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FOCUS ON BIODEGRADABILITY
**GREEN EXPERTISE
SINCE 1988**



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MOTO LINE

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ROAD WIDENERS

A shoulder
for the road

THE BEST CARE FOR LOYAL SERVANTS

FARMER LINE



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EDITORIAL



REWARDING DEVELOPMENT WORK



Valued customers, dear readers,

Ever since I joined MOTOREX I've been involved in developing and applying biodegradable products. These products are a key element in MOTOREX's sustainability strategy. Over the years, the hard work of the various departments has resulted in an extensive portfolio of readily biodegradable and environmentally friendly products for a broad range of applications (see centerfold). These products ideally complement the existing, ever-growing product range. Along with the environment, our development work always focuses on product benefits.

As a development chemist, I see work in my field as a big challenge. In addition to know-how, time, and persistence, it takes close teamwork from everyone involved, including suppliers, external labs and MOTOREX technical experts, as well as our customers. Customers have specific technical requirements that we have to meet, including manufacturers' specifications. This point is especially important, since an environmentally friendly lubricant will only succeed in the real world if it meets all technical requirements without exception.

Issues like sustainability, pollution, renewability and CO₂ emissions are becoming increasingly important. And regulatory demands are intensifying while environmental standards become stricter. Overall, this will lead to a transformation requiring an open mind and ability to adapt to change. We at the MOTOREX development team wholeheartedly embrace the rewarding work of creating sustainable lubricant solutions.

Dr. William Wright
R&D Chemist
MOTOREX AG

MOTOREX IN THE NEWS

- ✓ VERY GOOD CORROSION-PROOFING
- ✓ IDEAL LUBRICANT PROPERTIES
- ✓ GENTLE ON MATERIALS
- ✓ READILY BIODEGRADABLE
- ✓ PROPELLANT-FREE PUMP SPRAY



TIME FOR GARDEN TOOL CARE

After winter pruning, spring ushers in the gardening season with freshly lubricated tools and devices. MOTOREX GARDEN TOOL CARE cleans, lubricates, and preserves efficiently and sustainably. The readily biodegradable (OECD 301 B) lubricant in the 250-ml pump spray bottle uses no propellants. Its compact dimensions make it easy to carry along. Real pros, by the way, treat their tools both before and after working with them.



- ✓ HIGH PROCESS RELIABILITY
- ✓ FREE OF BORIC ACIDS, AMINES, AND FORMALDEHYDE RESIDUES
- ✓ NON-TOXIC
- ✓ HIGHLY EFFECTIVE CORROSION-PROOFING
- ✓ EXCELLENT BIOSTABILITY

FOR LIGHT AND NON-FERROUS METALS: MOTOREX SWISSCOOL UX 700 AF

MOTOREX SWISSCOOL UX 700 AF is a water-miscible machining fluid ideal for working non-ferrous metals. Its balanced formula gives it a wide range of positive characteristics. SWISSCOOL UX 700 AF is an excellent choice for mixed operations, i.e. reliable machining of non-ferrous metals, aluminum, and steel (including high-alloy steels). The new emulsifier system not only enables an extremely stable combination of oil and water, but also boosts lubricant performance. The technology simultaneously provides good rinsing with optimum wetting of workpieces and tools. Success is guaranteed.



- ✓ CO₂ REDUCTION SINCE 1944
- ✓ LESS ROAD TRAFFIC

RAIL TRANSPORT LOWERS EMISSIONS

By shipping the large quantities of base oils and other raw materials used in production in Langenthal by rail, MOTOREX measurably reduces emissions. Since 1944 MOTOREX has had its own rail spur, which it uses specifically for deliveries of raw materials. With a lubricant production volume on the order of 40,000 tonnes per year, the number of 20/50-tonne tank cars delivered annually is considerable. The result for 2021 was some 38 tonnes of CO₂ emissions saved, calculated using Eco-Transit figures (ecotransit.org). Every contribution to protecting the climate counts.



- ✓ REMOVES STUBBORN DIRT
- ✓ DEGREASES AND CLEANS CONTACTS
- ✓ DIELECTRIC (NON-CONDUCTIVE)
- ✓ FOOD-SAFE

DEGREASING AND CLEANING IN FOOD PREPARATION AREAS

MOTOREX POWER CLEAN cleans and degreases nearly anything in seconds. It even removes tar, grease, and oil. The multitasking cleaner is now 2Probiy and NSF certified, making it safe for incidental contact with food and feedstuffs, pharmaceuticals, etc. What's more, a ball valve built into the spray head allows POWER CLEAN to be used in a 360° range of positions. Clean as a whistle!



2Probiy.eu/
certificates



Nonfood compounds
Program listed



© RWella AG

- ✓ BIKE CLEAN REFILL 2L
- ✓ BIKE PROTECT 300 ML
- ✓ CHAINLUBE WITH PTFE 300/100 ML
- ✓ ANTI SEIZE 100G

THE LATEST BIKES' BEST BUDDIES

MOTOREX is expanding the comprehensive BIKE LINE even further: The new transparent 2-liter refill pouch for readily biodegradable (and now green) BIKE CLEAN bicycle cleaner shows the current fill level at a glance. Newly developed BIKE PROTECT in the 300-ml spray can effortlessly prevent corrosion and heavy dirt adhesion. The biodegradable protective fluid forms a thin oily film and is perfect for preserving bikes. The new CHAINLUBE WITH PTFE chain lubricant reduces friction between the chain and wetted components. Already it's an insider tip among road racers for getting more speed from less effort. Available in a 300-ml spray and in a new 100-ml bottle with a handy applicator. Using ANTI SEIZE assembly paste when fastening aluminum parts to parts made of other metals guarantees easy disassembly later. It's easy to apply just the right amount from the 100-g brush can. Depending on the market, these products will be available from early summer onwards.

bit.ly/3kHUNg9

THE MOTOREX CLEANER-UPPERS

On-road or off, riding a motorcycle always leaves traces. It's a good thing the constantly improved, readily biodegradable motorcycle cleaner and new care products from the MOTOREX MOTO LINE are around. Gleaming results and unsullied joy in the passion of motorcycling are guaranteed.



MOTO CLEAN PLUS

- ✓ EXTREME CLEANING PERFORMANCE
- ✓ FOR STUBBORN DIRT
- ✓ READILY BIODEGRADABLE
- ✓ VOC AND PHOSPHATE FREE

MOTO CLEAN PLUS (formerly MOTO CLEAN) is a fast-acting motorcycle cleaner made from biodegradable ingredients. Potent cleaning power yields excellent results after a brief soak. The cleaner can be used pure or diluted with water (1:3). A quality 1-liter spray bottle allows MOTO CLEAN PLUS to be applied sparingly. Its 360° design means it can even be used upside-down. The sturdy and quality spray head can be refilled again from a 5-liter container.

NEW PACKAGE



MOTO CLEAN UNIVERSAL

- ✓ IDEAL FOR OFFROAD BIKES
- ✓ POWERFUL CLEANING PERFORMANCE
- ✓ GENTLE FORMULA
- ✓ READILY BIODEGRADABLE
- ✓ VOC AND PHOSPHATE FREE

The new MOTO CLEAN UNIVERSAL motorcycle cleaner was developed especially for the needs of the offroad community, with extra-penetrating, dirt-dissolving, and detergent ingredients. The new formula and concentration are precisely tuned for offroad motorcycles, which are washed more often than other bikes. Available in a refillable 1-liter handheld spray bottle and in a generous 5-liter container.

ALL NEW



MOTO SHINE MS1

- ✓ FOR A HIGH GLOSS FINISH
- ✓ FORMS A PROTECTIVE ANTISTATIC FILM
- ✓ FOR PAINT, CHROME, PLASTICS, AND MUCH MORE
- ✓ CHERRY SCENT

MOTO SHINE MS1 cares, preserves, and forms a perfect protective antistatic film, giving treated surfaces a dust and dirt repellent effect. Surfaces treated with MOTO SHINE MS1 excel on account of their brilliance, depth of color and high gloss – while exuding a pleasant cherry aroma. And the practical 500-ml spray can is easy to use – even upside-down.



ALL NEW

MOTO PROTECT

- ✓ PREVENTS HEAVY DIRT ADHESION
- ✓ PRESERVES DURING LENGTHY STORAGE PERIODS
- ✓ FOR PAINT, CHROME, PLASTICS, AND MUCH MORE
- ✓ READILY BIODEGRADABLE

MOTO PROTECT prevents stubborn dirt adhesion in off-road use and is ideal for preserving motorcycles during lengthy storage periods. MOTO PROTECT repels moisture and leaves a fine oil film that protects treated surfaces against corrosion. The practical 500-ml spray can will also work when used upside-down.



NEW FORMULA

Depending on the market, the new products will be available from early summer onward and will gradually replace existing products. •



Conscious of its responsibilities when working around water, SAGRAVE SA depends on the benefits of MOTOREX ECOSYNT HEES 46.

RESPONSIBILITY AT THE LAKESIDE

“On est bien, sur l’eau,” is how Claude Goulet, head of the gravel plant at Le Bouveret (CH), close to where the Rhone flows into Lake Geneva, sums up SAGRAVE SA's activities. Founded in 1910, the family business has ample experience and skill in water-related construction projects. For hydraulic power transmission the company uses readily biodegradable MOTOREX ECOSYNT HEES for an extra measure of safety.

The Caterpillar® 345C's scoop plunges doggedly through the water's surface. With its finely tuned hydraulic systems and prodigious lifting and digging power, the heavy hydraulic excavator lifts rock, gravel, and sand by the ton onto its barge, hour after hour. At

several locations on Lake Geneva, SAGRAVE SA operates in the following areas:

- **Extraction, processing, and transport of rocky materials**
- **Construction of ports, embankments, etc.**



"We can count on the hydraulic system's high reliability in all operating conditions."

Claude Goulet (photo right)

A MUST NEAR THE WATER

Claude Goulet has many years of experience in his domain. For over 15 years he has brought a pronounced respect towards nature to his work at SAGRAVE SA. Wherever the technology permits, the company uses biodegradable lubricants near the water. From his real-world user perspective, Goulet is aware of the years of ongoing development these products have undergone and today considers them "full-fledged alternatives."

MOTOREX ECOSYNT HEES 46

MOTOREX ECOSYNT HEES owes its beneficial properties to the use of synthetic saturated ester fluids (HEES = Hydraulic Environmental Ester Synthetic) and a balanced, zinc-free combination of additives. The result is highly reliable lubrication and excellent shear stability at both elevated and very low operating temperatures. ECOSYNT HEES also offers high performance reserves in continuous heavy-duty operation. Further benefits of the green pressure fluid from MOTOREX include:

- Readily biodegradable (OECD 301 B)
- EAL approved
- Designed for long-life use
- Wide operating temperature range
- Excellent filterability
- High shear stability (stay-in-grade)
- Very good protection against wear
- Outstanding material compatibility (with gaskets, hoses, etc.)

MAINTENANCE PAYS OFF

Water has a critical impact on hydraulic fluid. Through condensation, unprotected vent openings, or external influences, water can penetrate even into closed systems. As a result, filtration and regular checks via MOTOREX lab analysis are essential. Your hydraulic system will reward conscientious monitoring and maintenance with reliability and a long fluid service life.

Just what you need to be in your element while working on the water. ●



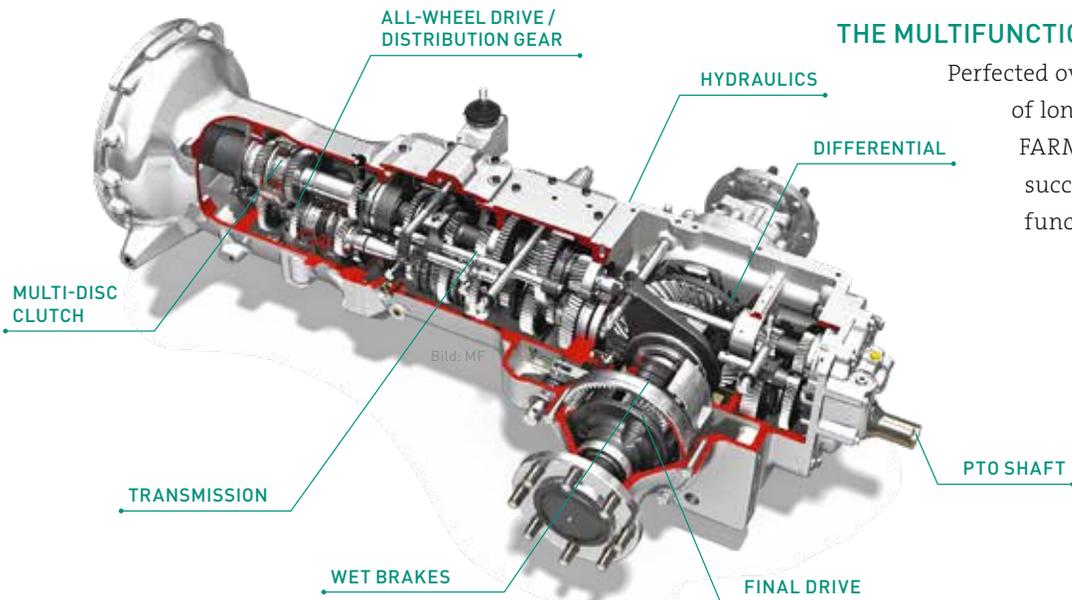
MOTOREX
hydraulic fluids
bit.ly/30Zv4xq



FARMER POLY 604 SETS THE UTTO STANDARD

Heavy-duty service in transmissions, axles, differentials, distribution gearing and final drives with wet brakes, and hydraulics, all with one and the same oil — that's a job only a UTTO (universal tractor transmission oil) can handle. MOTOREX FARMER POLY 604 sets the standard for all UTTO applications.

Operating with heavy attachments on steep slopes or challenging braking maneuvers with heavy loads in road traffic can test the limits of a multifunctional oil for agricultural equipment. The top-notch characteristics of the powerful MOTOREX FARMER POLY 604 multirange UTTO oil are ideal for the lubrication needs of all the relevant component groups.



THE MULTIFUNCTIONAL OIL IN THE REAL WORLD

Perfected over years of development with the aid of long-term real-world testing, MOTOREX FARMER POLY 604 has found international success thanks to its sophisticated multifunctional technology.



GEARING

Shifting in many modern gearboxes is done with electro-hydraulics. The high circumferential speeds of gears in reduction gear assemblies require a heavy-duty lubricant film, while synchronization demands a fine-tuned additive package. Extreme shear forces, such as those that occur in the differential, also need to be cushioned to minimize wear.

“With FARMER POLY 604, shifting processes in the various types of gearboxes are precise and soft, even under load and whether the gears are cold or hot. It’s just great!”

 *Beat Glauser, Glauser Landtechnik GmbH, Gurmels, Switzerland*



CLUTCHES

Qualities that are beneficial in a gear oil can be counterproductive in wet brakes or multi-disc clutches. Here the choice of additives is again key. On the gearing side, FARMER POLY 604 meets extreme requirements. At the same time it also provides the desired friction coefficients in wet brakes and progressive, non-slipping adhesion in multi-disc clutches.

“MOTOREX FARMER POLY 604 is a multifunctional oil that lives up to the name. We’re impressed by its capabilities in transmitting power and used in wet brakes.”

 *L. Prinz and G. Czompa, farm equipment suppliers in Langenlois, Austria*



HYDRAULICS

In hydraulic systems the UTTO oil transmits powerful forces. FARMER POLY 604 meets the HVLP-D hydraulic oil specifications under DIN 51502. The formula is winning fans with its very stable viscosity-temperature curve, good water absorption capacity and effective protection against wear and corrosion.

“Extreme temperatures are common in Sweden. With FARMER POLY 604, hydraulic functions are guaranteed from the very start and can be precisely controlled.”

 *M. Hjert-Herlogsson, Andrésen Maskin AB, Uddevalla, Sweden*



MOTOREX FARMER POLY 604

- ✓ EXTREMELY SHEAR-STABLE
- ✓ EASY SHIFTING
- ✓ VERY EFFECTIVE AT LOW TEMPERATURES
- ✓ IDEAL BRAKING
- ✓ PREVENTS BRAKE RATTLING
- ✓ EFFECTIVE PROTECTION AGAINST WEAR AND CORROSION
- ✓ MEETS A WIDE RANGE OF SPECIFICATIONS

Your MOTOREX representative will be glad to provide further information. ●



For more information see bit.ly/3MVbjpf



GREEN EXPERTISE SINCE 1988

Our corporate color is green. For over half a century we have considered it a symbol of our commitment to people and the environment. We began by focusing on improving the environmental safety of total-loss lubrication applications, in which lubricants come into direct contact with the environment. In 1988, for example, we developed the first readily biodegradable chainsaw lubricant based on rapeseed oil.

Ten years later, in 1998, this was followed by a whole family of environmentally friendly products for two-wheeled vehicles, forestry, and gardening. By now the share of products we deliver that is readily biodegradable has grown tenfold – a noteworthy success inspiring us at MOTOREX to continue along this path.

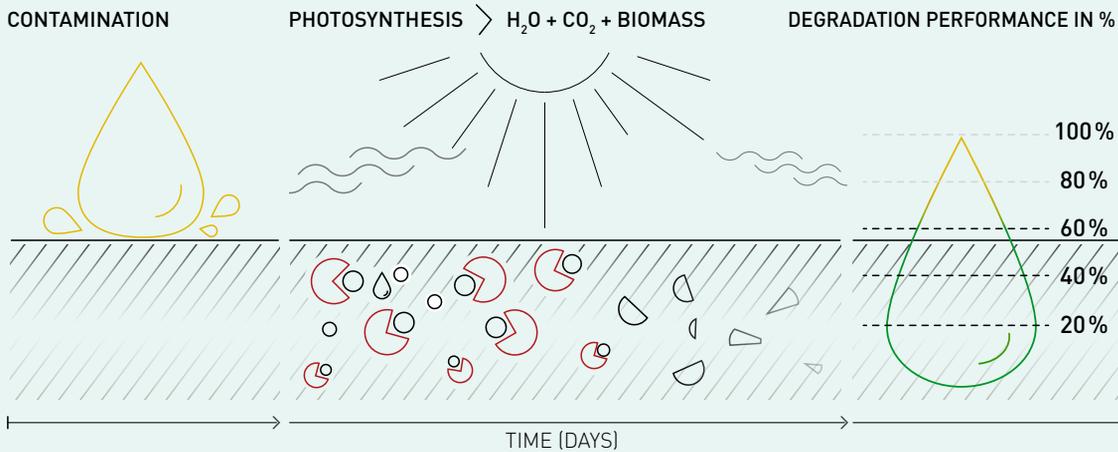


WHAT DOES BIODEGRADABLE MEAN?

Biodegradability refers to the chemical breakdown of substances by natural organisms such as bacteria, yeasts, and fungi in combination with oxygen and light. Mineral oils are only slowly and incompletely degraded by these organisms. Readily biodegradable products, by contrast, are formulated to ensure a complete degradation process. Biodegradability can be measured using various internationally standardized testing processes.



THE BIODEGRADATION PROCESS



In the OECD* 301 B "storm test" (picture above), biodegradability is determined by measuring how much CO_2 is released over a 28-day period. In full degradation, a readily biodegradable hydraulic fluid completely decomposes into carbon dioxide, water, and biomass.

OECD* = Organization for Economic Cooperation and Development

ENVIRONMENTAL LABELS IN CIRCULATION

Whether it's lubricants, cleaners, or care products, biodegradable MOTOREX products are proven in practice and are in high demand. These are just some of the environmental labels they've earned:



Biodegradability not precisely defined, formerly according to CEC-L-33-A-93, now CEC-L-103-12.



Ready biodegradability of >60% over 28 days.



Inherent biodegradability of water-soluble, non-volatile filterable substances.



German ecolabel Blue Angel (BE) RAL ZU 178



Swedish environmental label

May not be exhaustive. For more information, visit: <https://motorex.com/en-us/About-MOTOREX/Sustainability>

EAL-CERTIFIED LUBRICANTS

Biodegradability is a key aspect of environmentally safe lubricants. Further environmental properties are defined by EAL standards. EAL stands for “Environmentally Acceptable Lubricant” and indicates that a product belongs to the family of environmentally friendly lubricants. EAL lubricants are classified as biodegradable, non-bioaccumulating, and minimally adverse to the aquatic environment. Every MOTOREX lubricant formula is tested for these criteria.

Further details on each product are available online at motorex.com.



“The development potential for readily biodegradable products is far from exhausted. The many advantages of bio-based synthetic lubricant products are especially exciting”

Dr. M. Kurzward, head of R & D MOTOREX AG, Langenthal

INNOVATIVE RAW MATERIALS SHOW THE WAY

Environmental hazards can be greatly reduced by using readily biodegradable formulas. Suitable innovative raw materials are used for the particular lubricant, cleaner, or care product, many of them made from renewable resources. Biodegradability is primarily determined by the formula and by the (vegetable, fossil, or synthetic) base fluids and additives used. Vegetable oils (triglycerides), for example, are excellent as ingredients in total-loss lubricants.

For applications in closed systems such as hydraulic equipment, MOTOREX uses synthetic products such as esters in its readily biodegradable fluids. These are also known as “Hydraulic oil Environmental Ester Synthetics” (HEES). Nowadays other, likewise readily biodegradable hydrocarbon molecules such as PAOs (polyalphaolefins) are also available. This makes it important to know the lubricant’s purpose, the machine requirements (manufacturer’s recommendations), and how it will be used. Expert consulting from your MOTOREX representative and technical customer service can find the answer.





SAFER AND MORE ECONOMICAL

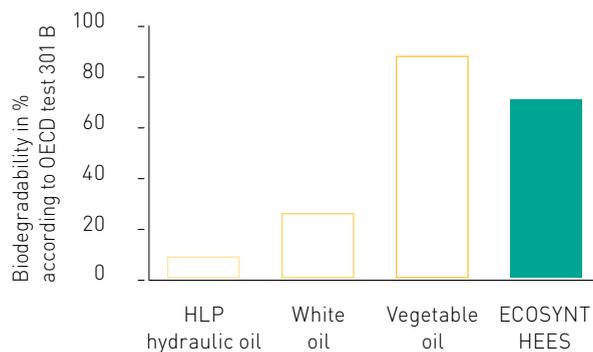
If a hydraulic system in a piece of farming, forestry, or construction equipment springs a leak, a significant quantity of hydraulic fluid can spill into the environment in just a few seconds. Such accidents often result not just in a work stoppage or financial loss but also in environmental damage. For those who know the benefits, using readily biodegradable hydraulic fluids from the MOTOREX product range is a matter of principle. Choosing a readily biodegradable hydraulic oil such as MOTOREX ECOSYNT HEES pays off, and not just because it's safer in the event of an accident. Used properly, its significantly longer service life also makes it a compelling choice in economic terms.

“MOTOREX ECOSYNT hydraulic oils contain over 20 years of know-how – thanks to continual improvement and many compelling product benefits, they are used today all over the world in the most demanding applications.”

Dr. W. Wright, R & D chemist, MOTOREX AG, Langenthal



BIODEGRADABILITY OF HYDRAULIC FLUIDS



A COMPREHENSIVE BIO PRODUCT RANGE

Leakage of lubricants into the environment can't always be prevented altogether. MOTOREX has many environmentally safe, highly effective, and readily biodegradable lubricant, cleaning, and maintenance products in its lineup. Every bit helps.



Sustainability
MOTOREX
bit.ly/3kC5yR1

Your MOTOREX representative will be glad to answer any questions. ●



TNL18 SAS from France: The company cooperates with YORK and MOTOREX in the field of lubricants for tunnel-building operations.

TNL18 TUNNELS WITH VISION

Modern tunnel-building involves sophisticated technologies and fast construction times. Along with utmost professionalism, this work also requires specialized chemical products such as TNL18's shield tail grease. The company's international success story builds partly on the lubricants that YORK, the MOTOREX Group's French subsidiary, has developed for tunnel-building.



What does TNL18 SAS do, exactly?

Our company produces specialized chemicals for the tunnel construction industry and distributes them internationally. Along with high product quality, our key factors include consulting and networking on behalf of our customers. In many cases we are brought in during the planning stages and support the customer throughout the entire project.

Where is your company doing business at present?

We currently operate in many regions of the world. Since we're based in France, TNL18 is a major player in the Grand Paris Express metro expansion project. The Thames Tideway Central project in the UK was also of great interest. It involved boring 12 kilometers below the River Thames in London, passing by all of the historic bridges such as Tower Bridge. Other current and

past projects include enormous sewer tunnels in New York (USA), high-speed rail tunnels (UK, I), and many others.

After the boring, double-shield tunnel boring machines also install reinforced concrete tunnel lining elements (tubbings). Has this process revolutionized tunnel construction?

Tunnel boring machines (TBMs) in general have been a big step forward for the tunnel construction industry. Not just by advancing faster, but also by improving safety for the workers. The first TBM was built in 1818 and operated beneath the Thames in London. (The 18 in our name refers to this date.) Yes, double shield tunnel boring machines are a genuine technical innovation. The internet has also delivered valuable services. Nowadays we can watch the tunnel being built and



The drill head's main bearings and hydraulics operate with YORK's rapidly biodegradable products.



Reinforced concrete tubbings are transported to the drill head for installation.



TNL18 shield tail grease is used in hydraulic installation of tubbings behind the drill head.

monitor excavation parameters, etc. 24/7 from the comfort of our office. The technology is not only becoming more efficient, but also safer and cleaner.

Where is TNL18's shield tail grease used?

Shield tail grease is a pumpable sealant used in installing tubbings. It seals the reinforced concrete elements against the tunnel wall. Since it's used in large quantities, it requires sophisticated logistics which we also apply to lubricants and operating fluids. For the latter we use proven YORK and MOTOREX products.

Which tunnel boring machine (TBM) components require a supply of lubricants?

The following applications in a TBM have very high lubrication requirements:

- Lubrication of the drill head main bearings
- Overall hydraulics and tubbing installation
- Lubrication of gears
- Hydrostatic drives

Are readily biodegradable products also used?

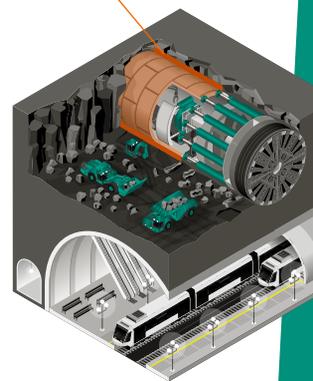
Yes. Environmental awareness has been steadily growing for years. Many project tenders explicitly require biodegradable products that meet certain standards, such as YORK 777 and MOTOREX ECOSYNT HEES BE 46 hydraulic fluids. Both suppliers have an exten-

sive and proven product range of engine, transmission, and compressor oils, hydraulic fluids, release agents, cleaners, greases, etc. for tunnel construction.

Besides top quality, what is it you appreciate most about YORK, i.e. MOTOREX?

The MOTOREX Group (YORK MOTOREX) is a dedicated lubricants specialist. They understand precisely what customers need and take a solution-oriented approach. Customers notice this in their expert consulting and practical services such as quick and informative laboratory analysis. •

SHIELD TAIL GREASE



Video: double shield tunnel boring
youtu.be/haZs9Vwvr_0



tnl18.com



Your three strong partners for tunnel construction.

HAVATOR: THE TIGHTROPE MASTER

Cranes, especially mobile cranes, are essential to the success of complex projects. Havator has just the right crane. The experienced pros at the Nordic market leader never lose their cool, even when facing the most extreme challenges – no wonder, since the steel cables supporting all that weight are lubricated with MOTOREX.





MOTOREX CABLE PROTECT is a special cable touch-up lubricant which efficiently protects wire ropes against weathering and wear.

FOUNDED IN 1956 IN TORNIO (FIN)

Havator was founded in 1956 in Tornio, Finland and acquired its first crane in 1960. Over the years, thanks to successful acquisitions, the company has built an extensive network with an extremely broad range of cranes. As a full-service provider of heavy lifting, assembly, and transport services, the Havator Group specializes in complex lifting tasks involving truck-mounted cranes and heavy hauling and handling. The Group currently operates in Sweden, Finland, Norway, and the Baltic countries at over 30 locations.

THE SLUSSEN PROJECT

Slussen is a district in central Stockholm. The construction project here is one of Sweden's biggest. The wharf is being moved some ten meters outward and the lock is being completely renovated. The 130-tonne crawler crane with girder mast in the photo (left) sits on a floating pontoon. From there it lifts and positions loads such as steel girders, rebar, pontoons, pillars, and concrete elements weighing well over 20 tonnes.

"ICEBREAKER" CABLE PROTECT

When the seawater in Slussen freezes over, temperatures are well below the freezing point. This affects machinery too. The cranes' steel cables are especially in need of effective protection from the elements. Regular touch-up lubrication is needed to ensure optimum functioning with reduced wear. MOTOREX CABLE PROTECT is an easy-to-use, biodegradable touch-up lubricant for cables. It is pre-thinned with a special solvent and forms a thin, non-sticky, water-repellent protective film that adheres well. MOTOREX CABLE PROTECT was the proverbial "icebreaker" in the collaboration with Havator.



"It was not just MOTOREX's outstanding products that won us over. The deciding factor in our partnership was expert consulting and versatile services such as lubrication plans for our equipment."

*Fredrik Rudolfsson,
Manager of Crawler Cranes, Havator AB*

"THINK TWICE – LIFT ONCE"

Havator's philosophy is summed up in the slogan "think twice – lift once." For several years MOTOREX has been helping Havator achieve its aims with a minimum of friction. In its engines, NEXUS FE SAE 5W/30 and FOCUS QTM SAE 10W/40 help save fuel and lower CO₂ emissions. Various heavy-duty transmission fluids such as UNIVERSAL 80W/90, PENTA 75W/90, and ATF DEXRON III lubricate and reduce wear in transmissions and axles, while MOTOREX COREX HV keeps hydraulic systems reliable. Setting the stage for further masterful tight-rope performances. ●



havator.com





© Photos public domain. Fa. Hohberger GmbH

A SHOULDER FOR THE ROAD

Road wideners produce road shoulders in the desired width, height, and transverse gradient. Since 1990, Hohberg GmbH has specialized in building road shoulders throughout Germany. The machines it uses are produced at the same location by me-group. An ideal symbiosis of manufacturer and user – both successful MOTOREX customers.

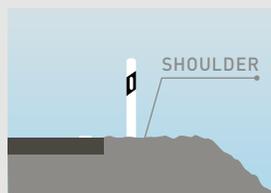


The shoulder provides room to maneuver in the road environment. Other safety aspects include surface water drainage and a place to install reflector posts.

RAPID INSTALLATION

Finishing the shoulders is one of the final steps in road construction. The paved road surface provides a guideline. A dump truck delivering bulk fill is positioned by

the road widener. The machine pushes the truck under its own power while the fill is fed to the widener. Once in place, the material is smoothed and compacted with a vibrating plate and the road surface is cleaned. The me-group distributes Midland and Tanguay road shouldering machines throughout Europe. Since 1990 the company has specialized in sales, manufacturing (shouldering attachments since 2015), import, and export of self-propelled road wideners.



Video
youtu.be/i8-xl3kKpgc



MASTERFUL WITH MOTOREX

Whether it's hydraulic fluid, engine or axle oils, technical greases, or lubricants for maintenance of conveyor drive chains, MOTOREX provides the right lubricant solutions for road wideners and the entire equipment fleet.



FOCUS QTM SAE 10W/30

This high-lubricity engine oil is ideal for engines with the latest emissions standard such as the ones from Kohler.



COOLANT M3.1

Coolant circuits keep getting smaller. Even when it's hot, the coolant quickly dissipates heat.



LS UNIVERSAL SAE 90

Axles, differentials, and planetary gears are under constant high pressure. MOTOREX protects against wear and provides safety margins.



COREX HV 68/ECOSYNT HEES 68

Thermal stress resistant hydraulic fluids can handle continual stresses with aplomb, even in summer.



GEAR SINTEC CLP ISO 150

The oil volume in vibrating plates (attachments) is small. That means the oil has to be able to absorb heavy stresses.



LITHIUMFETT 190 EP/GREASE SPRAY

Regular lubrication of drive chains and pressure rollers is the key to high process reliability.

Lars Hohberg (Hohberg GmbH/me-group) and Michael Thal (MOTOREX distributor) know all about road wideners.

Getting the job done! ●



This Midland road widener spreads, compacts, and sweeps in one go.



Compacting the shoulder places heavy strains on the hydraulic system and vibrating plate.



hohberg-gmbh.de



me-group.eu



Looking forward to using a pioneering coolant solution: Ueli Andrist (r.) and MOTOREX representative at plant commissioning.

FLUIDLYNX WINS FANS AT UNIVERSITY OF APPLIED SCIENCES AND ARTS

Ueli Andrist, shop manager at the University of Applied Sciences and Arts Northwest Switzerland (FHNW) in Windisch, Switzerland, was looking for a solution to coolant problems. He found it in the form of COOLANTLYNX combined with the FLUIDLYNX measuring system from MOTOREX. Implementing the system was an exciting success for both parties.



The FHNW Brugg-Windisch campus is home to 4500 students, researchers, and staff members. Education and training programs are held here for the schools of education, engineering, and business. Ueli Andrist manages FHNW's in-house workshop.

IMPLEMENTATION AS A TEAM

In searching for solutions to coolant problems, the shop manager knew exactly what he was looking for. He wanted a smart system that would deliver maxi-

mum utility for himself and his team. He chose COOLANTLYNX combined with the FLUIDLYNX measuring device: the clean, closed coolant solution from MOTOREX.

The installation process was well-nigh impeccable, with FHNW and MOTOREX teams working hand in hand. The only challenge was the size of the tanks, with capacities ranging from 120 to 750 liters. Three machines were upgraded with different pumps.



The professional solution bears the signature of FHNW and its staff at the periphery as well, with clean piping and screw fitting work that fits perfectly into the overall picture. Since completion of the usual initial tuning work, the system at FHNW has been running constantly, smoothly, and autonomously.

MILESTONE REACHED

The targets for non-toxicity, time savings, constant coolant water quality, and centralized control of the

system and production equipment have all been achieved. Whether the coolant can remain in use for the long term will be determined in early 2023. Ueli Andrist and his team's initial impressions of the MOTOREX solution have left them confident that this goal will be reached as well. Your MOTOREX representative will be glad to advise you. •

 [INTERVIEW WITH UELI ANDRIST](#) ▶

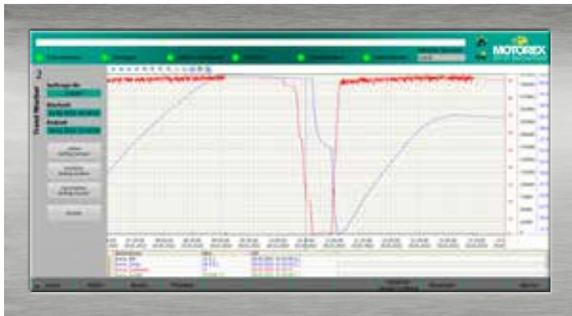


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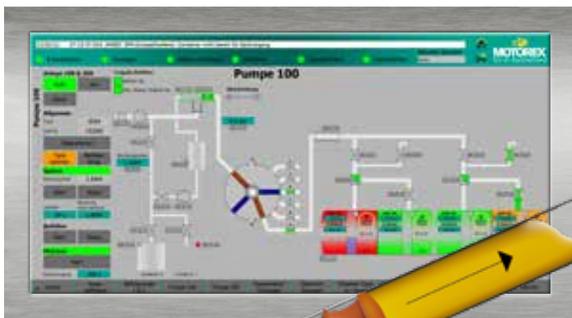
INNOVATION IN CONTROL OF MIXING PROCESSES



Production at the Langenthal plant takes place on ten mixing lines – a complex highly-precision affair. By upgrading the process control system, MOTOREX is investing in the future of the production plant.



The trend indicator shows each mixer in real time. All production data is recorded and archived.



Display of the pigging system:
the pig (rubber plug) clears all residues from the lines.

The heart of production at MOTOREX is the mixing lines. This is where all the threads, and all the fluids, come together. The new process control system makes the production process and all parameters associated with it visible.

OPTIMUM MIXER UTILIZATION

Process automation and real-time mixer data collection are the basis for optimizing utilization of the ten mixers, with a production volume of approximately 100,000 liters. The new process control system has

- **intelligent scale control (volume and specific weight)**
- **a trend indicator for production monitoring**
- **production parameter collection**
- **and an improved user interface display.**

BETTER ACCURACY, PRECISION, AND SPEED

Along with automation of heating, stirring, circulation, pumping, and pigging processes, the mixer process control system upgrade uses a wide range of information on scheduled, current, and finished production processes. This enables optimum utilization of production capacity with documentation of every batch, guaranteeing quality in accordance with ISO 9001/14001 at all times. Downstream processes such as filling are also integrated into the SAP system. Product availability, yielding direct benefits for customers, is one impact of all these measures. ●



OIL SPRAY BIO IS ALWAYS IN SEASON

People buy sustainably produced agricultural products as a matter of principle. In the shop and in the field, readily biodegradable lubricants in farm equipment have a role to play. OIL SPRAY BIO puts the focus on the environment in lubrication and care processes.

Like many other processes in crop cultivation, outdoor planting of onions is done with the aid of machines. In a wide range of equipment, various parts and components are always needing lubrication. The rotary drum in this planting machine with its downward-pointing planting tubes is one example.

TALENTED OIL SPRAY

A quick press of the OIL SPRAY BIO multifunction spray head and the planting tubes are easily adjusted once again for planting many more rows. Over 60% of any lubricant that accidentally reaches the soil is biologically broken down within 28 days. OIL SPRAY BIO is a classic oil spray. It lubricates, protects against corrosion thanks to its creepability, and leaves behind a thin, colorless protecting film of oil. For care and temporary protection, equipment treated with OIL SPRAY BIO should always be stored under a roof.

“Nature gives us life, so we should always act as responsibly as possible.”

Joel Bula, vegetable grower in Galmiz, Switzerland

Your MOTOREX representative will be glad to provide further information. ●



MOTOR START WAKES UP ENGINES



Since its opening in 1984 the Oldtimer Galerie in Toffen (Switzerland), with its permanent sales exhibition and regular auctions, has been a fixture on the Swiss vintage automobile scene. The display stand in the photo (left) once held hand sanitizer as part of the facility's Covid safety strategy. Now the OTG team has brought new life to the facility. If an engine refuses to start, a small dose of MOTOR START spray is just the thing. The Oldtimer Galerie also operates a repair shop specializing in vintage cars and an on-site restaurant. The perfect mix for a successful day trip.



oldtimergalerie.ch

DID YOU KNOW ABOUT 140 FIM WC TITLES?

MOTOREX has been active in racing since the early 80s. We began collecting world championships in 1982 with Switzerland's Bollhalder/Büsser sidecarcross team's first world cup win. Many more would follow. In 1997 the Dutchman Stefan Everts (MX 250cc) romped home with world championship win No.14. Collaboration with KTM brought world cup No.20 with Steve Ramon (MX 125cc) in 2003. In the Moto 3 street bike category, Germany's Sandro Cortese captured the gold, and with it MOTOREX's 70th world championship, for KTM in 2012. The partnership with KTM has resulted in no less than 94 world championship titles to date. The most successful season so far has been 2021 with 12 titles — a likely record! Australia's Remy Gardner won the 140th world championship title with MOTOREX last year on a Red Bull KTM Ajo in the Moto2 class. Congratulations, and we're not done collecting trophies yet...



OTTOREX



Farming Simulator 22

MOTOREX

Discover MOTOREX in Farming Simulator 22

Right on time as the season opens, MOTOREX proudly presents its official partnership with the successful Farming Simulator 22. The partnership also involves a presentation of the biggest farming simulator yet produced by the developer and publisher Giants Software. Anyone who knows Giants Software knows how successful this company has proven.

You can find further information at the official website: farming-simulator.com.



MOTOREX WORK WEAR

Discover our new collection!

Developed in the field: The brand new MOTOREX Work Wear collection combines comfort, safety and quality at the highest level. Highest material quality and elastic Cordura at crucial points ensure perfect comfort. It's always a perfect fit through the integrated waistband adjustment and the elevation in the back. Reflective applications and anti-scratch buttons ensure safe working.



WAIST JACKET



DUNGAREES



OVERALL
INDOOR

OVERALL
OUTDOOR



TROUSERS

SUSTAINABILITY

- Swiss development
- European manufacturing
- CSR Production



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