

TTECTROL

EVERYTHING
THAT MAKES
THE WORLD
GO ROUND.

Lubricants

Operating resources

Fluid management

Oil technology

Analysis

Environment

Service

Food

Product range



Content



Lubricant advisor

Use the TECTROL lubricant advisor to see custom TECTROL product recommendations for your vehicle or machine online.

The lubricant advisor is quick and easy to use. Choose your device from the categories cars, trucks, vans, buses, two-wheelers, agricultural machines, industrial machines, then find your exact model using the detailed search. The individual product recommendations offer the ideal conditions to run your machines and vehicles efficiently and effectively.

The TECTROL lubricant advisor ensures you are always professionally supplied and that everything runs like clockwork. Find your lubricant recommendation now online at:
www.tectrol.de/oelwegweiser

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01 What's inside TECTROL

Movement is life. Whenever things move, there is always friction and wear. Which is precisely why TECTROL offers an excellent portfolio of high-quality lubricants, inputs and services for use in trade, industry and agriculture. Maximum reliability and strict compliance with current technical standards for a wide range of requirements bring together innovation and sustainability.

TECTROL stands for sustainability: Ensuring a long service life for equipment by reducing wear and tear saves maintenance costs and protects the environment.

Our analysis team provides expert on-site assessment of all the test results for your machines and ensures optimum operation and maximum efficiency for all equipment. We are your expert partner for the use, maintenance and monitoring of high-quality lubricants and inputs.



Made in Germany

Our Made-in-Germany seal distinguishes all our products that are manufactured in Germany. They are subject to constant quality assurance.

We are:

Close and personal

In product management, in regional and central sales as well as with our sales partners, well over 100 specialists are available to you in Germany alone for expert advice in the field.

In addition, we have more than 20 employees in our Lubricant Centre and AdBlue® Centre to ensure your orders are processed reliably. TECTROL lubricants are also available at any time from many hundreds of locations (for example agricultural engineering workshops).

International

The quality of our products and our competent advice are appreciated by our customers beyond the borders of our home region. TECTROL is exported to over 20 countries worldwide.

High quality and diverse

We offer more than 850 products for a wide range of applications and high quality for your equipment. We continue to develop our product range according to the latest technical standards to meet the high demands of the market.

High performance for every industry.



 Agriculture and forestry



 Municipalities and recycling services



 Logistics



 CHP plants



 Industry



 Cars and workshops



 Construction and civil engineering



 Domestic

40 000

satisfied customers in 20 countries

55 Mio.

litres of lubricants and operating materials

690

products

Our figures – your success

Our broad range of services and high level of expertise are the foundation for your success.

100

personal sales representatives

24

product groups

8

target groups

The right solution for every application.



TECTROL METHAFLEXX
Gas engine oils

METHAFLEXX gas engine oils offer the best possible protection and allow long intervals between oil changes. Dangerous deposits are reduced. Already more than 4000 CHP engines with over 30 million operating hours per year run using our products.

TECTROL TERRA
Lubricants

Products that are environmentally safe, quickly biodegradable and technically sophisticated. They are in no way inferior to mineral products.




TECTROL
Multi-purpose oils

Our multi-purpose oils are unique in terms of the latest technical requirements and versatility. The oils ensure long oil change intervals in engines, transmissions and hydraulic systems.

TECTROL METALLUM
Cooling lubricants

Our water-miscible and non-water-miscible cooling lubricants for machining and grinding processes, as well as our forming lubricants and cutting oils increase the performance of your machine, maximise tool life, optimise surface quality and ensure high cutting performance.



TECTROL
re:source

To protect what keeps us going: our resources.

Re-refinates from TECTROL re:source



re:source

When recycling makes lubricants better

The service life of transmissions and machines depends on the right lubricants. The better the lubricant's performance, the longer the machines last. With the new re:source product line, we are also focusing on recycling. There are no compromises in performance, while conserving our resources even more.

Up to 90% CO₂ savings* with re:source products.

*LCA (ifeu 2022) based on ISO 14040/44, DEKRA certified

02 Technical information

Viscosity classes according to ISO and SAE in comparison

Different standards are used in practice to indicate the viscosity of oils. Industrial lubricants are usually designated according to the European ISO VG standard (= viscosity grade), where the numerical value indicates the average viscosity at 40 °C.

In contrast, the American SAE classes (SAE = Society of Automotive Engineers) have become established for automotive lubricants. Engine oils are classified from 0W (very low viscosity) to 60 (high viscosity). The number range 70W to 140 was established for transmission oils.

Using the following table, industrial lubricants and engine or transmission oils can be compared to each other and categorised according to their viscosity.

Industrial oils	Engine oils	Transmission oils
ISO-VG	SAE class	SAE class
5, 7, 10	0W	
15	5W	70W, 75W
22, 32	10W	
46	15W, 20W	80W
68	25W, 20	80W
100	30	85W
150	40	90
220	50	90
320	60	140
460		140
680, 1000, 1500		

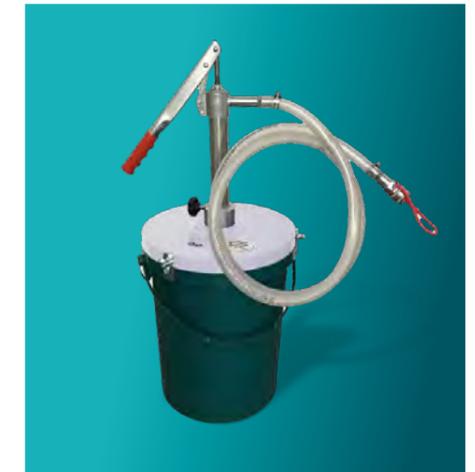
Tanks, measuring and filling equipment

Our range of tanks and pumps helps you store and pump your lubricants safely and in accordance with regulations. With our range of tanks and pumps, you are on the safe side.

Our product range includes the following:

- ✓ Stationary and mobile filling stations
- ✓ Storage tanks
- ✓ Measuring and filling equipment for fuel oil and diesel
- ✓ Measuring and filling equipment for AdBlue®
- ✓ Measuring and filling equipment for oil and grease
- ✓ Environmental technology
- ✓ Custom turnkey solutions for your needs

Grease filler



Storage tank



Grease gun



03 Multi-purpose oils

Our high-performance multi-purpose oils meet the requirements for use in agricultural and construction machinery. They are used for rationalisation of lubricant grades. UTTO stands for “Universal Tractor Transmission Oil” and is used in transmission, hydraulic and wet brake systems. STOU, “Super Tractor Oil Universal”, can also be used as an engine oil.



Multi-purpose oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SUPER MULTISYN PLUS SAE 10W-40 SAE 75W-90	Multi-purpose oil (STOU) based on state-of-the-art base oil synthesis technology and the latest generation of special additives for engines, manual transmissions, wet brake systems, hydraulics, turbo clutches in tractors and other agricultural machinery, construction machinery, commercial vehicles as well as for self-locking differentials and axle drives in work machines.	APPROVALS: Deutz DQC III-18 APPLICATION RECOMMENDATIONS: ACEA E3 / E4 / E5 / E7, AFNOR NF E 48-603 HV, Allison C-4, API CI-4 / GL-3 / GL-4 / GL-5 in agricultural machines under normal operating conditions (not in Holmer axles), Case MS 1207 / MS 1209 / MS 1210 / MS 1230, CNH New Holland MAT 3505 / MAT 3509 / MAT 3525 / MAT 3526 / NH 030 C / NH 330 G / NH 330 H / NH 410 B / NH 420 A / NH 526 C / NH 82009201 / NH 82009202 / NH 82009203, Deutz DQC III-10, DIN 51 524-3 HVLP (detergent), DTFR 15B110 (MB 228.3), Fendt KDM 28/2006, FNHA 2-C-200.00 / -2-C-201.00, Ford M2C 134-D / M2C 159-B / M2C 159-C / M2C 48-C3 / M2C 86-B, John Deere J 20 C, MAN M 3275, Massey Ferguson CMS M 1135 / M 1139 / M 1143 / M 1144 / M 1145, MIL-L-2105 A, ZF TE-ML 06A / 06B / 06C / 06F / 06L / 07B, also recommended for CATERPILLAR / CUMMINS / Renault
TECTROL 2000+4 SAE 5W30 SAE 5W-30	Multi-purpose oil (STOU) based on innovative base oil and additive technology for engines, manual transmissions, wet brake systems, hydraulics, turbo clutches in tractors and other agricultural machinery, construction machinery, commercial vehicles as well as for self-locking differentials and axle drives.	APPLICATION RECOMMENDATIONS: ACEA E3 / E5 / E7, API CI-4 / GL-3 / GL-4 / GL-5 in agricultural machines under normal operating conditions (not in Holmer axles), Case MS 1207 / MS 1209 / MS 1210 / MS 1230, CNH New Holland MAT 3505 / MAT 3509 / MAT 3525 / MAT 3526, Deutz DQC III, DIN 51 524-3 HVLP (detergent), DTFR 15B110 (MB 228.3) John Deere J 20 C, MAN M 3275, Massey Ferguson CMS M 1139 / M 1143 / M 1145, MIL-L-2105 A, ZF TE-ML 06A / 06B / 06F / 07B / 07D, also recommended for Claas / CNH New Holland / Deutz-Fahr / Fendt / Fiat / Ford / Massey Ferguson / Renault / Valtra
TECTROL SUPER 2000 CD-HC SAE 10W-30 SAE 75W-80	Multi-purpose oil (STOU) for diesel engines with and without turbocharging as well as gears, hydraulic and wet brake systems in agricultural and construction machinery.	APPROVALS: Deutz DQC I-02, ZF TE-ML 06B* (for vehicles up to 09/2011 year of construction) / 06F/07B - ZFO01205 SPECIFICATION: API CG-4 / GL-4 APPLICATION RECOMMENDATIONS: ACEA E3, AFNOR NF E 48-603 HV, Allison C-4, Case MS 1207 / MS 1209 / MS 1210 / MS 1230, CNH New Holland MAT 3505 / MAT 3509 / MAT 3525 / MAT 3526 / NH 410 B / NH 420 A / NH 82009201 / NH 82009202 / NH 82009203, DIN 51 524-3 HVLP (detergent), Ford M2C 134-D/M2C 159-B/M2C 159-C / M2C 48-C3/M2C 86-B, John Deere J 20 C, Massey Ferguson CMS M 1135 / M 1139 / M 1143 / M 1144 / M 1145, ZF TE-ML 06A / 06C / 06R, also recommended for CATERPILLAR / Claas

Multi-purpose oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SUPER 2000 PLUS SAE 10W-40 SAE 80W-90	Low-friction multi-purpose oil (STOU) for diesel engines with and without turbocharging as well as gears, hydraulic and wet brake systems in agricultural and construction machinery.	SPECIFICATION: ACEA E3, API CG-4 / GL-4 APPLICATION RECOMMENDATIONS: Allison C-4, Case MS 1118 / MS 1206 / MS 1207 / MS 1209 / MS 1230, CNH New Holland MAT 3505 / MAT 3509 / MAT 3525 / MAT 3526 / NH 024 C / NH 030 C / NH 410 B / NH 420 A / NH 82009201 / NH 82009202 / NH 82009203, Deutz DQC I-02, DIN 51 524-3 HVLP (detergent), Ford M2C 134-D / M2C 159-B / M2C 159-C / M2C 48-C3 / M2C 86-B, John Deere J 20 C / J 27, MAN 271, Massey Ferguson CMS M 1135 / M 1139 / M 1143 / M 1144 / M 1145, MB 228.1 (obsolete), ZF TE-ML 06A / 06B / 06C / 06F / 07B / 07D, also recommended for CATERPILLAR / Claas / CUMMINS / Deutz-Fahr / Fendt / Renault / Valtra
TECTROL SUPER 2000 PRO SAE 10W-40	Multi-purpose oil (STOU) for diesel engines with and without turbocharging as well as gears, wet brakes, hydraulic and turbo clutches in agricultural, forestry and construction machinery.	SPECIFICATION: ACEA E3, API CG-4 / GL-4 APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, CNH New Holland NH 410 B, Ford M2C 134-A, John Deere J 27, Massey Ferguson CMS M 1144 / M 1145, ZF TE-ML 05K / 06B / 06C / 07B / 07D, also recommended for use in gear and hydraulic systems of Case / Claas / Deutz / Fendt / John Deere / Steyr / Valtra and others.
TECTROL OPTIMUM STOU F SAE 10W-40 SAE 80W-90	Multi-purpose low-friction oil (STOU) for diesel engines with and without turbocharging as well as gears, hydraulic and wet brake systems in agricultural, forestry, construction and municipal machinery. Thanks to a special base oil and additive composition, it is optimised with regard to noise generation such as rattling and squeaking and is recommended as a solution for these conditions with wet brakes and brake noise. In addition to being used in vehicles from John Deere, Ford, MF and others, this product meets the specification of Fendt KDM 17/2012.	SPECIFICATION: ACEA E3, Allison C-4, API CD / CG-4 / GL-4 / SF APPLICATION RECOMMENDATIONS: Case MS 1118 / MS 1204 / MS 1206 / MS 1207 / MS 1209 / MS 1230, CAT TO-2, CNH New Holland MAT 3505 / MAT 3509 / MAT 3525 / MAT 3526 / NH 024 C / NH 030 C / NH 410 B / NH 420 A / NH 82009201 / NH 82009202 / NH 82009203, Deutz DQC I-02, DIN 51 524-3 HVLP (detergent), Fendt KDM 17/2012, Ford M2C 134-D / M2C 159-B / M2C 159-C / M2C 48-C3 / M2C 86-B / M2C 86-C, John Deere J 20 C / J 20 D / J 27, MAN 271, Massey Ferguson CMS M 1135 / M 1139 / M 1143 / M 1144 / M 1145, MB 227.1 (obsolete) / 228.1 (obsolete), Sperry Vickers / Eaton M2950-S and I-280-S, ZF TE-ML 06A / 06B / 06C / 06F / 06R / 07B / 07D, also recommended for Sauer Danfoss and many other manufacturers

Multi-purpose oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL UTTO-HF SAE 15W-30 SAE 10W-30 SAE 75W-80	Multi-purpose oil (UTTO) for gears and gear/hydraulic systems with integrated wet brakes and/or wet clutches as well as axles with and without differential locks in agricultural and construction machinery.	APPROVALS: ZF TE-ML 03E/05F/17E/21F (ZF001623) SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: AGCO Powerfluid 821 XL / Q-186 (Whitefarm), Allison C-4, Case MS 1206 / MS 1207 / MS 1209 / MS 1210 / MS 1230, CNH New Holland MAT 3505 / MAT 3506 / MAT 3509 / MAT 3525 / MAT 3526 / MAT 3540 / NH 410 B, FNHA-2-C-200.00 / -2-C-201.00, Ford M2C 134-D / M2C 48-C3 / M2C 86-B / M2C 86-C, John Deere J 20 C, Kubota UDT, Massey Ferguson CMS M 1135 / M 1143 / M 1145 / MF 1141, SDFG OT-1891 A, VALTRA G02-08, Volvo WB 101, ZF TE-ML 06K, also recommended for Claas / Fendt / Landini / Same / Volvo

TECTROL UTTO-MHF SAE 10W-30 SAE 80W	Multi-purpose oil (UTTO) for gears, gear/hydraulic systems and power-take-off clutches with and without wet brakes.	SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: AGCO Powerfluid 821 XL / Q-186 (Whitefarm), Allison C-4, Case MS 1207 / MS 1209 / MS 1210 / MS 1230 / MS 1317, CNH New Holland MAT 3505 / MAT 3506 / MAT 3509 / MAT 3510 / MAT 3525 / MAT 3526 / NH 410 B, FNHA-2-C-200.00 / -2-C-201.00, Ford M2C 86-B / M2C 86-C, John Deere J 20 C / J 20 D, Kubota UDT, Massey Ferguson CMS M 1135 / M 1141 / M 1143 / M 1145, ZF TE-ML 03E / 05F / 06K / 17E, also recommended for Landini / Renault Transmissions / Same Transmissions
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NEW

TECTROL UTTO-DVT SAE 10W-30 SAE 80W-80	Multi-purpose oil (UTTO) for use in gear/hydraulic systems with integrated wet brakes and/or wet clutches as well as axles and differential locks in agricultural, construction and forestry machinery. Outstanding performance in all components of hydrostatic tractor transmissions (CVT) and dual-clutch transmissions.	APPROVALS: ZF TE-ML 06B, 06D, 06N, 07B SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: ACEA E2, Allison C-4, API CF-4 / CG-4 / SF, CAT TO-2, Ford M2C 159-B / M2C 159-C, John Deere J 20 C / J 27, Massey Ferguson CMS M 1135 / M 1139 / M 1143 / M 1144 / M 1145, ZF TE-ML 06C / 06F / 06Q / 06R, also recommended (with corresponding lubricant specifications) for Landini / Lindner / McCormick / SDFG (Same Deutz Fahr Group)
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NEW

TECTROL UTTO-FN SAE 10W-30 SAE 75W-85	Multi-purpose oil (UTTO) for gears, gear/hydraulic systems, powershift transmissions, transfer cases and final drives with and without wet brakes, as well as wet clutches in agricultural, forestry, construction and work machinery. The product has been specially formulated for Fendt.	APPROVALS: Fendt FWN 81001 SPECIFICATION: Allison C-4, API GL-4 APPLICATION RECOMMENDATIONS: AGCO Powerfluid 821 XL / Q-186 (Whitefarm), Case MS 1206 / MS 1207 / MS 1209 / MS 1210 / MS 1230, CAT TO-2, CNH New Holland MAT 3505 / MAT 3506 / MAT 3509 / MAT 3525 / MAT 3526 / NH 410 B / NH 82948718, Denison HF-0 / HF-1 / HF-2, Ford M2C 134-D / M2C 48-C3 / M2C 86-B / M2C 86-C, Massey Ferguson CMS M 1135 / CMS M 1141 / CMS M 1143 / CMS M 1145, John Deere J 20 C, Kubota UDT, Volvo WB 101
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Multi-purpose oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL UTTO-F SAE 20W-30 SAE 80W-85	Multi-purpose oil (UTTO) for gears and gear/hydraulic systems with integrated wet brakes and/or wet clutches as well as axles with and without differential locks in agricultural and construction machinery. Optimised with regard to noise generation such as rattling and squeaking, and often used as a trouble-shooter for wet brakes with brake noise.	SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: AGCO Powerfluid 821 XL / Q-186 (Whitefarm), Allison C-4, Case MS 1206 / MS 1207 / MS 1209 / MS 1210 / MS 1230, CNH New Holland MAT 3505 / MAT 3506 / MAT 3509 / MAT 3525 / MAT 3526, Fendt (not Vario), FNHA-2-C-200.00 / -2-C-201.00, Ford M2C 134-D / M2C 48-C3 / M2C 86-B / M2C 86-C, John Deere J 20 C, Massey Ferguson CMS M 1135 / MF 1141, also recommended for Claas / Deutz-Fahr / Landini / Renault / Same

TECTROL UTTO-ZF SAE 20W-40	Special transmission oil for use in ZF axles with self-locking differentials and axle drives subject to high thermal loads. Especially recommended for use in high-load construction machinery.	APPROVALS: ZF TE-ML 05F/06K/17E/21F-ZF001161 SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: Volvo WB 101, ZF TE-ML 03E, also recommended for Hanomag / Komatsu
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TECTROL UTTO-TO SAE 30	High-performance transmission and hydraulic fluid for very high-load wet brake systems, especially suitable for powershift transmissions, gearboxes and final drives in construction machinery.	APPROVALS: ZF TE-ML 03C/07F-ZF001165 SPECIFICATION: API GL-4, CAT TO-4 APPLICATION RECOMMENDATIONS: Allison C-4 / TES-439, Komatsu KES 07.868.1, also recommended for Eaton
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NEW

TECTROL UTTO-TO 50 SAE 50	High-performance multi-purpose oil especially suitable for powershift transmissions, gearboxes and final drives in construction machinery.	SPECIFICATION: API GL-4, CAT TO-4 APPLICATION RECOMMENDATIONS: Komatsu KES 07.868.1
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04 Engine oils

Our modern engine oils meet the latest requirements for all commercial vehicles, work machines and passenger cars.

The oils are based on a high-quality base oil and additive technology and allow long intervals between oil changes. The excellent thermal stability leads to more cleanliness in the engine.



Engine oils for mixed fleets

Product	Description	Tried and tested in units with lubricant specifications
TECTROL TURBO 4000 SAE 10W-40	SHPD high-performance engine oil for all commercial vehicles, work machines and cars (American and European design), efficiency gains in mixed fleets.	APPROVALS: Deutz DQC III-18, DTFR 15B110 (MB 228.3) MACK EO-N, MTU oil category 2, Renault RLD-2, Volvo VDS-3 SPECIFICATION: ACEA A3/B4/B3/E7, API CI-4 / SL, GLOBAL DHD-1, ASO DH-1 APPLICATION RECOMMENDATIONS: ACEA E3 / E5, Allison C-4, CAT ECF-1-a / ECF-2, CUMMINS CES 20071 / CES 20072 / CES 20076 / CES 20077 / CES 20078, Iveco 18-1804 T1/T2 E7, MACK EO-M plus, MAN M 3275-1, MB 229.1
TECTROL TURBO 1040 SAE 10W-40	High-performance, low-friction engine oil for petrol and diesel engines in commercial vehicles and passenger cars with and without turbocharging as rationalisation grade.	SPECIFICATION: ACEA A3 / B4 / E7, API CI-4/SL, CUMMINS CES 20078, Detroit Diesel DDC93K215, GLOBAL DHD-1, JASO DH-1-17, MTU oil category 2 APPLICATION RECOMMENDATIONS: Deutz DQC III-18, DTFR 15B110 (MB 228.3), MACK EO-N, MAN M 3275-1, MB 229.1 (H), Renault RLD-2, Volvo VDS-3
TECTROL HDC 1540 SAE 15W-40	Super high-performance diesel engine oil (SHPD) for use in petrol or supercharged diesel engines.	APPROVALS: Deutz DQC III-18 SPECIFICATION: ACEA A3/B4 / E7, API CI-4 / SL, GLOBAL DHD-1, JASO DH-1 APPLICATION RECOMMENDATIONS: Allison C-4, CAT ECF-1-a / ECF-2, CNH New Holland NH 330 H, CUMMINS CES 20076 / CES 20077 / CES 20078, DTFR 15B110 (MB 228.3), MACK EO-M plus / EO-N, MAN M 3275-1, MB 229.1 (H), MTU oil category 2, Renault RLD-2, Volvo VDS-3
TECTROL HD 1540 SAE 15W-40	HD engine oil for all diesel and petrol engines for use under normal conditions. For vehicles with and without turbocharging.	SPECIFICATION: ACEA A3 / B4 / E7, API CF / CI-4 / SL APPLICATION RECOMMENDATIONS: Allison C-4, CAT ECF-1-a, CUMMINS CES 20076 / CES 20077 / CES 20078, Deutz DQC III-18, DTFR 15B110 (MB 228.3), GLOBAL DHD-1, MACK EO-N, MAN M 3275-1, MB 229.1 (H), Renault RLD-2, Volvo VDS-3

Engine oils for commercial vehicles

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SUPER TRUCK PLUS XL 530 SAE 5W-30 	Premium low-friction engine oil based on the latest base oils in combination with the latest XL additive technology (low-SAPS oil). This technology represents a significant improvement in the areas of fuel consumption, turbocharger deposits, cooling performance and oil consumption. Developed for commercial vehicles with turbocharging and state-of-the-art exhaust aftertreatment systems, such as diesel particulate filters or catalytic converters.	APPROVALS: Deutz DQC IV-18 LA, DTFR 15C110 (MB 228.51) / 15C120 (MB 228.52), MACK EOS-4.5, MAN M 3677 / M 3775, Renault RLD-3, Scania LDF-4, Volvo VDS-4.5 SPECIFICATION: ACEA E4 / E6 / E7 / E8 / E9 / E11, API CJ-4 / CK-4, CAT ECF-3, JASO DH-1 / DH-2 / DL-0 APPLICATION RECOMMENDATIONS: CNH New Holland MAT 3521, Cummins CES 20081 / CES 20086, Detroit Diesel DDC 93K218 / DFS 93K222, Iveco 18-1804 Classe TLS E6, MAN M 3271-1 / M 3477 / M 3575, MTU oil category 2.1 / oil category 3.1, Renault RLD-4, Scania LA
TECTROL SUPER TRUCK PLUS 530 M SAE 5W-30	Premium low-friction engine oil based on innovative base oils, which has been specially developed for low-emission Mercedes-Benz and MAN commercial vehicle diesel engines with modern exhaust aftertreatment systems and catalytic converters (low-SAPS oil). Excellent cold-starting properties as well as fast oiling make a wide range of applications possible with lower fuel consumption.	APPROVALS: DTFR 15C110 (MB 228.51), MAN M 3677 SPECIFICATION: ACEA E6 / E7 / E8 / E9 / E11, API CJ-4 / CK-4 / SN APPLICATION RECOMMENDATIONS: CAT ECF-3, Cummins CES 20081 / CES 20086, DAF Extended Drain, Detroit Diesel DFS 93K222, Deutz DQC IV-10 LA, DTFR 15C100 (MB 228.31), MACK EOS 4.5, MTU oil category 3.1, Renault RLD-3, Scania LDF-4, Volvo VDS-4.5
TECTROL SUPER TRUCK PLUS 1030 SAE 10W-30	High-quality, premium low-friction engine oil for low-emission commercial vehicle diesel engines with turbocharging and modern exhaust aftertreatment systems (low-SAPS) with the latest additive technology.	APPROVALS: Deutz DQC IV-18 LA, MACK EOS-4.5, MAN M 3677, Renault RLD-3, Volvo VDS-4.5 SPECIFICATION: ACEA E6 / E7 / E9 / E11, API CK-4 / SN, CAT ECF-3 APPLICATION RECOMMENDATIONS: CUMMINS CES 20086, Detroit Diesel DDC 93K218 / DFS 93K222, DTFR 15C110 (MB 228.51), MAN M 3477, MTU oil category 3.1, Scania LA

Engine oils for commercial vehicles

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SUPER TRUCK PLUS XL 1040 SAE 10W-40 	Premium low-friction engine oil based on the latest base oils in combination with the latest XL additive technology (low-SAPS oil). This technology represents a significant improvement in the areas of fuel consumption, turbo-charger deposits, cold performance and oil consumption. Developed for commercial vehicles with turbocharging and state-of-the-art exhaust aftertreatment systems, such as diesel particulate filters or catalytic converters.	APPROVALS: Deutz DQC IV-18 LA, DTFR 15C110 (MB 228.51) / 15C120 (MB 228.52), MACK EOS-4.5, MAN M 3775, MTU oil category 2.1 / oil category 3.1, Renault RLD-3, Volvo VDS-4.5 SPECIFICATION: ACEA E4 / E6 / E7 / E8 / E9 / E11, API CJ-4 / CK-4, CAT ECF-3, JASO DH-1 / DH-2 / DL-0 APPLICATION RECOMMENDATIONS: CNH New Holland MAT 3521 / MAT 3571, Cummins CES 20081 / CES 20086, Detroit Diesel DDC 93K218 / DFS 93K222, DTFR 15C100 (MB 228.31) Iveco 18-1804 Classe TLS E9 18-1809 Classe NG2, MAN M 3271-1 / M 3477 / M 3575, Renault RLD-4, Scania LA, Voith Retarder "B"
TECTROL SUPER TRUCK PLUS 1040 SAE 10W-40	Premium low-friction engine oil based on the latest base oils that has been specially developed for low-emission commercial vehicle diesel engines with modern exhaust aftertreatment systems such as catalytic converters and particulate filters.	APPROVALS: Deutz DQC IV-18 LA, DTFR 15C110 (MB 228.51), MACK EOS-4.5, MAN M 3775, Renault RLD-3, Volvo VDS-4.5 SPECIFICATION: ACEA E6 / E7 / E8 / E9 / E11, API CK-4 / SN, CAT ECF-3, JASO DH-2 APPLICATION RECOMMENDATIONS: Cummins CES 20086, Detroit Diesel DFS 93K222, DTFR 15C100 (MB 228.31), Iveco 18-1804 Classe TLS E9, MAN M 3477 / M 3575, MTU oil category 3.1, Renault RLD-4, Scania LA
TECTROL SUPER TRUCK PLUS 1040 M SAE 10W-40	High-performance, low-friction engine oil based on the latest base oils that has been specially developed for MAN, Mercedes-Benz and Deutz commercial vehicle diesel engines with modern exhaust aftertreatment systems such as catalytic converters and particulate filters.	APPROVALS: Deutz DQC IV-18 LA, DTFR 15C110 (MB 228.51), MAN M 3271-3 SPECIFICATION: ACEA E6 / E7 / E8 / E9 / E11, API CI-4, JASO DH-2 APPLICATION RECOMMENDATIONS: Cummins CES 20076 / CES 20077, MACK EO-N, MAN M 3271-1 / M 3477, MTU oil category 3.1, Renault RGD / RLD-2 / RXD, Volvo VDS-3
TECTROL SUPER TRUCK LD 1040 SAE 10W-40	Fuel-efficient premium low-friction engine oil for Scania diesel engines without diesel particulate filter (Euro 4 and Euro 5) as well as for use in Scania Euro 6 engines.	APPROVALS: Scania LDF-3 SPECIFICATION: ACEA E4 / E7, API CF APPLICATION RECOMMENDATIONS: DTFR 15B120 (MB 228.5), MACK EO-N, MAN M 3277, Renault RLD-2, Volvo VDS-3

Engine oils for commercial vehicles

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SUPER TRUCK 1040 SAE 10W-40	High-performance low-friction engine oil for commercial vehicle diesel engines with extremely long oil change intervals, ultra high-performance diesel engine oil (UHPD). For diesel engines with and without turbocharging.	APPROVALS: Deutz DQC III-18, DTFR 15B120 (MB 228.5) MACK EO-N, MAN M 3277, MTU-Ölkatgorie 3, Renault RLD-2, Volvo VDS-3 SPECIFICATION: ACEA E4 / E7, API CI-4, GLOBAL DHD-1 APPLICATION RECOMMENDATIONS: CUMMINS CES 20077 / CES 20078, Detroit Diesel DDC 93K215, Iveco 18-1804, MACK EO-M plus, Renault RXD, Same/Deutz/Fahr-Group OM-1901A
TECTROL SUPER TRUCK V D PLUS 1040 SAE 10W-40	High-performance, low-friction engine oil of the SHPD class (SHPD = Super High-Performance Diesel Oil) for supercharged and high-load diesel engines in commercial vehicles and work machines, which are equipped with exhaust after-treatment systems such as catalytic converters and particulate filters.	APPROVALS: Deutz DQC IV-18 LA, DTFR 15C110 (MB 228.51), MACK EOS-4.5, Renault RLD-3, Volvo VDS-4.5 SPECIFICATION: ACEA E6 / E7 / E8 / E9 / E11, API CK-4 APPLICATION RECOMMENDATIONS: CAT ECF-1-a / ECF-2 / ECF-3, CNH New Holland MAT 3521 / MAT 3571, Cummins CES 20081 / CES 20086, DAF (acc. OEM as per ACEA E6), Detroit Diesel DFS 93K222, Iveco 18-1804 Classe TLS E6, JASO DH-2, MAN M 3275 / M 3477 / M 3575 / M 3775, MTU oil category 3.1, Scania LA, Volvo, exceeds VDS 4/ -3/ -2
TECTROL SUPER TRUCK V D PLUS 1540 SAE 15W-40	High-performance engine oil of the SHPD class (Super High Performance Diesel) for supercharged and high-load diesel engines in commercial vehicles and work machines, which are equipped with exhaust after-treatment systems such as catalytic converters and particulate filters.	APPROVALS: MACK EOS-4.5, Renault RLD-3, Volvo VDS-4.5 SPECIFICATION: ACEA E9 / E11, API CJ-4 / CK-4 / SN, CAT ECF-3, JASO DH-2 APPLICATION RECOMMENDATIONS: CUMMINS CES 20086, Detroit Diesel DFS 93K222, Deutz DQC III-10 LA, DTFR 15C100 (MB 228.31), Ford M2C171-F1, MAN M 3575 / M 3775, MTU oil category 2.1
TECTROL SUPER TRUCK 1540 SAE 15W-40	High-performance engine oil of the SHPD class (Super High Performance Diesel) for supercharged and high-load diesel engines in commercial vehicles, work machines and passenger cars.	APPROVALS: Deutz DQC III-10, DTFR 15B110 (MB 228.3), MACK EO-N, MTU oil category 2, Renault RLD-2, Volvo VDS-3 SPECIFICATION: ACEA A3/B4/E7, API CF / CI-4 / SL, CAT ECF-1-a / ECF-2, GLOBAL DHD-1, JASO DH-1 APPLICATION RECOMMENDATIONS: ACEA E3 / E5, Allison C-4, CUMMINS CES 20071 / CES 20072 / CES 20076 / CES 20077 / CES 20078, Iveco 18-1804, MACK EO-M plus, MAN M 3275-1, MB 229.1 (H)

Engine oils for passenger cars

Product	Description	Tried and tested in units with lubricant specifications
NEW		
TECTROL SPEED C5 020 SAE 0W-20	State-of-the-art, low viscosity low-friction engine oil for passenger car diesel and petrol engines. Universal use in a variety of modern vehicles. Especially in selected models from BMW, Mercedes-Benz, Opel, Ford, Fiat and Volvo as well as a large number of Asian and US manufacturers according to API SP RC & ILSAC GF-6A. It ensures maximum fuel savings, reduced CO ₂ emissions, optimised engine cleanliness and protection against low-speed pre-ignition (LSPI).	APPROVALS: BMW Longlife-17 FE+, MB approval 229.71 / 229.72 SPECIFICATION: ACEA C5 / C6, API SN PLUS RC / SP RC, ILSAC GF-6A, Opel OV0401547 APPLICATION RECOMMENDATIONS: BMW Longlife-14 FE+, Chrysler MS-12145, Fiat 9.55535-GSX, Ford WSS-M2C947-B1 / WSS-M2C962-A1, Jaguar Land Rover STJLR.O3.5006-16, Volvo VCC RBS0-2AE
TECTROL SPEED LL 5300 SAE 5W-30	High-tech, high-performance low-friction engine oil with the latest additive technology. Developed for motor vehicles with petrol or diesel engines with and without turbocharger as well as vehicles with exhaust aftertreatment systems. For the longest oil change intervals approved by the manufacturer.	APPROVALS: BMW Longlife-04, VW 504 00 / 507 00, MB approval 229.51 / 229.52 SPECIFICATION: ACEA C3, API SN, Porsche C 30 APPLICATION RECOMMENDATIONS: BMW Longlife-01 / Longlife 98, Opel GM Dexos2, Opel OV0401547-D30, Opel OV0401547-G30, MB 229.31
TECTROL SPEED 530 SAE 5W-30	High-tech, high-performance low-friction engine oil with low-SAPS additive technology. Developed for motor vehicles with petrol or diesel engines with and without turbocharger.	APPROVALS: BMW Longlife-04, MB approval 229.31 / 229.51 / 229.52, VW 505 00 / 505 01 SPECIFICATION: ACEA C3, API CF / SN APPLICATION RECOMMENDATIONS: BMW Longlife-01 / Longlife 98, Ford WSS-M2C 917-A, Opel GM dexos2 / GM-LL-A-025 / GM-LL-B-025, VW 500 00 / 501 01
TECTROL SPEED C2 530 SAE 5W-30	High-tech, high-performance low-friction engine oil with low-SAPS additive technology. Developed for motor vehicles with petrol or diesel engines with and without turbocharger. Lowered HTHS, excellent fuel savings.	SPECIFICATION: ACEA A5/B5/C2, API CF / SM APPLICATION RECOMMENDATIONS: Fiat 9.55535-S1, also recommended (with corresponding lubricant specification) for Honda / Subaru / Suzuki / Toyota

Engine oils for passenger cars

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SPEED C4 530 SAE 5W-30	High-quality, high-tech, low-friction engine oil with low-SAPS additive technology. Developed for motor vehicles with petrol or diesel engines with and without turbocharger.	SPECIFICATION: ACEA C3 / C4 APPLICATION RECOMMENDATIONS: MB 226.51 / 229.51, Nissan (ACEA C4), Renault RN 0720
TECTROL SPEED F 530 SAE 5W-30	High-tech, high-quality low-friction engine oil with low-SAPS additive technology. Developed for Ford cars with petrol or diesel engines with and without exhaust aftertreatment systems.	SPECIFICATION: ACEA A5/B5, API CF / SN, Ford WSS-M2C 913-D, ILSAC GF-3 / GF-4 APPLICATION RECOMMENDATIONS: Ford WSS-M2C 913-A / WSS-M2C 913-B / WSS-M2C 913-C, Renault RN 0700
TECTROL SPEED C3 540 SAE 5W-40	Multi-purpose high-performance engine oil based on the latest base oil technology for passenger cars with petrol or diesel engines with and without maintenance interval extension as well as exhaust aftertreatment systems (DPF) and VW pump-nozzle (PD) engines. Suitable for vehicles with and without turbocharger.	SPECIFICATION: ACEA C3, API SN APPLICATION RECOMMENDATIONS: API CF, BMW Longlife-04, Fiat 9.55535-S2 / 9.55535-T2, Ford WSS-M2C 917-A, MB 226.5 / 229.31 / 229.51, Opel GM DEXOS 2, Porsche A 40, Renault RN 0700 / RN 0710, VW 505 00 / 505 01
TECTROL SPEED 540 SAE 5W-40	High-performance engine oil based on the latest base oil technology for passenger cars with petrol or diesel engine.	APPROVALS: MB approval 229.3, VW 502 00 / 505 00 SPECIFICATION: ACEA A3/B4, API CF / SN APPLICATION RECOMMENDATIONS: BMW Longlife-01, Opel GM-LL-B-025, PSA B 71 2296, Renault RN 0700 / RN 0710
TECTROL SPEED 1040 SAE 10W-40	Low-friction engine oil for heavy-duty petrol or diesel engines with and without turbocharging in passenger cars and estate cars.	SPECIFICATION: ACEA A3/B4, API CF / SL APPLICATION RECOMMENDATIONS: MB 229.1 (H) / 229.3, VW 500 00 / 501 01 / 505 00, Fiat 9.55535-G2/D2

Single-grade engine oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL HDC 10 SAE 10W	Single-grade engine oil for petrol and diesel engines with and without turbocharging. Can also be used in other units depending on the manufacturer's specifications.	SPECIFICATION: ACEA E2, API CF-4 / SG APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, MAN 270, MB 228.0 (obsolete), MIL- L-2104 C, ZF TE-ML 03B
TECTROL HDC 2020 SAE 20W-20	HD single-grade engine oil for petrol and diesel engines with and without turbocharging. Can also be used in other units (retarders) depending on the manufacturer's specifications.	SPECIFICATION: ACEA E2, API CF-4 / SG APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, MAN 270, MB 228.0 (obsolete)
TECTROL HD 2020 SAE 20W-20	HD engine oil for petrol and diesel engines without turbocharging.	SPECIFICATION: API CD / SF
TECTROL HDC 30 SAE 30	HD single-grade engine oil for petrol and diesel engines with and without turbocharging. Can also be used in other units depending on the manufacturer's specifications.	SPECIFICATION: ACEA E2, API CF-4 / SG APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, DTFR 15B100 (MB 228.2) MAN 270, MIL- L-2104 D, ZF TE-ML 02C / 04B
TECTROL HDC 40 SAE 40	Single-grade engine oil for petrol and diesel engines with and without turbocharging. Can also be used in other units depending on the manufacturer's specifications.	SPECIFICATION: ACEA E2, API CF-4 / SG APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, Deutz DQC I-02, DTFR 15B100 (MB 228.2), MAN 270, MIL- L-2104 D, MTU oil category 2, ZF TE-ML 02C / 04B
TECTROL HD 30 RASENMÄHERÖL SAE 30	HD single-grade engine oil especially for small appliances with 4-stroke engines in a practical 600 ml container.	SPECIFICATION: API CC / SF

Two-stroke engine oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL ZWEITAKT MIX SYN	Fully synthetic high-performance two-stroke engine oil. Low-smoke combustion (low-smoke formulation). Reduces deposits, prevents glow ignition. Perfectly suited for mixed and separate lubrication.	SPECIFICATION: API TC, ISO L-EGD, JASO FC / FD APPLICATION RECOMMENDATIONS: TISI (Thai Industrial Standards Institute)
TECTROL ZWEITAKT MIX HC	Premium two-stroke engine oil based on selected base oils. Excellent solubility, suitable for mixed and separate lubrication. Colour: red	SPECIFICATION: API TC, ISO L-EGD, JASO FD APPLICATION RECOMMENDATIONS: Use for mixed and separate lubrication

AdBlue®

Product	Description	Tried and tested in units with lubricant specifications
TECTROL AdBlue®	Fuel for modern diesel engines with SCR catalytic converters. Actively reduces emissions and nitrogen oxides (NOx) in exhaust gases. Used to meet Euro 5 and Euro 6 standards for lorries, passenger cars and commercial vehicles.	SPECIFICATION: AUS 32, DIN 70070, ISO 22241

05 Gas engine oils

TECTROL METHAFLEXX Premium engine oils for the lubrication of stationary petrol or diesel combined heat and power plants with and without pilot injection technology. With a high alkaline reserve and low sulphated ash content, these oils are ideally suited for operation with special gases (biogas, sewage gas or landfill gas) and natural gas. The combination of special hydrocracked base oils as well as selected zinc-free additive packages enables oil service lives to be extended. They also contribute to an increase in the service life of catalytic converters with and without SCR technology.



Gas engine oils

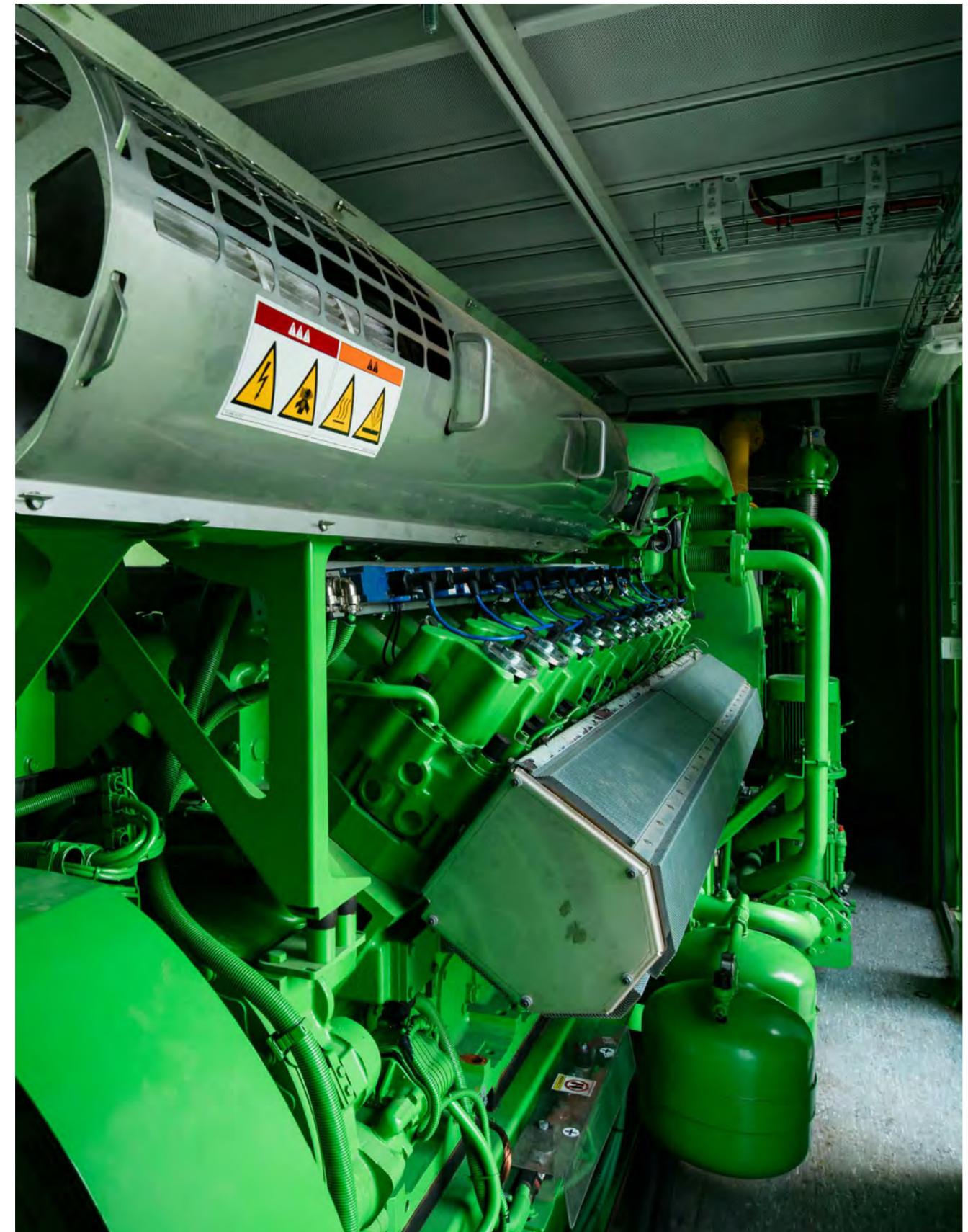
Product	Description	Tried and tested in units with lubricant specifications
TECTROL METHAFLEXX HC PREMIUM SAE 40	High-performance engine oil of the latest generation with specially selected hydrocracked base oils for stationary gas engines.	APPROVALS: 2G filius series (biogas) / KWK series (biogas), AGROGEN range BGA for biogas, AVS BHKW GmbH, CAT CG132 / CG170 / CG260, Deutz TR 0199-99-01213 (natural gas), Jenbacher TA 1000-1109 BR 2/3 fuel gas class A/B(CAT); BR 4 (version A/B) fuel gas class A/B(CAT); BR 6 (version C/E) fuel gas class A/B/S(CAT), MAN M 3271-4 (special gas), MTU Onsite Energy DK-BS-0001 (BR 400 biogas, natural gas, sewage gas, landfill gas, propane) / DK-BS-0002 (BR 4000 biogas), MWM TR 0199-99-2105, SEVA TRS-07, TEDOM TA 61-0-0281.1 (biogas, sewage gas, landfill gas) APPLICATION RECOMMENDATIONS: LIEBHERR (natural gas, biogas and special gas)
TECTROL METHAFLEXX SG PRO SAE 40	High-performance gas engine oil with low ash content (0.5 percent weight) for extreme requirements for operation with special gases (biogas, sewage gas, landfill gas). The combination of a base oil with a very high purity level and an optimised additive package protects the engine and components, especially in systems that are operated with heavily contaminated gases.	APPROVALS: CAT CG 132 / CG 132B / CG 170 / CG 170B / CG 260 / CG 260 (4.5), MAN M 3271-4 (special gas), MWM TR 0199-99-2105, MAN M 3271-5 (special gas with catalytic converter) APPLICATION RECOMMENDATIONS: Jenbacher TA 1000-1109 range 2, 3, 4 (version A/B), 6 (version C/E) fuel gas class B/C (CAT)
TECTROL METHAFLEXX ZS PLUS SAE 40	Latest generation of special engine oil for stationary gas engines, pilot injection gas engines and vegetable oil engines.	APPROVALS: 2G filius series (biogas) / KWK series (biogas), AGROGEN range BGA for biogas, AVS BHKW GmbH, MAN M 3271-4 (special gas), Schnell CHP engines, SEnergie (MWM Brazil/LIEBHERR), SEVA TRS-07 APPLICATION RECOMMENDATIONS: High-performance lubricant for stationary engines with gas or vegetable oil as fuel, LIEBHERR (biogas and special gas)
TECTROL METHAFLEXX ZS SAE 40	Gas engine oil for stationary gas engines.	APPROVALS: Dreyer & Bosse (pilot injection engines), Schnell CHP engines

Gas engine oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL METHAFLEXX D PLUS SAE 40	Zinc-free high-performance lubricant especially for all types of stationary gas engines where manufacturers do not impose maximum requirements on ash and phosphorus content. High wear and corrosion protection as well as a strong acid neutralisation capacity allow use even when operating with aggressive special gases (sewage gas, landfill gas and biogas).	APPROVALS: 2G filius series (biogas) / KWK series (biogas), AVS BHKW GmbH, CAT CG132 / CG170 / CG260, MAN M 3271-4 (special gas), MWM TR 0199-99-2105, SEVA TRS-07
TECTROL METHAFLEXX D PRO SAE 40	Gas engine oil with state-of-the-art additive technology and specially selected base oils for use in stationary gas engines. The high-performance engine oil with a high alkali reserve is particularly suitable for operation with digester and special gases (sewage gas, landfill gas, slurry gas and biogas, etc.).	APPLICATION RECOMMENDATIONS: CATERPILLAR (biogas, sewage gas, landfill gas), Jenbacher TA 1000-1109 range 2, 3, 4 (version B) and 6 (version C/E) fuel gas class B/C, MAN M 3271-4 (special gas)
TECTROL METHAFLEXX D SAE 40	High-performance lubricant especially for gas engines operating with all types of digester gas (sewage gas, landfill gas, slurry gas, etc.). Due to its high alkali reserves and very active corrosion inhibitors, the engine oil offers the highest possible protection against the increased concentrations of acidic and corrosive components in these gases. Therefore, long oil change intervals are ensured even with highly polluting gases. Also ideally suited for non-aggressive gases such as natural gas and LPG, if an ash content of up to max. 1 wt.% is approved by the engine manufacturer.	APPROVALS: 2G filius series (biogas) / KWK series (biogas), AVS BHKW GmbH, Jenbacher TA 1000-1109 range 2 and 3 fuel gas class C, MAN M 3271-4 (special gas), MDE BS 3212f, MTU Onsite Energy DK-BS-0001 (BR 400 biogas, sewage gas and landfill gas), SEVA TRS-07 APPLICATION RECOMMENDATIONS: Schnell pilot injection engines (Perkins engines)
TECTROL METHAFLEXX NG PREMIUM SAE 40	High-performance natural gas engine oil for stationary gas engines. The zinc-free engine oil is based on selected hydrocracked base oils combined with the latest additive technology. Due to a high acid buffer and excellent viscosity-temperature properties, longer oil change intervals are possible even under extreme operating conditions.	APPROVALS: MAN M 3271-2 (natural gas) APPLICATION RECOMMENDATIONS: Deutz TR 0199-99-01213 (natural gas), Jenbacher TA 1000-1109 range 2,3,4 and 6 fuel gas class A (CAT), MTU Onsite Energy DK-BS-0001 (BR 400 natural gas), MWM TR 0199-99-2105, SEnergie (MWM Brazil/LIEBHERR)

Gas engine oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL METHAFLEXX NG PRO SAE 40	Gas engine oil with the latest additive technology and specially selected base oils for use in stationary gas engines. The engine oil with low sulphated ash content is particularly suitable for operation with natural gas or LPG. Operation with special gases is also possible if the manufacturer prescribes an engine oil with low ash content.	APPROVALS: CAT CG132 / CG170 / CG260, MWM TR 0199-99-2105 APPLICATION RECOMMENDATIONS: CATERPILLAR (natural gas, biogas, sewage gas and landfill gas), CUMMINS (natural gas, biogas, sewage gas and landfill gas), Jenbacher TA 1000-1109 range 2, 3, 4 (Version B) and 6 (Version C/E) fuel gas class A/B, Wärtsilä (natural gas, biogas, sewage gas and landfill gas), Waukesha (natural gas, biogas, sewage gas and landfill gas)
TECTROL METHAFLEXX NG PLUS SAE 40	Zinc-free high-performance lubricant especially for gas engines with an exhaust catalyst and heat exchanger, but also for naturally aspirated engines with turbocharging and lean burn concept, for gas engines where a sulphated ash content of less than 0.5 wt.% is required.	APPROVALS: CAT CG132 / CG170 / CG260, Deutz TR 0199-99-01213 (natural gas), MWM TR 0199-99-2105, SEVA TRS-07, TEDOM TA 61-0-0281.1 (natural gas, propane-butane) APPLICATION RECOMMENDATIONS: CUMMINS (natural gas, biogas, sewage gas and landfill gas), Waukesha (natural gas, biogas, sewage gas and landfill gas)
TECTROL METHAFLEXX NG SAE 40	High-performance lubricant especially for gas engines with an exhaust catalyst and heat exchanger, but also for naturally aspirated engines with turbocharging and lean burn concept, approved by all leading gas engine manufacturers where a sulphated ash content of less than 0.5 weight by weight is required.	APPROVALS: 2G KWK series (natural gas), AVS BHKW GmbH, CAT CG132 / CG170 / CG260, Deutz TR 0199-99-01213 (natural gas), Jenbacher TA 1000-1109 BR 2/3 fuel gas class A (CAT); BR 4 (version A/B) fuel gas class A (CAT); BR 6 (version C/E) fuel gas class A/S (CAT), MAN M 3271-2 (natural gas), MDE (ranges 28xx and 30xx), MTU Onsite Energy DKBS-0001 (BR 400 natural gas, propane), MWM TR 0199-99-2105, SEnergie (MWM Brazil/LIEBHERR), SEVA TRS-07 APPLICATION RECOMMENDATIONS: CUMMINS (natural gas, biogas, sewage gas and landfill gas), Waukesha (natural gas, biogas, sewage gas and landfill gas)
TECTROL METHAFLEXX GE-M SAE 40	Gas engine oil for stationary gas engines that are operated with special gases such as biogas, sewage gas and landfill gas.	APPROVALS: 2G filius series (biogas) / KWK series (biogas), CAT CG132 / CG170 / CG260, Jenbacher TA 1000-1109 range 2 and 3 fuel gas class B/C, MAN M 3271-4 (special gas), MTU Onsite Energy DK-BS-0001 (BR 400 biogas, sewage gas, landfill gas), MWM TR 0199-99-2105



06 Transmission oils

Our lubricants for manual transmissions and axle drives meet the high requirements for transmissions in passenger cars and commercial vehicles. The balanced formulation of our high-performance oils enables fuel savings, extends oil change intervals, offers wear protection and increases the shifting comfort of the transmission.



Transmission oils for motor vehicles (manual transmission oils and axle drive oils)

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SYNTOGEAR MM 7590 SAE 75W-90	Fully synthetic, low-friction transmission oil for the longest oil change intervals in high-load commercial vehicle axle drives.	APPROVALS: MAN 342 Type S1 SPECIFICATION: API GL-5 APPLICATION RECOMMENDATIONS: DTFR 12B140 (MB 235.8) John Deere J 11 E/G, Scania STO 1:0, Volvo 97312, ZF TE-ML 05B / 07 / 08 / 12B / 16F / 17B
TECTROL SYNTOGEAR MA 7580 SAE 75W-80	Fully synthetic high-performance commercial vehicle manual transmission oil, specially suitable for manual and automatic ZF manual transmissions, enables fuel savings thanks to an optimum transmission efficiency, suitable long intervals between oil changes. Compatible with carbon synchronisers.	APPROVALS: MAN 341 Type Z4, ZF TE-ML 02L/16K-ZF001935 SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: MAN 341 Type E3, Volvo 97305, ZF TE-ML 01L / 08, also recommended for DAF / Eaton / Iveco / Renault
TECTROL SYNTOGEAR 7590 SAE 75W-90	Fully synthetic, high shear stable high-performance, low-friction engine oil. Suitable for axle and transfer cases with and without multi-disc self-locking differentials (incl. LS additives) and as a problem solver also for conventional manual transmissions.	SPECIFICATION: API GL-4 / GL-5 / LS APPLICATION RECOMMENDATIONS: VW G50 / G51
TECTROL MULTIGEAR PLUS 8090 SAE 80W-90	EP universal multi-grade transmission oil with low-friction properties for all transmissions to be filled with oils in the SAE classes SAE 80W, SAE 85W/85W-90 and SAE 90.	APPROVALS: MAN 341 Type Z2 / 342 Type M2, ZF TE-ML 02B/05A/12L/12M/16B/17H/19B/21A-ZF001160 SPECIFICATION: API GL-4 / GL-5, Scania STO 1:0 APPLICATION RECOMMENDATIONS: Case MS 1316, CNH New Holland NH 520 A, DTFR 12B100 (MB 235.0) Ford M2C 197-A, John Deere J 11 E, MAN 341 Type E2, SDFG OP 1705, Steyr B-101, ZF TE-ML 07 / 08
TECTROL MULTIGEAR EP 8090 SAE 80W-90	EP multi-grade transmission oil for manual transmissions and axle drives in passenger cars, commercial vehicles, construction and agricultural machinery.	SPECIFICATION: API GL-4 / GL-5 APPLICATION RECOMMENDATIONS: DTFR 12B100 (MB 235.0) / 13B100 (MB 235.1), MAN 342 Type M1 / 342 Type M2, MIL-L-2105 D, NATO O-226, Volvo 1273,10 (97310), ZF TE-ML 05A / 07A / 08 / 12E / 16B / 17B / 19B / 21A

Transmission oils for motor vehicles (manual transmission oils and axle drive oils)

Product	Description	Tried and tested in units with lubricant specifications
TECTROL MULTIGEAR HYP 90 SAE 90	EP transmission oil for high-load hypoid axle drives, all other spur and bevel gears, mechanical steering gears as well as change-speed gearboxes in commercial vehicles, passenger cars and work machines.	APPROVALS: DTFR 12B100 (MB 235.0) ZF TE-ML 16C / 17B / 19B / 21A - ZF005977 SPECIFICATION: API GL-5 APPLICATION RECOMMENDATIONS: John Deere J 11 E, MAN 342 Type M1, MIL - L-2105 D, Volvo 97310, also recommended for DAF
TECTROL MULTIGEAR LS 90 SAE 85W-90	LS hypoid transmission oil (LS = Limited Slip) for axles with and without self-locking differentials in commercial vehicles and work machines.	APPROVALS: ZF TE-ML 05C/16E/21C-ZF001167 SPECIFICATION: API GL-5 / LS APPLICATION RECOMMENDATIONS: CNH New Holland NH 520 B, Ford M2C 104-A, John Deere J 11 F, MIL-L-2105 D, also recommended for LIEBHERR, ZF TE-ML 08/12 C
NEW TECTROL MULTIGEAR LS 90 LV SAE 80W-90	Axle transmission oil for use in high-load hypoid transmissions with LS additives (Limited Slip). It is especially suitable for use in transmissions with and without limited slip differentials in agricultural and construction machinery.	APPROVALS: ZF TE-ML 05N / 21N SPECIFICATION: API GL-5, SAE J306: 80W-90 APPLICATION RECOMMENDATIONS: CNH New Holland NH 520 B, Ford M2C 104-A, John Deere J 11 F, MIL - L-2105 D, Volvo 97310, ZF TE-ML 05C / 21C
TECTROL MULTIGEAR LS 90 S SAE 85W-90	Axle transmission oil with LS (Limited Slip) properties. Suitable for axles with and without self-locking differential in lorries, buses, construction and agricultural machinery.	SPECIFICATION: API GL-5 / LS APPLICATION RECOMMENDATIONS: CNH New Holland NH 520 B, Ford M2C 104-A, John Deere J 11 F, MIL - L-2105 D, ZF TE-ML 05C / 08 / 12C / 16E / 21C, also recommended for LIEBHERR
TECTROL MULTIGEAR 85140 SAE 85W-140	EP transmission oil for high-load hypoid axle drives as well as all manual transmissions, transfer cases and auxiliary transmissions in vehicles and work machines.	SPECIFICATION: API GL-5 APPLICATION RECOMMENDATIONS: API GL-4, MAN 342 Type M1, MIL-L-2105 D, ZF TE-ML 05A / 07A / 12E / 16C / 16D / 19B / 21A
TECTROL UNIGEAR 80 SAE 80W	High-performance multi-purpose transmission oil for synchronised and non-synchronised manual transmissions as well as power take-offs and axles in commercial vehicles and passenger cars with corresponding manufacturer's specifications.	APPROVALS: DTFR 13B100 (MB 235.1), ZF TE-ML 17A-ZF001162 SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: BMW 81 22 9 407 052 / 81 22 9 407 053, Ford M2C 9008-A, VW TL 726, ZF TE-ML 08, also recommended for Eaton

Transmission oils for motor vehicles (manual transmission oils and axle drive oils)

Product	Description	Tried and tested in units with lubricant specifications
TECTROL UNIGEAR 90 SAE 90	High-performance multi-purpose transmission oil for synchronised and non-synchronised manual transmissions as well as power take-offs and axles in commercial vehicles and passenger cars with corresponding manufacturer's specifications.	SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: DTFR 13B100 (MB 235.1), MAN 341 Type E1 / 341 Type Z1, ZF TE-ML 02A / 16A / 17A / 19A, also recommended for Eaton

Automatic transmission oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL ATF 4000	High-performance ATF automatic transmission oil for commercial vehicles, passenger cars and work machines. ATF fluid corresponding to the DEXRON III performance level, field-proven and tried and tested in a large number of different applications such as automatic transmissions, power steering and hydraulic systems.	APPROVALS: DTFR 13C100 (MB 236.1), MAN 339 Type L1 / 339 Type V1 / 339 Type Z1, ZF TE-ML 04D/14A- ZF001907 APPLICATION RECOMMENDATIONS: Allison C-4 / TES-389, CAT TO-2, DEXRON II D / II E / III G / III H, Ford Mercon, GM Motors Type A Suffix A (TASA), MB 236.5 (H), Voith 55.6335.xx, Volvo 97341, ZF TE-ML 02F / 03D / 09B / 11B / 17C
TECTROL ATF 3000	High-performance ATF automatic transmission oil for commercial vehicles, passenger cars and work machines. ATF fluid corresponding to the DEXRON II (D) performance level, field-proven and tried and tested in a large number of different applications such as automatic transmissions, power steering and hydraulic systems.	APPROVALS: DTFR 13C100 (MB 236.1), MAN 339 Type V1 / 339 Type Z1, ZF TE-ML 04D / 14A- ZF001908 APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, DEXRON II D, Ford Mercon, GM Type A Suffix A (TASA), Voith 55.6335.xx, ZF TE-ML 02F / 03D / 09B / 11B / 17C

Industrial transmission oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL GEAR CLP PG ISO VG 220, 460	Fully synthetic industrial transmission oil based on selected polyglycols. They ensure high ageing and temperature stability.	APPROVALS: Siemens / Flender T 7300 SPECIFICATION: AGMA 9005-E02 EP, DIN 51 517-3 CLP-PG, ISO 6743-6 and ISO 12925-1 CKC/CKD/CKE/(CKS)/CKT APPLICATION RECOMMENDATIONS: Note: Do not mix with mineral oil!
TECTROL GEAR CLP SYN ISO VG 220, 320	Fully synthetic industrial transmission oil for cost-effective supply of industrial gears.	APPROVALS: Siemens / Flender BA 7300, Table A SPECIFICATION: AGMA 9005-E02 EP, AIST 224, David Brown S1.53.101, DIN 51 517-3 CLP, ISO 6743-6 and ISO 12925-1 CKC/CKD/CKE
TECTROL GEAR CLP PLUS ISO VG 220, 320, 460	Latest generation industrial transmission oil based on mineral oil with excellent extreme pressure (EP) properties for use in highly loaded spur, bevel and worm gears with circulating oil lubrication.	APPROVALS: Siemens / Flender BA 7300, Table A SPECIFICATION: AGMA 9005-E02 EP, AIST 224, David Brown S1.53.101, DIN 51 517-3 CLP, ISO 6743-6 and ISO 12925-1 CKC/CKD
TECTROL GEAR CLP ISO VG 100, 150, 220, 320, 460	Industrial gear oil based on mineral oil with EP/AW additives for use in spur, bevel and worm gears with circulating oil lubrication.	SPECIFICATION: DIN 51 517-3 CLP, ISO 6743-6 and ISO 12925-1 CKC/CKD

Bedway oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL CGLP 68 ISO VG 68	Demulsifying slideway and bedway oil highly compatible with water-miscible cooling lubricants.	SPECIFICATION: DIN 51 517-3 CLP / 51 524-2 HLP
TECTROL CGLP 220 ISO VG 220	Demulsifying slideway and bedway oil, highly compatible with water-miscible cooling lubricants.	SPECIFICATION: DIN 51 517-3 CLP / 51 524-2 HLP

Compressor oil

Product	Description	Tried and tested in units with lubricant specifications
TECTROL VERDICHTERÖL 100 ISO VG 100	Air compressor oil based on a special mineral oil raffinate for piston, turbo and rotary compressors according to DIN 51506 type VDL. With low carbonisation and deposition tendency.	SPECIFICATION: DIN 51 506 VDL, ISO 6743-3 (L-DAH)

Vacuum pump oil

Product	Description	Tried and tested in units with lubricant specifications
TECTROL MELKMASCHINENÖL UNIVERSAL ISO VG 46	High-performance milking machine oil (vacuum pump oil) for all milking systems.	

07 Hydraulic oils

Our innovative hydraulic oils are developed for demanding applications in modern hydraulic systems. For use in mobile and stationary hydraulics, they offer a very wide temperature operating range, excellent wear protection and contribute to energy savings due to their high efficiency.



Hydraulic oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL HYDRAFLEXX XL PRO 46 ISO VG 32 - 68 	HVLP high-performance multi-grade hydraulic oil based on specially hydrogenated base oils from HC synthetic oil with new additive technology. Very high viscosity index, excellent shear stability, outstanding wear protection and oxidation resistance. Perfectly suited to low starting temperatures. Energy saving, increased efficiency.	APPROVALS: ARBURG injection moulding machines, ENGEL injection moulding machines, KraussMaffei injection moulding machines SPECIFICATION: DIN 51 524-3 HVLP, ISO 6743-4 HV APPLICATION RECOMMENDATIONS: CATERPILLAR recommended for hydraulic systems, Cincinnati Milacron P68 / P69 / P70, Denison HFOT6H20C: Hybrid pump, SAE 10W / 10W-30 / 15W / 15W-30 / 20W-20, U.S. Steel 127 / 136, Vickers 35VQ-25 / V104-C: Vane Pumps, also recommended for Bosch Rexroth / Terex
TECTROL HYDRAFLEXX XL 32 ISO VG 22 - 46 	HVLP high-performance multi-grade hydraulic oil based on specially hydrogenated base oils from HC synthetic oil with new additive technology. Very high viscosity index, excellent shear stability, outstanding wear protection and oxidation resistance. Perfectly suited to low starting temperatures. Energy saving, increased efficiency.	SPECIFICATION: DIN 51 524-3 HVLP, ISO 6743-4 HV APPLICATION RECOMMENDATIONS: CATERPILLAR recommended for hydraulic systems, Cincinnati Milacron P68 / P69 / P70, Denison HFO-T6H20C: Hybrid pump, SAE 10W / 15W / 20W-20, U.S. Steel 127 / 136, Vickers 35VQ-25 / V104-C: Vane Pumps, also recommended for Bosch Rexroth / Terex
TECTROL HYDRAFLEXX XL 46 ISO VG 32 - 68 	HVLP high-performance multi-grade hydraulic oil based on specially hydrogenated base oils from HC synthetic oil with new additive technology. Very high viscosity index, excellent shear stability, outstanding wear protection and oxidation resistance. Perfectly suited to low starting temperatures. Energy saving, increased efficiency.	APPROVALS: Bosch Rexroth RDE 90245, VEOLIA Umweltservice GmbH (hydraulic systems) SPECIFICATION: DIN 51 524-3 HVLP, ISO 6743-4 HV APPLICATION RECOMMENDATIONS: CATERPILLAR recommended for hydraulic systems, Cincinnati Milacron P68 / P69 / P70, Denison HFOT6H20C: Hybrid pump, SAE 10W / 10W-30 / 15W / 15W-30 / 20W-20, U.S. Steel 127 / 136, Vickers 35VQ-25 / V104-C: Vane Pumps, also recommended for Terex
TECTROL HC 530 ISO VG 32 - 68	Detergent (HVLP-D) universal multi-grade hydraulic oil for all hydraulic systems in vehicles and work machines from HC synthetic oil. High viscosity index (HVI), excellent viscosity-temperature performance, good cost-saving possibilities. Excellent additivation to improve corrosion and wear protection as well as ageing resistance.	SPECIFICATION: DIN 51 524-3 HVLP (detergent), ISO 11158 HV APPLICATION RECOMMENDATIONS: SAE 5W-30, Vickers V 104 C acc. to DIN 51389-2

Hydraulic oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL HVLP-D ISO VG 46, 68	Detergent (HVLP-D) hydraulic oil for all hydraulic systems in vehicles and work machines. High viscosity index (HVI), excellent viscosity-temperature performance. Additives to improve corrosion and wear protection as well as ageing resistance.	SPECIFICATION: DIN 51 524-3 HVLP (detergent, except demulsibility according to DIN 51 599) APPLICATION RECOMMENDATIONS: HVLP-D 46: as rationalisation grade for HLP 32 - 68
TECTROL HVLP 1030 ISO VG 68 SAE 10W-30	HVLP lubricating and hydraulic oil with additives to improve corrosion and wear protection as well as ageing resistance. High viscosity index (HVI), excellent viscosity-temperature performance. Good cost-saving possibilities.	SPECIFICATION: DIN 51 524-3 HVLP APPLICATION RECOMMENDATIONS: ASTM D6158, DIN 51 524-2 HLP VG 46-100, GM LS 2, ISO 11158, SAE 20W-20 / MS 1004, U.S. Steel 126 / 127
TECTROL HVLP ISO VG 32, 46, 68	HVLP lubricating and hydraulic oil with additives to improve corrosion and wear protection as well as ageing resistance. High viscosity index (HVI), excellent viscosity-temperature performance.	SPECIFICATION: DIN 51 524-3 HVLP APPLICATION RECOMMENDATIONS: ASTM D6158, DIN 51 524-2 HLP, GM LS 2, ISO 11158, JCMA S P041 HK, SAE MS 1004, U.S. Steel 126 / 127
NEW TECTROL HVLP 46 VI 180 ISO VG 46	HVLP lubricating and hydraulic oil with additives to improve corrosion and wear protection as well as ageing stability. Extremely high viscosity index VI 180. It covers the ISO VG 32/46 and 68 viscosity classes in accordance with HLP requirements.	APPLICATION RECOMMENDATIONS: AIST 126 / 127, ASTM D6158, DIN 51 524-3 HVLP, GM LS 2, HLP VG 32 - 68, ISO 11158, JCMA S P041 HK, SAE MS 1004
TECTROL MR 15 ISO VG 46	Multi-purpose hydraulic fluid (HLP-D) with detergent and demulsifying properties, can also be used as bedway/slideway oil, excellent viscosity-temperature performance.	SPECIFICATION: DIN 51 524-2 HLP (detergent, except demulsibility according to DIN ISO 6614), ISO 6743-4 HM APPLICATION RECOMMENDATIONS: DIN 51 524-2 HLP-D (detergent)

Hydraulic oils

Product	Description	Tried and tested in units with lubricant specifications
TECTROL HLPD ISO VG 22, 32, 46, 68	Detergent and dispersing hydraulic oil with additives to improve corrosion and wear protection as well as ageing resistance.	SPECIFICATION: DIN 51 524-2 HLP (detergent) APPLICATION RECOMMENDATIONS: Denison filterability TP 02100, MAN N 698
TECTROL HLP ISO VG 10, 22, 32, 46, 68, 100	Lubricating and hydraulic oil with additives to improve corrosion and wear protection as well as ageing resistance.	SPECIFICATION: DIN 51 524-2 HLP APPLICATION RECOMMENDATIONS: AFNOR NF E 48-603 (HM, HV), CETOP RP 91 H (HM, HV), Denison Filterability TP 02100, Hoesch HWN 2333, SIS SS 155434, Sperry Vickers M2950-S and I-286-S, U.S. Steel 126 / 127, also recommended for Bosch Rexroth



You can find environmentally-friendly Terra hydraulic oils in the section "Biodegradable lubricants"

08 TECTROL re:source

Our re:source lubricants are characterised by their careful use of resources. By re-refining lubricating oil from the circular economy, CO₂* emissions are also reduced significantly, whilst the product performance is comparable to conventionally produced lubricants.



*LCA (ifeu 2022) based on ISO 14040/44, DEKRA certified

CO₂ optimised lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL re:HYD HV ISO VG 46	Universal multi-grade hydraulic oil with resource-saving properties for a viscosity range of 32–68, CO ₂ reduced. Very good viscosity-temperature performance and detergent properties, excellently suited for use in stationary and mobile hydraulic systems and for rationalisation of the hydraulic oil requirement.	SPECIFICATION: DIN 51 524-3 HVLP-D (detergent) APPLICATION RECOMMENDATIONS: DIN 51 524-2 HLP VG 32-68, DIN 51 524-3 HVLP
TECTROL re:HYD 46 ISO VG 46	Hydraulic oil with resource-saving properties, CO ₂ reduced. Universally applicable demulsifying hydraulic oil, also suitable for circulation and bearing lubrication and can be used for all applications in mobile and stationary hydraulic systems.	SPECIFICATION: DIN 51 524-2 HLP, ISO 11158 HM APPLICATION RECOMMENDATIONS: AFNOR NF E 48-603 (HM, HV), CETOP RP 91 H (HM, HV), Denison Filterability TP 02100, German Steel SEB 181222, Sperry Vickers / Eaton M2950-S and I-286-S, also recommended (with corresponding lubricant specification) for Bosch Rexroth
TECTROL re:HYD 22 ISO VG 22	Hydraulic oil with resource-saving properties, CO ₂ reduced. Universally applicable demulsifying hydraulic oil, also suitable for circulation and bearing lubrication and can be used for all applications in mobile and stationary hydraulic systems.	SPECIFICATION: DIN 51 524-2 HLP APPLICATION RECOMMENDATIONS: AIST 126 / 127, ASTM D6158, ISO 11158
TECTROL re:STOU SAE 10W-40 SAE 80W-90	Multi-purpose low-friction oil (STOU) with resource-saving properties, CO ₂ reduced. As an engine oil, ideally suited for agricultural, forestry and construction machinery with diesel engines (ACEA E3) with and without turbocharging. Also suitable for gears and gear/hydraulic systems with integrated wet brakes and/or wet clutches running in oil bath, as well as axles with and without differential locks in agricultural and construction machinery.	SPECIFICATION: ACEA E3, API CG-4 / GL-4 APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, CNH New Holland NH 410 B / NH 82009203 (20W-40), DIN 51 524-3 HVLP-D, Ford M2C 134-A, John Deere J 27, Massey Ferguson CMS M 1135 / M 1139 / M 1144, ZF TE-ML 05K / 06C / 07D, also suitable for use in gear and hydraulic systems of Case / Claas / Deutz / Fendt / John Deere / Steyr / Valtra and others.

CO₂ optimised lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL re:UTTO SAE 10W-30 SAE 80W	Multi-purpose oil (UTTO) with resource-saving properties, CO ₂ reduced. For gears and gear/hydraulic systems with integrated wet brakes and/or clutches running in oil bath as well as axles with and without differential locks in agricultural and construction machinery.	SPECIFICATION: API GL-4 APPLICATION RECOMMENDATIONS: Allison C-4, CAT TO-2, CNH New Holland NH 410 B, DIN 51 524-3 HVLP-D, Ford M2C 134-D / M2C 86-B, John Deere J 20 C, Massey Ferguson CMS M 1135 / M 1141 / M 1145, Sperry Vickers / Eaton M2950-S and I-286-S, UTTO SAE 10W-30, Volvo WB 101 (except grader rear axle), also suitable for use in gear and hydraulic systems of Case / Claas / Deutz / John Deere / Steyr / Valtra and others.

09 Lubricating greases

TECTROL's range of lubricating greases has a wide variety of application possibilities for construction, industry, agriculture and forestry. The quality lubricating greases offer the optimum technical solution with high reliability.



Lubricating greases

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SPEZIAL-FETT PH 2-460 NLGI 1-2	Polyurea-based lubricating grease for the most demanding applications in the high-temperature range. Due to the special additives, a very high thermal and mechanical load capacity is achieved as well as a low coefficient of friction and a high corrosion protection in long-term application.	SPECIFICATION: DIN 51 502 KPF 2 R-10, ISO -L-X-BFEB-1-2 APPLICATION RECOMMENDATIONS: Operating temperature range -10°C to +180°C, short-term +200°C
TECTROL SPEZIAL-FETT LX 2 NLGI 2	Lithium-complex saponified EP grease for universal use. High lubricating film strength and good adhesion reduce wear and friction to a minimum, long-term lubrication of plain and rolling bearings in packaging machines, passenger cars and commercial vehicles, thermally and mechanically highly durable.	SPECIFICATION: DIN 51 502 KP 2 N-30, ISO -L-X-CDEB 2 APPLICATION RECOMMENDATIONS: Operating temperature range -30°C to +140°C, short-term +160°C
TECTROL SPEZIAL-FETT CX 1 NLGI 1	Calcium-complex saponified EP grease with very high water resistance, temperature-stable special grease, acid and alkali-stable, for high-load bearing points, effective in central lubrication systems, can be pumped, preferred use in the chemical, rubber, tyre, steel, stone and earth industries.	SPECIFICATION: DIN 51 502 KP 1 N-30, ISO-L-X-CDHB 1 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +140°C
TECTROL SPEZIAL-FETT CX 2 NLGI 2	Calcium-complex saponified EP grease with very high water resistance, temperature-stable special grease, acid and alkali-stable, for high-load bearing points, effective in central lubrication systems, can be pumped, preferred use in the chemical, rubber, tyre, steel, stone and earth industries.	SPECIFICATION: DIN 51 502 KP 2 N-30, ISO-L-X-CDHB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +140°C
TECTROL MULTI-FETT H 443-HD 88 NLGI 2-3	High-quality temperature-stable multi-grade lubricating grease based on lithium soap for lubrication of rolling and plain bearings, especially for shock and vibrating loads, strong adhesion, excellent sealing performance.	SPECIFICATION: DIN 51 502 KP 3/2 N-30, ISO-L-X-CDEB 3/2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +140°C, also recommended for Flender / RWE Rheinbraun / SKF

Lubricating greases

Product	Description	Tried and tested in units with lubricant specifications
NEW TECTROL MULTI-FETT HD 443 NLGI 2-3	Lithium saponified EP multi-purpose grease with EP and AW additives for use in agricultural and construction machinery as well as industrial applications. It is perfectly suited for use with vibrating and shock loads and offers excellent lubricating properties even in damp ambient conditions.	SPECIFICATION: DIN 51 502 KP 2.5 K-30, ISO L-XC(F)CIB 2.5 APPLICATION RECOMMENDATIONS: Application/operating temperature range: -30°C to +130°C
TECTROL MULTI-FETT RED NLGI 2	All-round lubricating grease based on a special lithium-calcium-soap combination with selected additives, particularly characterised by temperature stability, pressure load capacity and work stability. Excellent sealing of the lubrication points against dirt and moisture penetrating from outside, excellent long-lasting wear protection of roller and plain bearings, optimisation of relubrication intervals.	SPECIFICATION: DIN 51 502 KP 2 K-20, ISO-L-X-BCHB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -25°C to +130°C
TECTROL MULTI-FETT CAL 2 NLGI 2	Performance-optimised long-term adhesive grease based on a special calcium soap, meets the highest demands for corrosion protection and resistance to water and salt water. Suitable for long-term lubrication of industrial, construction and agricultural machinery.	SPECIFICATION: DIN 51 502 KP 2 G-30 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +110°C
TECTROL MULTI-FETT LZR 2 H NLGI 2	Lithium grease with long-term rust protection and EP additives, particularly suitable in modern centralised lubrication systems, compatible with Hytrel, for all rolling and plain bearings as well as centralised lubrication systems in commercial vehicles and work machines, with excellent corrosion protection even in the presence of salt water.	SPECIFICATION: DIN 51 502 KP 2 N-30, ISO-L-X-CDIB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +140°C, also recommended for Beka Max / Lincoln / Willy Vogel

Lubricating greases

Product	Description	Tried and tested in units with lubricant specifications
TECTROL MULTI-FETT EP 2 NLGI 2	High-quality EP multi-purpose grease based on lithium soap, with excellent low temperature characteristics. Universally applicable for various grease lubrication points on passenger cars, commercial vehicles, construction and agricultural machinery.	SPECIFICATION: DIN 51 502 KP 2 K-30, ISO -L-X-CCIB 2 APPLICATION RECOMMENDATIONS: Operating temperature range -30°C to +120°C, short-term +130°C
TECTROL MULTI-FETT FLM 2 NLGI 2	Universal high-performance lubricating grease with super wear protection (MoS ₂) for grease lubrication points on commercial vehicles and work machines, excellently proven under extreme loads, e.g. in construction site traffic.	SPECIFICATION: DIN 51 502 KPF 2 N-30, ISO-L-X-CDEB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +140°C
NEW		
TECTROL MULTI-FLIESSFETT 000 NLGI 00/000	Highly adhesive, water-resistant, lithium-calcium soap-based liquid grease for use in centralised lubrication systems in trucks and commercial vehicles, but can also be used as a gear fluid grease in moderately loaded industrial gearboxes.	SPECIFICATION: DIN 51 502 GP 00/000 G-40, ISO -L-X-DBIB 00/000 APPLICATION RECOMMENDATIONS: Application/operating temperature range -40°C to +110°C, MAN 283 Li-P 00/000, MB 264.0, Willy Vogel liquid greases for commercial vehicles, also recommended (with corresponding lubricant specifications) for Lincoln / Tecalemit
TECTROL MULTI-GETRIEBE-FLIESSFETT NLGI 0	Sodium saponified, long-lasting liquid grease with excellent adhesive properties. High EP additivation, therefore wear-reducing properties. Excellently suitable for gearbox lubrication in industry and agriculture.	SPECIFICATION: DIN 51 502 GP 0 H-30, ISO-L-X-CBBB 0 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +100°C



You can find environmentally-friendly Terra hydraulic oils in the section "Biodegradable lubricants"

10 Metalworking oils

Demands on modern cooling lubricants are constantly increasing. In order to ensure the cost-effectiveness of your processes, TECTROL METALLUM ensures an optimum cutting performance and surface quality while protecting your tools – even with long coolant lifetimes.

In addition to the technical components, TECTROL focuses on the health of your employees, the conservation of resources and environmental protection. It goes without saying that the TECTROL METALLUM product range meets the strict requirements of REACH, TRGS 611 and BGU/GUV-R 143.

TECTROL METALLUM

- ✓ Competent and solution-based advice
- ✓ Sophisticated and field-tested products
- ✓ High delivery capability through global trading partners
- ✓ Training for your employees
- ✓ Fluid management
- ✓ Measurement and documentation according to TRGS 611 and BGU/GUV-R 143



Water-miscible cooling lubricants

Product	Description	Areas of application	Materials
TECTROL METALLUM WK 33	free from mineral oil, containing boron and amine, colourless	Grinding	Stahl, Guss
TECTROL METALLUM WK 55	free from mineral oil, free from boron, containing amine, counteracts cobalt dissolution, colourless	Grinding	Steel, cast iron, non-ferrous metal, carbide
TECTROL METALLUM WK 77	free from mineral oil, containing amine, colourless	Grinding of steel, light and heavy chipping	Steel, cast iron
TECTROL METALLUM WE 111	containing mineral oil, containing amine, for medium machining	Chipping	Steel, non-ferrous metal
TECTROL METALLUM WE 606	containing mineral oil, free from amine, free from DCHA, especially suitable for aluminium	Chipping	Aluminium, steel, non-ferrous metal
TECTROL METALLUM WE 705	containing mineral oil, containing DCHA	Grinding, medium chipping	Steel, cast iron (non-ferrous metal)
TECTROL METALLUM WE 707	containing mineral oil, containing DCHA	Medium to heavy chipping	Aluminium, steel (cast iron)
TECTROL METALLUM WE 730	containing mineral oil, containing DCHA	Grinding	Steel, cast iron
TECTROL METALLUM WE 710 AL	containing mineral oil, containing DCHA, especially for aluminium processing	Chipping	Aluminium, steel, cast iron
TECTROL METALLUM WE 720 WB	containing mineral oil, containing DCHA	Chipping	Aluminium, steel
NEW			
TECTROL METALLUM WE 815 LB	containing mineral oil, containing DCHA	Grinding, Chipping	Steel, cast iron

Non-water-miscible cooling lubricants

Product	Description	Areas of application	Materials
TECTROL METALLUM MM 90-28	free from chlorine and mineral oil	Minimum quantity lubricant, chipping and non-chipping machining	Alloyed and unalloyed steels, cast iron, aluminium, non-ferrous metal
TECTROL METALLUM MM 90-40	free from chlorine and mineral oil, ester-based	Minimum quantity lubricant, chipping and non-chipping machining	Alloyed and unalloyed steels, cast iron, aluminium, non-ferrous metal
TECTROL METALLUM OL 20-22	free from chlorine, containing mineral oil	Cutting oil, general chipping	Carbide, alloyed and unalloyed steels, cast iron, aluminium and non-ferrous metal
TECTROL METALLUM OL 30-32	free from chlorine, containing mineral oil	Cutting oil, general chipping	Alloyed and unalloyed steels, cast iron, aluminium, non-ferrous metal
TECTROL METALLUM OL 50-20	free from chlorine, containing mineral oil	Cutting oil, chipping, deep hole drilling	Alloyed and unalloyed steels, cast iron, aluminium, non-ferrous metal
TECTROL METALLUM TERRA OL 22	free from chlorine and mineral oil, ester-based, biodegradable	Cutting oil, minimum quantity lubricant, chipping and non-chipping machining	Alloyed and unalloyed steels
			
TECTROL METALLUM UF 10	free from chlorine, solvent-based	Light to medium forming, punching	Alloyed and unalloyed steels, aluminium, non-ferrous metal
TECTROL METALLUM UF/CM	free from chlorine, synthetic	Forming, deep drawing, drawing profiles	Unalloyed steels (only forming), aluminium, non-ferrous metal
NEW			
TECTROL METALLUM UF S8	free from chlorine, containing mineral oil	Forming, punching, deep drawing, bending	Alloyed and unalloyed steels
NEW			
TECTROL METALLUM UF L-H	free from chlorine, containing mineral oil	Fine grinding and honing, lapping of glass beads	Alloyed and unalloyed steels
TECTROL METALLUM GTL SG 10	GTL-based	Grinding, light machining	Alloyed and unalloyed steels, aluminium, non-ferrous metal, carbide

Non-water-miscible cooling lubricants

Product	Description	Areas of application	Materials
TECTROL METALLUM GTL 50-130	GTL-based	Chipping, deep hole drilling, reaming	Alloyed and unalloyed steels, aluminium, non-ferrous metal
TECTROL METALLUM GTL 50-160 ZF	GTL-based, free from zinc	Chipping, grinding, milling of gears and tooth flanks	Alloyed and unalloyed steels, aluminium, non-ferrous metal, cast iron

Electrical discharge machining oil

Product	Description
TECTROL METALLUM DIELEKTRIKUM	For sink-EDM. Universal use for roughing and finishing.

Cleaners

Product	Description
TECTROL METALLUM CLEANER 20	Slightly alkaline, water-soluble and salt-free neutral cleaner for use in high-pressure, immersion and ultrasonic processes. Especially recommended for the use of materials made of steel, cast iron, aluminium, non-ferrous metal and plastic.

Corrosion inhibitors

Product	Description
TECTROL METALLUM KORRO DW 9	Mineral oil-containing corrosion protection with water displacing properties. The treated surfaces remain protected for up to nine months in areas without direct contact with water and up to two months outdoors.

11 Release agents and formwork oils

Our TECTROL release agents for structural and civil engineering, trade and industry offer high performance in application, safety in handling and economy in use. The release agents can be applied easily and safely with commercially available sprayers.



Release agents (formwork and mould oils)

Product	Description
TECTROL BETO 100	Universal release agent for concrete plants and building construction. Particularly suitable for non-absorbent or low-absorbent formwork types as well as for phenolic resin formwork linings, all-plastic formwork linings and plastic-coated formwork linings.
TECTROL BETO 330	Solvent-free release agent for precasts. It is excellently suited for plastic and steel formwork as well as for formwork that is stored outdoors.
TECTROL BETO 550	Solvent-free concrete release agent for the production of fair-faced concrete in building construction and civil engineering as well as in precast plants. Can also be used for all-plastic formwork and plastic-coated formwork types. Can be used as mixer protection.
TECTROL BETO 620	Release agent for use in precast plants.
TECTROL BETO 650	Release agent for concrete block production.
TECTROL BETO 830	Solvent-based concrete release agent for the production of high-quality fair-faced concrete in precast plants.
TECTROL BITU LM	Release agent for bitumen and asphalt, keeps loading areas and mixers clean. Suitable for polymer modified bitumen.
TECTROL BITU FO	Ready-to-use release agent based on mineral oil, which can be used as a release oil to remove bitumen and asphalt contamination from asphalt pavers, asphalt mixing plants, tipper troughs and rollers.
TECTROL BITU CLEAN	Release and cleaning agent for bitumen and asphalt soiling of lorry platforms, rollers, asphalt pavers and bodywork.
TECTROL BITU WM PLUS	Release agent concentrate based on vegetable raw materials. Depending on the application, the concentrate can be mixed with water to form an emulsion. The product can be used as a release agent to remove bitumen and asphalt soiling from asphalt pavers, asphalt mixing plants, tipper troughs and rollers as well as rubber rollers.
TECTROL BITU WM	Water-miscible release agent based on vegetable raw materials for bitumen and asphalt.
TECTROL MISCHERSCHUTZ SPEZIAL	Universal mixer protection for concrete truck mixers, concrete pumps, concrete mixing plants, construction vehicles and tools.



You can find release agents in the section "Biodegradable lubricants"

12 Adhesive lubricants

Thanks to the wide range of possible applications, our adhesive oils are suitable for points of loss lubrication in open bearings, guides or bolts as well as for the lubrication of saw chains. In addition to excellent adhesion, the oils offer ideal corrosion protection, high wear protection and excellent resistance to ageing.

Adhesive lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL SÄGEKETTENÖL	High performance saw-chain oil based on mineral oil with excellent wear protection and high viscosity of 100 mm ² /s, reducing blade wear.	APPLICATION RECOMMENDATIONS: For power saws of the brands STIHL, HUSQVARNA, DOLMAR, SOLO and other manufacturers
TECTROL HAFTÖL ISO VG 220, 320, 460	High-performance lubricating, adhesive and creel oil for loss lubrication points.	



You can find saw-chain oils in the section "Biodegradable lubricants"



13 Radiator and windscreen antifreeze

The premium antifreeze agents of our TECTROL COOLPROTECT series meet all the requirements placed on modern high-tech antifreeze agents. The protection against corrosion, ageing, overheating and deposits in particular makes it possible to keep the entire cooling circuit running at all times, thereby achieving the optimum performance. Our TECTROL windscreen cleaners for use in windscreen and headlight cleaning systems offer year-round protection and clear vision. Dirt is removed quickly and without streaks, especially in difficult weather and environmental conditions.

Properties of the antifreeze

Silicate-based antifreeze:

- ✓ Silicate immediately forms a protective layer on the surface of components
- ✓ Highly effective on hot surfaces

Silicate-free antifreeze:

- ✓ Fewer deposits
- ✓ Excellent high temperature stability
- ✓ Takes longer to form protective layer on the surface of components but is more durable
- ✓ Longer operating times possible



Antifreeze concentrate

Product	Description	Tried and tested in units with lubricant specifications
<p>TECTROL COOLPROTECT</p> <p>This product is subject to the dispensing regulations of the German Chemicals Prohibition Ordinance (ChemVerbotsV).</p>	<p>Antifreeze agent with hybrid technology based on ethylene glycol, free from amines, nitrites and phosphates.</p>	<p>APPROVALS: CAT CG132 / CG170 / CG260, Deutz DQC CA-14, DTFR 29C100 (MB 325.0), MAN 324 Type NF, also for Pritarder, MTU / MTL 5048, MWM TR 0199-99-2091/9, Schnell CHP engines</p> <p>SPECIFICATION: AFNOR NF R 15-601, ASTM D 3306 / D 4985, CUNA NC 956-16, ÖNORM V 5123, SAE J1034</p> <p>APPLICATION RECOMMENDATIONS: Arnsberg District Council, mining and energy 84.12.22.63-2001-2, BMW GS 94000 / N 600 69.0, Federal Armed Forces TL 6850-0038/1, CNH New Holland MAT 3620 / MAT 3720, Jenbacher TA 1000-0201, LIEBHERR LH-00-COL3A / TLV 035 / TLV 23009 A, Opel B 040 0240, Saab 6901599, VW TL 774-C = G11</p>
<p>TECTROL COOLPROTECT OAT</p>	<p>Long-term premium antifreeze with OAT technology, based on ethylene glycol for internal combustion engines. Free from nitrite, amine, phosphate, borate and silicate. Excellent protection against frost, rust and overheating and effectively prevents corrosion and deposits in the cooling system.</p>	<p>SPECIFICATION: AFNOR NF R 15-601, ASTM D 3306 / D 4985, D 6210, CUNA NC 956-16, ÖNORM V 5123, SAE J1034</p> <p>APPLICATION RECOMMENDATIONS: CNH New Holland MAT 3624 / MAT 3724 / NH 900 C, Deutz DQC CB-14, DTFR 29C110 (MB 325.3), MAN 324 Type SNF, MTU / MTL 5048, VW TL 774-D / F = G12+</p>
<p>TECTROL COOLPROTECT SI-OAT</p>	<p>Long-term coolant with SI-OAT technology, based on ethylene glycol for combustion engines. Free from nitrite, amine and phosphate. Excellent protection for all engines, especially high-load aluminium engines, against frost, rust and overheating. Effectively prevents corrosion and deposits in the cooling system.</p>	<p>APPROVALS: DTFR 29C120 (MB 325.5), Deutz DQC CC-14, MAN 324 Type Si-OAT, MB approval 325.6</p> <p>SPECIFICATION: ASTM D 3306 / D 4985, CUNA NC 956-16, ÖNORM V 5123, SAE J1034</p> <p>APPLICATION RECOMMENDATIONS: Cummins CES 14603, MTU / MTL 5048, VW Audi Seat and Skoda / TL 774-G = G12++</p>
<p>TECTROL COOLPROTECT S</p>	<p>Antifreeze based on ethylene glycol for combustion engines. Free from silicate, borate, 2-ethylhexanoic acid, nitrite, amine and phosphate.</p>	<p>SPECIFICATION: AFNOR NF R 15-601, AS 2108-2004, ASTM D 1384 / D 3306, BS 6580, SAE J1034</p>

Antifreeze mixture

Product	Description	Tried and tested in units with lubricant specifications
<p>TECTROL COOLPROTECT-MIX 3000</p>	<p>Specially formulated OAT-based antifreeze mixture for immediate application in stationary combustion engines. The excellent product properties allow extended oil change intervals and protect all modern and high-load engines against deposits, cavitation and corrosion.</p>	<p>APPROVALS: MTU / MTL 5048</p> <p>APPLICATION RECOMMENDATIONS: DTFR 29C110 (MB 325.3), VW TL 774-D/F</p>
<p>TECTROL COOLPROTECT-MIX 3050</p>	<p>Specially formulated OAT-based antifreeze mixture for immediate application in passenger cars, commercial vehicles, construction and agricultural machinery. Reliably protects against damage caused by cavitation, overheating and frost. The product is free from silicate, is particularly durable and protects all common hose lines, seals and plastics. The water quality used has been individually adapted and, thanks to its special properties, enables safe and reliable operation.</p>	<p>SPECIFICATION: AFNOR NF R 15-601, ASTM D 3306 / D 3306 Type III / D 4985, D 6210 Type III FF, BS 6580, CUNA NC 956-16, ÖNORM V 5123, SAE J1034</p> <p>APPLICATION RECOMMENDATIONS: CNH New Holland MAT 3624 / MAT 3724 / NH 900 C, DAF 74002, Deutz DQC CB-14, DTFR 29C110 (MB 325.3) / DTFR 29D110 (MB 326.3), Fiat 9.55523, Ford WSS-M97B44-D2, Iveco 18-1830, MAN 324 Type SNF, MTU / MTL 5048, PSA B 71 5110, Toyota TSK 2601G-8A (without diesel), Volvo Coolant Standard VCS (STD 418-0001), VW TL 774-D/F = G12+</p>
<p>TECTROL COOLPROTECT-MIX 4050</p>	<p>Ready-to-use antifreeze mixture with SI-OAT technology for immediate application in passenger cars, commercial vehicles, construction and agricultural machinery. Reliably protects against damage caused by cavitation, overheating and frost. The product contains silicate, is particularly durable and protects all common hose lines, seals and plastics. The quality of the demineralised water used has been individually adapted and, thanks to its special properties, enables safe and reliable operation.</p>	<p>SPECIFICATION: AS 2108-2004, ASTM D 3306 / D 4985, BS 6580:2010, China GB 29743-2013, CUNA NC 956-16, JIS K 2234:2006, ÖNORM V 5123, SAE J1034</p> <p>APPLICATION RECOMMENDATIONS: CUMMINS CES 14603, Deutz DQC CC-14, DTFR 29C120 (MB 325.5), LIEBHERR LH-01-COL3A, MAN 324 Type Si-OAT, MTU / MTL 5048, VW 774-G = G12++</p>
<p>TECTROL COOLPROTECT-MIX 480</p> <p>This product is subject to the dispensing regulations of the German Chemicals Prohibition Ordinance (ChemVerbotsV).</p>	<p>Specially formulated hybrid-based antifreeze mixture for immediate application in stationary combustion engines. The excellent product properties protect all modern and high-load engines against deposits, cavitation and corrosion. The water quality used has been individually adapted and tested by leading engine manufacturers.</p>	<p>APPROVALS: Schnell CHP engines</p> <p>APPLICATION RECOMMENDATIONS: Deutz H-LV 0161 0188, Jenbacher TA 1000-0201, LIEBHERR Machines Bulle TLV 035 / TLV 23009 A, MAN 324 Type NF</p>

Antifreeze mixture

Product	Description	Tried and tested in units with lubricant specifications
TECTROL COOLPROTECT-MIX 4800	Hybrid-based antifreeze mixture specially prepared for MWM units for immediate use in stationary combustion engines. The excellent product properties protect against deposits, cavitation and corrosion. The water quality used has been individually adapted and complies with the engine manufacturer's guidelines. The product can be used in cooling systems A and B (without exhaust gas heat exchanger) as well as in cooling systems of category C (with exhaust gas heat exchanger).	APPROVALS: CAT CG132 / CG170 / CG260, MWM TR 0199-99-2091/9 APPLICATION RECOMMENDATIONS: MAN 342 Type NF

TECTROL COOLPROTECT-MIX 4850	Specially formulated hybrid-based antifreeze mixture for immediate application in passenger cars, commercial vehicles, construction and agricultural machinery. Reliably protects against damage caused by cavitation, overheating and frost. The product contains silicate, is particularly durable and protects all common hose lines, seals and plastics. The water quality used has been individually adapted and, thanks to its special properties, enables safe and reliable operation.	SPECIFICATION: AFNOR NF R 15-601 Type III, ASTM D 3306-05 Type III, ÖNORM V 5123, SAE J814 APPLICATION RECOMMENDATIONS: 2G requirement g-box 50, aura series, filius series, patruus series, agenitor series, avus 500plus, BMW GS 94000 / N 600 69.0, CNH New Holland MAT 3620 / MAT 3720, DAF 74001, Deutz DQC CA-14, MAN 324 Type NF, Opel B 040 0240, Porsche 924, 944, 968, 928, Saab 6901599, VW TL 774-C = G11, also recommended for Fendt
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NEW		
TECTROL COOLPROTECT-MIX 6440	Specially formulated PSI-OAT-based antifreeze mixture for immediate application in stationary combustion engines. It fulfils the special requirements of high-performance units and protects motors with high temperatures from the formation of corrosion and flux deposits (flux soldering aid). The water quality used has been individually adapted to achieve long lifetimes under high loads.	SPECIFICATION: AS 2108-2004, ASTM D 3306 / D 4985 / D 6210 / D 7583, China GB 29743-2013, ÖNORM V 5123 APPLICATION RECOMMENDATIONS: Jenbacher TA 1000-0200, MAN Energy Solution, MWM TR 2091

Antifreeze mixture

Product	Description	Tried and tested in units with lubricant specifications
NEW TECTROL COOLPROTECT-MIX 6450	Specially formulated OAT-based antifreeze mixture for immediate application in passenger cars, commercial vehicles, construction and agricultural machinery. It fulfils the special requirements and protects engines against the formation of corrosion and flux deposits (flux soldering aid). The water quality used has been individually adapted to achieve the necessary safety under high loads.	SPECIFICATION: ASTM D 3306 / D 4985 / D 6210 / D 7583, BS 6580, ÖNORM V 5123 APPLICATION RECOMMENDATIONS: Deutz DQC CC-14, John Deere from 2011, Lamborghini-Tractors from 04/2017, Same/Deutz/Fahr-Group from 04/2017, Volvo Cars TR-31854114-002, VW TL 774-L (colour different)

Antifreeze cleaner

Product	Description
TECTROL COOLPROTECT CLEAN	Spray and sprayer cleaner with easily biodegradable antifreeze. Free from nitrate, borate and mineral oil. Cleans and protects all spray and sprayer equipment against frost and corrosion. Deposits are effectively prevented in the spraying system. The product is particularly suitable for use in sprayers and spraying equipment in the agricultural and industrial sector.

Windscreen antifreeze

Product	Description
TECTROL SCHEIBENFROST-SCHUTZ	Windscreen antifreeze concentrate -60°C with pleasant fresh fragrance for windcreens and headlight cleaning systems, which can be used all year round. Excellent for windscreen washer systems with fan nozzles, polycarbonate windows are not attacked.
TECTROL SCHEIBENFROST-SCHUTZMIX -30°C	Windscreen antifreeze ready-mix with pleasant lime fragrance for windscreen and headlight cleaning systems. Ideally suited for windscreen washer systems with fan nozzles and polycarbonate. Does not attack paint and rubber.

14 Protection and care range

Our TECTROL care and protection range fulfils all requirements to ensure the value retention and operational safety of your vehicles and machines in the long term. The more sophisticated the technology, the higher the quality of care products must be in order to ensure the durability and long-term function. High-quality cleaning products simplify and shorten the work involved in removing dirt and residues. This ensures that we can maintain vehicles and machines in perfect condition for a long time. Our wide range of products covers all areas of application, from vehicle cleaning, workshop and industrial applications to food and animal feed processing companies.



Sprays

Product	Description	Area of application
TECTROL COCKPITSPRAY	Long-term surface care for the vehicle interior. Cleans, adds shine and preserves plastic surfaces, vinyl headliners, rubber mats, fittings, plastic, wood and leather parts (no fabric parts).	Vehicle interior
TECTROL FOOD FETTSpray	See food-grade lubricants.	Grease lubrication in food processing companies
TECTROL FOOD KETTENSpray	See food-grade lubricants.	Chain lubrication in food processing companies
TECTROL TERRA SPRÜHFETT 	See biodegradable lubricants.	
TECTROL KALTSTARTSPRAY	Starting aid for all combustion engines (car, motorbike, boat, tractor, lawn mower, lawn truck, snow blower and emergency generator). Does not attack plastics or rubber seals.	Internal combustion engines
TECTROL KETTENSpray	Long-term lubrication for chains, bearings, couplings, clutches and joints. Best adhesion, creep and flow properties.	Chain lubrication in general
TECTROL KONTAKTSPRAY	Improves electrical conductivity, eliminates voltage losses, prevents oxidation and displaces moisture.	Mechanical components
TECTROL LECKSUCHSPRAY	Detection of leaks in industry, trade, agriculture and household.	Universal
TECTROL MULTISPRAY XL	High-quality multifunctional spray with PTFE for versatile use in workshops and industrial applications. Used for maintenance and service in the bicycle, car, lorry, agricultural and leisure sectors.	Workshop, industry, leisure
TECTROL PTFE SPRAY XL	High-performance spray for professionals. For all lubrication work on moving parts with a lubricity from -30°C to +250°C. Very strong adhesion, good water and salt water resistance. Areas of application include forklift chains and slide rails.	Forklift chains and slide rails
TECTROL ROSTLÖSER HELL SPRAY	Low viscosity oil spray, silicone-free. Loosens tight and corroded connections. For cleaning, care and protection. For use in industry, trade, agriculture and household.	Universal

Sprays

Product	Description	Area of application
TECTROL ROSTLÖSER MOS SPRAY	Rust remover with increased wear protection and emergency operation properties. Displaces moisture and loosens tight screw connections. For use in industry, trade, agriculture and household.	Universal
TECTROL SILIKONSPRAY	Grease-free protective, sliding, release, insulating, lubricating agent and care product for metal, rubber and plastics. Water-repellent, antistatic and temperature-resistant.	Metal parts, rubber and plastics from all areas

Cleaners

Product	Description	Area of application
TECTROL BREMSENREINIGER	Special cleaner for degreasing disc brakes, brake pads and clutch linings.	Vehicles
TECTROL TERRA KALTREINIGER 	See biodegradable products, TECTROL TERRA KALTREINIGER.	Metal parts of all kinds
TECTROL SCHAUMREINIGER	Versatile foam cleaner for cars, household and sports equipment.	Car, home and sports
TECTROL POWER CLEAN ECO	Non-labelled special cleaner with a wide range of applications. Due to the NSF certification also suitable for food and feed processing companies with ingredients based on renewable raw materials.	Food processing companies
TECTROL POWER CLEAN GREEN	Universal cleaner for industry, trade, agriculture and workshop floors, biodegradable, especially compatible with aluminium, stainless steel and plastics.	Universal in all areas
TECTROL POWER CLEAN PRO	Ready-to-use spray-on vehicle cleaner for interior and exterior use. Gives surfaces a high gloss without adding water.	Vehicle cleaning inside and outside
TECTROL POWER CLEAN UNI	Highly concentrated cleaner with drying and shine additives (3-in-1 effect). Especially suitable for main cleaning in lorry and car washes, in the pre-soak arch and for manual washing.	Vehicle cleaning outside
TECTROL POWER CLEAN WASH TOP	Shampoo car cleaner with a shine effect for hand washing and car washes with strong foaming.	Vehicle cleaning outside

Corrosion protection

Product	Description
TECTROL KORROSIONSSCHUTZ HELL	Odourless, non-resinous, thin-bodied, oily corrosion protection for versatile use in industry, municipalities, agriculture and in transport fleets.
TECTROL ROSTLÖSER HELL	Light spraying fluid with water displacing and corrosion protecting properties, multifunctional.

15 Oil binding agents

Whether at work in agriculture, industry, trade, on roads or other traffic areas: Our TECTROL oil binding agents are universally applicable and allow fast product absorption. The innovative product properties ensure reliable containment and elimination of liquid leaks.

Properties of the oil binding agents

- ✓ Fast and highly absorbent
- ✓ Odour-neutralising
- ✓ Water-repellent
- ✓ Floatable
- ✓ Different particle sizes available
- ✓ Ideally suited for tiles and sealed workshop floors

Product	Description
TECTROL ÖLBINDER S	Oil binding agent based on polyurethane, water-repellent and floatable. Classification criterion for oil binders type I, II, III R SF. Areas of application: industry, trade and roads. Specially suitable also for wet environmental conditions, oil absorption is hardly reduced by the presence of water.
TECTROL ÖLBINDER F	Oil binding agent based on moler/diatomaceous earth, classification criterion for oil binding agent type III R. Areas of application: industry, trade and roads. In addition to oils, acids and alkalis, the product can also be used for flammable, combustible and aqueous liquids.
TECTROL ÖLBINDER U	Oil binding agent based on calcium silicate hydrate. Classification criterion for oil binding agents Type III R. Areas of application: industry, trade and roads. It is also suitable for oils, waste oils, greases, alkalis as well as varnishes and paints.



16 Special fuels

Our high-quality products help you maximise the performance of your equipment while minimising emissions. TECTROL ECO PETROL is manufactured synthetically from the pure gases produced during the refining of crude oil. This makes them a very clean fuel (alkylate petrol). TECTROL ECO DIESEL is made from renewable raw materials and combusts with significantly lower emissions and odour than conventional diesel fuels.

Rely on TECTROL special fuels and contribute to the protection of people and the environment:

TECTROL ECO BENZIN:

- ✓ Significantly reduced emissions
- ✓ Non-environmentally hazardous according to GHS
- ✓ High purity fuel

TECTROL ECO DIESEL:

- ✓ High ageing stability
- ✓ No risk of diesel contamination
- ✓ Excellent cooling performance



Special fuels

Product	Description	Tried and tested in units with lubricant specifications
TECTROL ECO BENZIN 2 PLUS 	<p>Ready-to-use special fuel mixture for two-stroke engines with the mixing ratios 1:25 to 1:100. Helps to protect environment and health. Optimised ignitability and efficient combustion increase engine performance and service life.</p>	<p>APPROVALS: Emak efco / Oleo-Mac, kwf seal of approval (Advisory Board for Forestry)</p> <p>APPLICATION RECOMMENDATIONS: DIN 51 641 (German standard), SN 181163 (Swiss standard), SS 15 54 61 (Swedish standard), Ziegler TS 2/5 Ultra-Pico, also ideally suited for two-stroke engine-driven equipment of the brands STIHL, HUSQVARNA, DOLMAR, SOLO and other brand manufacturers</p>
TECTROL ECO BENZIN 4 	<p>Pollutant-reduced special fuel for use in four-stroke engines of e.g. finger-bar and lawn mowers, scarifiers, brush cutters, etc. The use of high-quality raw materials protects people, health, environment and machinery.</p>	<p>APPROVALS: kwf seal of approval (Advisory Board for Forestry)</p> <p>APPLICATION RECOMMENDATIONS: DIN 51 641 (German standard), SN 181163 (Swiss standard), SS 15 54 61 (Swedish standard), Ziegler TS 6/6 Ultra-Compact / TS 8/8 Ultra-Light / TS 8/8 Ultrapower, also ideally suited for four-stroke engines of the brands AGRIA, ALKO, BRIGGS & STRATTON, DOLMAR, HONDA, HUSQVARNA, MOTEC, SOLO, STIHL, TORO, YAMATSU, YANMAR and many other brand manufacturers</p>
TECTROL ECO DIESEL	<p>High-performance fuel for diesel engines, obtained from biogenic residues. A sustainable fuel that offers many advantages, is produced using state-of-the-art technology and protects the environment by reducing greenhouse gases. Can be used in all common diesel engines without conversion or changeover.</p>	<p>Complies with DIN EN 15940 Class A (HVO) HVO-Hydrotreated Vegetable Oil is approved by well-known manufacturers such as MB, MAN, Volvo, Deutz, Valtra, Fendt, Liebherr, Scania, etc.</p>

17 Food-grade lubricants

For use in the food processing and animal feed production industry and agriculture, quality, reliability and safety are crucial for lubricants in order to meet increasing requirements for product hygiene and production volume. Our TECTROL FOOD products meet the standards defined by the NSF and are H1 certified.

The benefits of TECTROL FOOD:

- ✓ Technically sophisticated high-tech lubricants
- ✓ Excellent wear and corrosion protection
- ✓ Physiologically harmless, safe for humans and animals
- ✓ NSF H1 certified
- ✓ Higher efficiency compared to conventional products
- ✓ Satisfies legal requirements



Food-grade lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL FOOD HYDRAULIKÖL HVLP ISO VG 46 	Fully synthetic hydraulic oil with high-quality additives, developed for use in the food, beverage, feed and packaging industries.	APPROVALS: NSF H1 147630 SPECIFICATION: DIN 51 524-3 HVLP
TECTROL FOOD INDUSTRIEGETRIEBEÖL CLP ISO VG 150, 220 	Fully synthetic high-performance transmission oil, specially developed for use in the food processing industry.	APPROVALS: NSF H1 SPECIFICATION: DIN 51 517-3 CLP
TECTROL FOOD HOCHLEISTUNGSSCHMIERFETT 	Fully synthetic aluminium-complex soap grease with white solid lubricants for use in food processing companies under stringent conditions. The grease has excellent EP properties, is resistant to water, water vapour, fruit acids and is H1 registered with the NSF.	APPROVALS: NSF H1 147636 SPECIFICATION: DIN 51 502 KHC PF2 N-40, ISO-L-X-DDHB 2 APPLICATION RECOMMENDATIONS: Operating temperature range -40°C to +150°C, short-term +200°C
TECTROL FOOD FETTSPRAY 	Particularly high-quality grease spray for all applications in food processing companies. The grease has excellent temperature properties, is resistant to water, high pressure and is H1 registered with the NSF.	APPROVALS: NSF H1 147639 APPLICATION RECOMMENDATIONS: Operating temperature range -50°C to +180°C, short-term +220°C
TECTROL FOOD SPRÜHÖL 	Physiologically harmless, colourless synthetic oil that can be used for the lubrication and maintenance of joints and all moving parts.	APPROVALS: NSF H1 147641

Food-grade lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL FOOD KETTENSPRAY 	Physiologically harmless synthetic adhesive lubricant for the food processing industry for the lubrication of chains, ropes and open drives.	APPROVALS: NSF H1 147624 APPLICATION RECOMMENDATIONS: Application/operating temperature range -25°C to +180°C
TECTROL POWER CLEAN ECO 	Non-labelled special cleaner for food processing companies.	APPROVALS: NSF A1 157460

18 Biodegradable Lubricants

A clean, healthy nature and environmental balance are the basis for sustainable business.

Our TERRA product line offers products for numerous applications:

- ✓ Hydraulic oils
- ✓ Lubricating greases
- ✓ Special lubricants

The benefits of TECTROL TERRA:

- ✓ Environmentally safe
- ✓ Quickly biodegradable
- ✓ High efficiency
- ✓ High ageing stability
- ✓ Excellent corrosion protection
- ✓ Excellent temperature performance
- ✓ Technically sophisticated and field-tested
- ✓ Simplify varieties needed thanks to multi-grade oils



Minimum impact on people and the environment: Biodegradable lubricants from TECTROL



Biodegradable lubricants

Product	Description	Tried and tested in units with lubricant specifications
NEW		
TECTROL TERRA HYD SYNTH ISO VG 46 	Environmentally-friendly multi-grade hydraulic oil based on renewable raw materials, offers a wide range of uses in stationary and mobile hydraulic systems such as applications at sea, in forestry, agriculture and construction. Its use is also beneficial in industry for injection moulding machines, presses and other highly loaded hydraulic systems. Thanks to its physiological harmlessness, TECTROL TERRA HYD SYNTH is also suitable for use in food and feed processing companies.	APPROVALS: EU Ecolabel, H1 registration DJ3126101, PARKER Denison HF-0 / HF-6e SPECIFICATION: DIN 51 524-3 HVLP, ISO 11158 HV / 15380 HEPR APPLICATION RECOMMENDATIONS: AIST 126 / 127, CAT BF-1 / BF-2, Cincinnati Milacron P70, CNH New Holland MAT 309, Danfoss Power Solutions 52OL0463, DIN 51 524-2 HLP VG 32-68, EATON Brochure 03-401-2010 Rev.1 / E-FDGN-TB-002-E, German Steel SEB 181222, PARKER Denison HF-1 / HF-2, SIS SS 155434, ZF TE-ML 07H, also recommended (with corresponding lubricant specifications) for ENGEL / Komatsu Forest / Palfinger / Poclairn Hydraulics / Volvo Hydraulics
TECTROL TERRA HYD SUPER S ISO VG 46 	Environmentally-friendly multi-grade hydraulic oil based on saturated synthetic esters mainly from renewable raw materials, predominantly for use in mobile hydraulic power units operating in environmentally sensitive areas, but also in other hydraulic power units.	SPECIFICATION: ISO 15380 HEES APPLICATION RECOMMENDATIONS: CAT BF-1 / BF-2, DIN 51 524-2 HLP VG 32-68, DIN 51 524-3 HVLP, EATON Brochure 03-401-2010 Rev.1, PARKER Denison HF-1 / HF-2 / HF-6 - D943-dry, SS 15 54 34 AAV 46, also recommended (with corresponding lubricant specification) for Fendt / Kramer Allrad / O&K Baumaschinen / Palfinger / Ponsse / Sauer Danfoss / Timberjack / Valmet
TECTROL TERRA HYD S ISO VG 46 	Environmentally-friendly ester-based multi-grade hydraulic oil for agricultural, forestry, construction and municipal machinery – quickly biodegradable.	SPECIFICATION: DIN 51 524-3 HVLP, ISO 15380 HEES, ISO 3448 ISO VG 46, VDMA 24568 APPLICATION RECOMMENDATIONS: DIN 51 524-2 HLP / HLP VG 32-68

Biodegradable lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL TERRA SPEZIAL-FETT 2 PLUS NLGI 2 	Quickly biodegradable long-life lubricating grease based on synthetic ester for the lubrication of all types of rolling and plain bearings. Very water-resistant, excellent lubricating properties, good corrosion protection, easy to pump and excellent adhesion.	SPECIFICATION: DIN 51 502 KPE 2 K-30, ISO-L-X-CCFB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -30°C to +120°C
TECTROL TERRA SPEZIAL-FETT 2 S NLGI 2 	Quickly biodegradable long-life lubricating grease based on synthetic ester for the lubrication of all types of rolling and plain bearings. Very water-resistant, excellent lubricating properties, good corrosion protection, easy to pump and excellent adhesion.	SPECIFICATION: DIN 51 502 KPE 2 K-40, ISO-L-X-DCEB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -40°C to +120°C, MAN 283 Li-P 2-B
TECTROL TERRA MULTI-FETT 1 N NLGI 1 	Calcium-saponified lubricating grease based on rapeseed oil for loss lubrication in agricultural, forestry, construction and municipal machinery – environmentally-friendly because it is rapidly biodegradable, application e.g. in sewage treatment plants, sluice gates, chains, etc.	SPECIFICATION: ISO-L-X-B(F)BEA 1 APPLICATION RECOMMENDATIONS: Application/operating temperature range -20°C to +80°C
TECTROL TERRA MULTI-FETT 2 N NLGI 2 	Calcium-saponified lubricating grease based on rapeseed oil for loss lubrication in agricultural, forestry, construction and municipal machinery – environmentally-friendly because it is rapidly biodegradable, application e.g. in sewage treatment plants, sluice gates, chains, etc.	SPECIFICATION: ISO-L-X-B(F)BEA 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -20°C to +80°C

Biodegradable lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL TERRA SÄGEKETTENÖL BLUE 	Quickly biodegradable saw-chain adhesive oil based on native vegetable oils for professional use in power saws. Awarded with the Blue Angel eco-label (RAL-ZU 178) and the EU Ecolabel (EU Flower). The product has been tested by the Advisory Board for Forestry (KWF) and has been awarded the KWF certification mark.	APPLICATION RECOMMENDATIONS: For power saws of the brands STIHL, HUSQVARNA, DOLMAR, SOLO and other manufacturers
TECTROL TERRA SÄGEKETTENÖL 	Saw-chain oil based on vegetable oil, quickly biodegradable.	APPLICATION RECOMMENDATIONS: For power saws of the brands STIHL, HUSQVARNA, DOLMAR, SOLO and other manufacturers
TECTROL TERRA SÄGEKETTENÖL 	Special saw-chain adhesive oil for harvester use – biodegradable.	
TECTROL TERRA LUBE 530 ISO VG 46 	Environmentally-friendly biodegradable corrosion inhibitor and rust remover based on renewable raw materials.	
TECTROL TERRA SPRÜHÖL S 	Environmentally-friendly, biodegradable corrosion inhibitor and rust remover based on renewable raw materials.	
TECTROL TERRA SPRÜHFETT 	Environmentally-friendly, quickly biodegradable spray grease. Lubricates and protects, reduces friction and wear.	SPECIFICATION: DIN 51 502 KXP 2 G-20, ISO -L-X-BBEB 2 APPLICATION RECOMMENDATIONS: Application/operating temperature range -20°C to +100°C, +120°C for a short time

Biodegradable lubricants

Product	Description	Tried and tested in units with lubricant specifications
TECTROL TERRA BETO 480 	Biodegradable universal release agent with Blue Angel label. Can be used for all types of formwork in building construction and civil engineering. It can be used for all common types of formwork.	
TECTROL TERRA BETO 600 	Quickly biodegradable release agent based on environmentally-friendly raw materials. It is suitable for all common formwork systems.	APPLICATION RECOMMENDATIONS: Before using the release agent, a test should be carried out.
TECTROL TERRA SCHALUNGSÖL-SN 	Release agent for wood and metal formwork, mixer protection, based on environmentally-friendly raw materials – biodegradable, with EU Ecolabel.	
NEW TECTROL TERRA KALTREINIGER 	Dissolves greasy and oily dirt from metal parts, engines, machines and tools. It is especially suitable for cleaning car and commercial vehicle engines, drive units, vehicle underbodies, construction and agricultural machinery, also for use in open washing systems. The cleaner is also based on biodegradable components and is non-labelled.	

Do you have questions about our products?

Our technical lubricant consultants will be happy to advise you on the correct use of our lubricants. They will be pleased to assist you in finding a solution to your individual requirements.

info@tectrol.de

www.tectrol.de

BayWa AG

Heating | Mobility

International Sales & Strategic Accounts Lubricants

Lubricants

Max-von-Laue-Str. 12

97080 Würzburg

Sales via public limited companies BayWa and AGRAVIS

Expert advice

You can buy our products and use our services throughout Germany and neighbouring countries. More than 100 expert consultants are at your disposal.

Points of contact – Germany

Baden-Württemberg, Bavaria, Brandenburg (South), Hesse, Saxony, Thuringia, North Rhine-Westphalia (West), Rhineland-Palatinate, Saarland	BayWa AG Energie phone: 0800 7 236 999 (free of charge from the German landline network)
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North Rhine-Westphalia (Central/East), Lower Saxony, parts of Saxony-Anhalt and parts of Brandenburg	AGRAVIS Raiffeisen AG, Hanover, phone: +49 511 80 753 461
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Rhineland-Palatinate	P&M Lubri-Tec Sàrl, L-9749 Fischbach, phone: +352 26 90 46 89 Raiffeisen Hunsrück Handelsgesellschaft mbH, 56291 Lingerhahn, phone: +49 (0) 674 63 45 139
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Schleswig-Holstein, Mecklenburg-Western Pomerania	Gebr. Honnens GmbH, 24963 Tarp, phone: + 49 4638 213 55 0
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Points of contact – International

Belgium	KOCKELMANN Lubricants, B-6671 Courtil, phone: +32 80 559 057
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Bulgaria	Stoychevi, Dobrich 9300, phone: +359 88 586 2558
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Italy (except South Tyrol)	Tamoil Italia SpA, Milan, phone: +392 268 16718
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Croatia	DUING d. o. o. phone: +385 51 682 492
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Luxembourg	P&M Lubri-Tec Sàrl, L-9749 Fischbach, phone: +352 26 90 46 89
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Netherlands	Abemec, 5462 GG Veghel, phone: +31 413 38 29 11 Rijnen BV, 5047 TX, Tilburg, phone: +31 (0) 135 422 284
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Austria	Unser Lagerhaus Warenhandelsgesellschaft mbH, Klagenfurt, phone: +43 664 3252703
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Switzerland	LAVEBA Genossenschaft, 9001 St. Gallen, phone: +41 58 400 66 95
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Singapore/Thailand/Indonesia/Malaysia/Myanmar	HAUSAUTO PTE LTD, Singapore, phone: +65 9187 88 10
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South Tyrol	Consorzio Agrario, Bozen, phone: +39 0471 926 902
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Taiwan	Best fox-oil energy company, 00220 New Taipei City, phone: +886 934277681
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Czech Republic, Slovakia	I. O. B., spol s. r. o., phone: +420 724 534 716
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Hungary	KSZE-Gépipari Szolgáltató és Kereskedelmi Kft., 7100 Szekszárd, phone: +36 30959 8234
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