearings with slow sliding speeds (asphalt pavers).
RENOLIT CSX 15	–	CaSX Mineral oil	–	1 - 2	440	-20/ +180	A. Kahl Pelletpressen	Lubrication of high loaded, low speed plain and roller bearings and can be applied when the grease has to meet high demands on corrosion protection and working stability.; is easily pumpable even in long tubes fed by centralised lubrication systems. Typical applications are plain and roller bearings in steel mills, wood pellet presses, paper industry, mining, cement mills, quarries and construction equipment.

Greases

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil visc. at 40 °C [mm ² /s]	Tempe- rature range [°C]	Approvals, FUCHS Recommendations	Main application area
Lubricating Greases / Pastes								
RENOLIT MT 2	KP2K-30	PU/Ca Mineral oil	–	2	100	-30/ +130	–	RENOLIT MT 2 is ideally suited for the lubrication of plain and roller bearings in construction machinery subjected to severe operating conditions, for all lubrication points. Furthermore suitable for vibration, dry and wet screening, reprocessing units, construction, stone, earth industries, gravel quarries, stone quarries, and mobile recycling equipments.
RENOLIT LZR 000	GP00- 000G-40	Li/Ca Mineral oil	–	00- 000	43	-40/ +110	MB Approval 264.0, MAN 283 LI-P 00/000	Semi-fluid grease for central lubricating systems of commercial vehicles.
RENOLIT MP PLUS	KP2K-30 ISO-L-XC(F)CEB 2	Lithium Mineral oil	–	2	100	-30/ +120	–	High quality EP multipurpose grease with high adhesiveness for the lubrication of plain and roller bearings. Only available in SR-cartridges.
RENOLIT FEP 2	KP2N-20 ISO-L-XB(F)DEB 2	Lithium Mineral oil	–	2	220	-20/ +140	–	Steel mills, quarries, construction equipment and forging presses, machine tools.
RENOLIT FLM 2	KPF2N-30 ISO-L-XC(F)DEB 2	Lithium Mineral oil	MoS ₂ Graphit	2	100	-30/ +140	MAN 285 LI-PF 2	For mechanically loaded lubricating points, grease with MoS ₂ , agricultural machines, commercial vehicles, construction industry, quarries and mining, rubber and concrete factory.



Greases

RENOLIT | LAGERMEISTER | STABYL

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil visc. at 40 °C [mm ² /s]	Tempe- rature range [°C]	Approvals, FUCHS Recommendations	Main application area
Lubricating Greases / Pastes								
RENOLIT LX 2	–	Li-X Mineral oil	–	2	160	-30/ +160	ThyssenKrupp Rothe Erde	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles, machine tools.
RENOLIT LX EHD 2	–	Li-X Mineral oil	white solid lubricants	2	560	-30/ +140	–	Bright extreme heavy duty grease. Specially developed for mechanical high loaded lubrication points in construction and mining equipment.
RENOLIT PU-GU 2	KP2N-20	PU Mineral oil	–	2	196	-25/ +140	–	Very work stable EP-multi-purpose grease for lubrication of highly stressed lubrication points such as roller and plain bearings. All-round grease for agriculture and construction machines. Alternative to: Liebherr Special Grease 9610, Cat Utility Grease, Volvo Lubricating Grease 97720, JCB Special HP Grease.
LAGERMEISTER XXL	KP2P-20	PU Mineral oil	–	2	180	-20/ +160	FLSmidth MAAG Gear, KHD Humboldt Wedag International, Loesche, Sandvik, SMS Meer, Zeppelin Bau-maschinen	Ideally suited for the lubrication of highly-loaded plain and roller bearings on all kinds of construction machinery, especially under harsh operating conditions, high loads and increased temperatures. Allows reduced number of lubricants and increased regreasing intervals.
STABYL L-TS MO	KPF2N-30	Li Teilsynthetisch	MoS ₂	2	800	-30/ +140	KHD Humboldt Wedag International, Komatsu Mining Germany, Loesche, SMS Meer, ThyssenKrupp Rothe Erde	For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low speeds. Allows longer regreasing intervals when compared to conventional greases.
LAGERMEISTER WHS 2002	KPF1-2K-20	Lithium Mineral oil	white solid lubricants	1 - 2	320	-20/ +120	DB-Mat.-Nr. 685377 u. 685382, Terex Germany, Zeppelin Bau-maschinen	For plain and roller bearings operating under extreme conditions (dust, water, vibrations), e.g. conveyors, construction machines, raw material processing machines. For lubrication of plastic crosshead guides on telescopic cranes. Also available as fluid.

Greases

STABYL | CEPLATTYN | PLANTO | GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubri- cants	NLGI grade	Base oil visc. at 40 °C [mm ² /s]	Tempe- rature range [°C]	Approvals, FUCHS Recommendations	Main application area
Lubricating Greases / Pastes								
STABYL TA	KPF1-2N-40	Lithium Semi-synth. base oil	white solid lubricants	1 - 2	200	-40/ +140	–	STABYL TA is a semi-synthetic special grease based on lithium soap. Its special gliding properties are achieved by a combination of synergetically effective solid lubricants.
CEPLATTYN 300	–	Al-X Mineral oil	Graphit	1 - 2	1,300	-30/ +250	B-Mat.-Nr. 106169, Ferry Capitain, FLSmidth, Sinoma, Citic, CMD, Christian Pfeiffer, Sandvik, Gebr. Pfeiffer, KHD Humboldt Wedag International, Maschinenfabrik Gustav Eirich, ThyssenKrupp Industrial Solutions, RUD Ketten	Priming lubricant for large Open Gear drives, gear racks and sliding surfaces. It is also used as an assembly paste for screws/bolts and pins. It is also suitable for wire rope lubrication and preservation as well as in steel hydraulics construction for chains, sliding surfaces, and gear tooth systems. Dry lubrication up to +500 °C.
Greases for Plain and Roller Bearings								
PLANTOGEL ECO 2 S (Spray can: PLANTO MULTISPRAY S)	ISO-L-XD(L)CEB 2	Li/Ca Synth. Ester	–	2	105	-40/ +120	EU Ecolabel DE/027/273 	Rapidly biodegradable EP multipurpose grease for plain and roller bearing lubrication, e.g. water turbines or in agriculture and forestry. Good pumpability in central lube systems.
PLANTOGEL ECO 2 FS	–	Li/Ca Synth. Ester	white solid lubricants	2	195	-30/ +120	–	Rapidly biodegradable EP multipurpose grease with solid lubrications for lubrication of plain and roller bearings, e.g. commercial vehicles and construction machinery.
GLEITMO 840 CP	–	Li Synth. Ester	white solid lubricants	1 - 2	–	-30/ +180	EU ECOLABEL DE/027/288 	Biodegradable special paste for plug tools and wear bushings of hydraulic and pneumatic hammers. Forms a dry lubricating film that is resistant up to at least 1,100 °C. Also suitable as separating paste for highly stressed threads.

Service Products

TITAN | FRICOFIN

Product	Description	Specifications	Approvals	FUCHS Recommendations
Brake Fluids				
TITAN DOT 514 LV BluEV TECHNOLOGY	Premium Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, trucks and motorcycles.	FMVSS NR. 116 DOT 3/4/5.1 ISO 4925 CLASS 3/4/5-1/6/7 JIS K2233 CLASS 3/4/5/6 SAE J 1703/1704	–	BMW QV 34001 FORD M6C65-A2 FORD M6C62-A FORD M6C9103-A GM Europa GMW 3356 MB 331.0 PSA S71 2114 RENAULT 41-02-001/-H VW TL 766-X, 766-Y, 766-Z
Antifreezes				
FRICOFIN LD	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of nitrites, amines, phosphates and silicates with OAT-technology. Product dyeing: orange.	ASTM D3306 TYPE I ASTM D6210 TYPE I-FF GB 27943.1-2022 Tata Motors – Jaguar (STJLR.03.5212) VOLVO VCS-2	DEUTZ DQC CB-14	AS/NZS 2108.1-1997 CNH MAT 3624 CNH MAT 3724 CAT GCM34 CAT EC-1 Chevrolet GMW 3420 DAF 74002 DETROIT DIESEL DFS93K217 FORD WSS M97B44-D FIAT 9.55523 GM 6277M GMW 18270 GMW 3420 JOHN DEERE JDM H5 Kobelco Komatsu 07.892 (2017) Leyland Trucks DW03245403 MAN 324 Typ SNF Mahle – Behr MB 325.3 / DTFR 29C110 Mitsubishi MHI MTU MTL 5048 Perkins Isuzu - UD Trucks RTCS-2 SAAB B 04 01065 Santana Motors Skoda 61-0-0257 Yanmar UNE 26-361-88/1 VW TL 774-D/F (G12+)
FRICOFIN DP BluEV TECHNOLOGY	Premium Performance Coolant Concentrate based on monoethylene glycol. Free of nitrites, amines and phosphates with Si-OAT-technology. With BluEV Technology additionally applicable in hybrid and electrical vehicles of different manufacturers. Product dyeing: pink-violet.	AFNOR NF R 15-601 TYPE 1 AS/NZS 2108:2004 TYPE A ASTM D 3306 TYPE I ASTM D 4985 BS 6580:2010 CUNA NC 956-16 JIS K 2234:2006 SAE J814 SAE J1034 SANS 1251:2005 China GB 29743-2013 UNE 26-361-88	CUMMINS CES 14603 DETROIT DIESEL 93K217 DEUTZ DQC CC-14 DTFR 29C 120 (MB 325.5) MAN 324 TYPE Si-OAT MB-APPROVAL 325.6 MTU MTL 5048 VW TL 774-G (G12++) VOITH (172.00225040 – Type Si-OAT)	ASTM D 6210 TYPE I IVECO 18-1830 LIEBHERR LH-01-COL3A PN-C 40007:2000 SCANIA TB 1451 VW TL 774-J (G13)

Service Products/Industrial Oils

RENOLIN

Product name	Description	Density at 15 °C kg/m ³	Flash point Clev. °C	Kin. visc. at 40 °C mm ² /s	Kin. visc. at 100 °C mm ² /s	VI	Pour-point °C	Main application area
Kolben- und Vielzellenverdichteröle								
RENOLIN 503	Serie RENOLIN 500 Solventraffinate hoher Alterungsbeständigkeit mit „aschefreien“ Wirkstoffen zur Erhöhung der Alterungsbeständigkeit und des Korrosionsschutzes. Die Öle der Reihe RENOLIN 500 entsprechen der Schmierölgruppe VDL nach DIN 51506. Besteht auch im verlängerten Alterungstest verschärft durch Zugabe von Eisenoxid. TÜV-Gutachten liegt vor. 503: VDL 68 504: VDL 100 505: VDL 150	867	250	68	9,1	109	-18	Als hochalterungsbeständige Schmieröle mit sehr geringer Rückstandsbildung (Zunahme des Koksrückstandes nach der Alterung) und sehr geringem Koksrückstand des 20 Vol.-%igen Rückstand bei der Destillation, insbesondere für Luftverdichter mit Endtemperaturen bis 220 °C, auch für andere thermisch belastete Umlaufschmiersysteme.
RENOLIN 504		890	280	100	10,7	90	-21	
RENOLIN 505		883	275	150	15,0	100	-15	

Specialities

PLANTO

Product	Description	Specifications	Approvals	FUCHS Recommendations
Biodegradable Engine Oil				
PLANTO MOT SAE 10W-40	Low-ash diesel engine oil for modern diesel engines. Biodegradable and especially recommend for use with alternative diesel fuels.	–	DEUTZ DQC IV-18 LA	ACEA E9, E7, E6 API CK-4 CAT ECF-3 CUMMINS CES 20086 DETROIT DIESEL 93K222 JASO DH-2 MACK EOS-4.5 MAN M 3271-1 MAN M 3477 MB 228.51 MTU TYPE 3.1 RENAULT RLD-3/RLD-4 VOLVO VDS-4.5
Biodegradable Multifunctional Oil				
PLANTO HYTRAC PLUS	Biodegradable Premium Performance Multifunctional Oil (UTTO) for tractor gearboxes with or without wet brakes.	SAE 10W-30 SAE 80	–	CASE MS 1207, 1209 FORD M2C134-D JOHN DEERE JDM J20C NEW HOLLAND NH 410 B MASSEY FERGUSON CMS M1127, 1135, 1143 HLP/HVLP ISO VG 32, 46, 68, 100 according to DIN 51 524-2 /-3

Product name	Description	Density at 15 °C kg/m ³	Flash point Clev. °C	Kin. visc. at 40 °C mm ² /s	Kin. visc. at 100 °C mm ² /s	VI	Pour-point °C	Main application area
Umweltschonende Hydraulik- und Schmieröle								
PLANTOSYN 3268	Environmentally friendly, high temperature-stable HVI multigrade hydraulic oil based on fully saturated, synthetic ester (HEES), surpasses DIN ISO 15380, > 60 % rapidly biodegradable acc. to OECD 301 B. Awarded the EU Ecolabel (EEL).	913	290	46	8.2	154	-36	FUCHS recommendations: Bosch Rexroth AG, CAT BF-1, KRAMER ALLRAD, PALFINGER, SAUER DANFOS, TIMBERJACK, VALMET / KOMATSU FOREST, PONSSE Approvals: FENDT, O&K.
PLANTOSYN 3268 ECO	PLANTOSYN 3268 ECO is a rapidly biodegradable hydraulic fluid based on synthetic esters. PLANTOSYN 3268 ECO was especially developed for use in high risk areas / environmental high risk areas. Fulfills the minimum requirements on hydraulic oils HEES acc. to ISO 15380 and HVLP acc. to DIN 51524-3 (except TOST test). Awarded the EU Ecolabel (EEL)	920	300	47	9.5	191	-45	PLANTOSYN 3268 ECO is recommended for hydraulic systems in environmental high risk areas. Change-over guidelines acc. to ISO 15380 must be observed.

Specialities



Further biodegradable specialties can be found in the FUCHS PLANTO brochure.

Note

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS GERMANY GmbH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible.

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

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FUCHS LUBRICANTS GERMANY GMBH

Innovative lubricants need experienced application engineers

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

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