



PICTURES AND STORIES

FROM OUR LIVES 05.2021



LIQUI MOLY HAS WHAT IT TAKES

READERS' CHOICE

BEST BRAND 2021

It's a recipe for success!

For years there has been only one direction for us, and that's upwards! This applies to the top quality of our products as well as to the popularity of our brand. That's probably why readers of the leading car magazines once again voted us Germany's best lubricant brand in 2021. It's the 11th time in a row that we have been honored by „Auto Zeitung“ and „Auto, Motor & Sport.“ We also once again took 2nd place in the Care Products category with „Auto Zeitung.“ It is a special honor that we would particularly like to thank you for!



IMPRINT

Publisher: LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, 89081 Ulm, www.liqui-moly.com · LIQUI MOLY GmbH is represented by: Ernst Prost, Günter Hiermaier V. I. S. d. P.: Ernst Prost **Editor:** P&S editorial
Distributor: The magazine appears several times a year at irregular intervals and is published free of charge on our website and on the issuu.com online platform. **Rights & Privacy:** Reproduction or other use solely with the written permission of the publisher. **Pictures & Photos:** LIQUI MOLY GmbH, iStock

Dear LIQUI MOLY friends,

they say you reap what you sow! And it seems our seeds are currently growing particularly well. Once again, it is clear that our continuous flow of ideas is more sustainable than other, flash-in-the-pan inspirations: Our strong growth, underlined by an absolute record month of March, continued into April. At EUR 60 million, sales were 60% up on the same month in the previous year, although it should be noted that this was marked by falling demand due to the coronavirus pandemic. Compared to April 2019, however, we still report an outstanding 26% increase!

Everything we have invested in brand expansion, brand awareness and brand demand every day - and especially last year - is now paying off. Going that extra mile, spending that one cent more - this all goes to achieving just one single goal: Reaching out to customers all over the world where they buy: at the local store or at the garage they trust. Here at the point of sale, we need to meet the needs of car drivers, motorcycle enthusiasts, hobby gardeners, bikers, vintage car enthusiasts, watersports fans, etc. By conveying clear messages, offering beneficial products and creating that emotional added value. After all, our name not only stands for unique quality, but also for a unique corporate philosophy. The readers' votes from nine of the largest car magazines in Germany underline the fact that we are now reaping the benefits of consumers despite the ongoing global pandemic: LIQUI MOLY has been named the most popular oil brand a total of ten times. We really do have the recipe for success ;-)

Speaking of reaping benefits from sowing the right seeds: As a full-range supplier, you may also know by now that we offer products for lawn mowers, chainsaws, hedge trimmers etc. However, in this issue we will again present a few of our "green" helpers to guarantee a smooth start to the gardening season. And we will also show classic car enthusiasts the best way to restore their four-wheel treasures after the winter break - naturally with the help of our products.

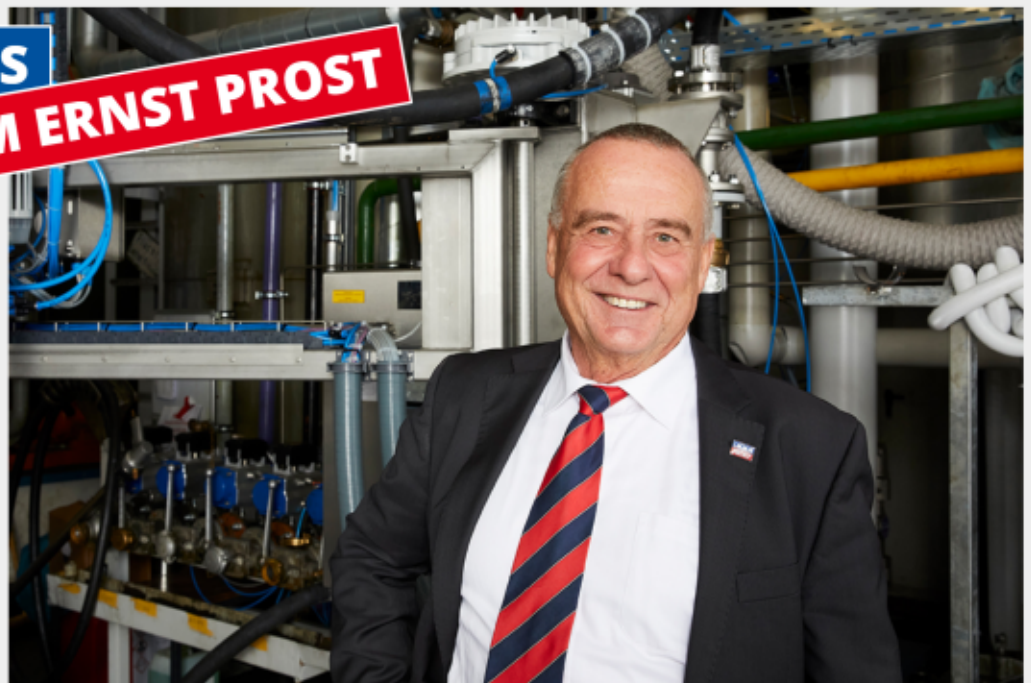
Let us continue to focus on and consistently spread the seeds of our success story as we have done in the past. The worldwide LIQUI MOLY family has demonstrated that, even in difficult, often catastrophic months, we can adapt to new requirements and take on the challenges of international markets head on and transform them into positive energy - both interpersonally and professionally! Especially in times like these, quality, innovative strength and sales power alone are not enough. What is important now is trust, reliability and the people behind the brand. What counts is us!

Thank you for being one of us!

Your PICTURES AND STORIES Team

CORONA-CRISIS

LETTER FROM ERNST PROST



Climbing mountains, collecting records. Survival through hard work. After the crash comes the climb.

Dear journalists and editors,

If you want to climb from a high mountain to an even higher mountain, you first have to go back down into the valley. Corona is more than a valley. It is a deep hole that swallows life, health and cheerfulness, but also destroys jobs, livelihoods and businesses. We recognized this threat last year and sensed what was coming. That's why we threw everything we had – but really everything – into this battle. We ran commercials on television and radio and launched ad campaigns in nearly every magazine, journal and newspaper. No shock-induced paralysis, but a spirited rebellion. Instead of applying for short-time work, we hired 100 people. With this huge contingent of staff, sales and marketing activities, we have massively resisted everything that wanted to grab us by the throat in connection with the coronavirus. No fearful whining and know-it-all complaining, but rather working hard and getting the job done! We haven't slowed down or taken our foot off the gas for a single day. Yes, in addition to a lot of optimism, there was also a positive obsession with the work. I acknowledge that I have been very often confronted with questions, doubts and criticism of our strategy. It has taken a lot of steadfastness and confidence to continue unwaveringly on our path. Even today, I still get the cautionary and concerned 'expert opinions': "Well, I wonder whether what you're doing is really going to work out?"

In addition to simply safeguarding the existence of our jobs and guaranteeing the 100% supply of goods to our customers, it was and still is important for me to show and prove 'as a side effect' what is possible if people are of good will, pursue a common goal and work hard – work very hard. Solidarity, unity, joining forces, caring. Sounds unfamiliar to some, but to me it is the basis for success.

After the 19% sales increase in March, we set the sensational record of 60% sales growth in just one month, in April. 60 million euro in sales. The second-best figure in our company history this year after the 65 million euro in sales in March ... Let someone claim that performance, courage and diligence do not pay off.

If you want to climb uphill and set new records all the time, no hocus-pocus or magic gummy bear juice will help. You will certainly remember Bibi Blocksberg and the gummy bear gang. In times of danger and in crises, only clever action and hard work can help. Only spitting on your hands and really getting cracking will do the trick. Everyone at their stations, in a well-coordinated team.

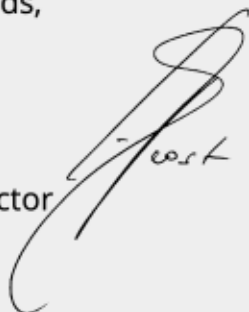
So what else is going on? A lack of base stock, packaging materials and overseas containers. And the extra load of base stock costs twice as much as it did a year ago. Production and shipping is extremely slow and cumbersome at the moment. But even with this situation we do not complain – we produce in three shifts and on Saturday also in one shift. We are drowning in orders – but the goods are missing. It's been exactly the other way round a few times in the last 30 years. :-) But that's life: Sometimes you are the statue and sometimes you are the dove, as the saying goes.

And after the downturn comes the upswing – if you do everything right. And we clearly have, as the sales figures in the first third of the year impressively prove. In the first four months of 2019, i.e. before coronavirus, we generated sales of 162 million euro. Two years later – still in the coronavirus crisis – 228 million. That is 66 million more or 40% growth.

Q.E.D.

Warmest regards,
Yours,

Ernst Prost
Managing Director

A handwritten signature in black ink, appearing to read 'Ernst Prost', written over a light blue horizontal line.

Liqui Moly mit **stärkstem Monat** der Unternehmensgeschichte

Der Öl- und Additivspezialist erzielte im zurückliegenden März nach eigenen Angaben einen Umsatz von 65 Millionen Euro.



Ernst Prost, Geschäftsführer von Liqui Moly, sieht sich in seiner Strategie bestätigt.

Liqui Moly bleibt auf Wachstumskurs: Wie der Öl- und Additivspezialist mitteilte, erzielte das Unternehmen im März 2020 einen Umsatz von 65 Millionen Euro, ein Plus von 19 Prozent zum gleichen Vorjahresmonat. „Wir ernten jetzt, was wir im vergangenen Jahr gesät haben“, so Geschäftsführer Ernst Prost.

Als vor einem Jahr die Covid-19-Pandemie um sich griff und Unsicherheit die Wirtschaft erfasste, entschied man sich bei Liqui Moly, gegen den Trend Gas zu geben. Das Unternehmen verdoppelte nach eigener Darstellung seine Marketinginvestitionen, um der sinkenden Nachfrage entgegen zu wirken. „Auf diese Weise haben wir ein Stück weit unsere eigene Konjunktur gemacht“, bilanzierte Ernst Prost. Dies sei deshalb umso erfolgreicher gewesen, da viele Wettbewerber

zur selben Zeit ihre Budgets gekürzt und ihren Service reduziert hätten. „Damit manövierten wir uns in eine sehr gute Startposition für die nun wieder anziehende Weltwirtschaft“, so Ernst Prost.

Der Umsatz für die ersten drei Monate dieses Jahres liegt mit 168 Millionen Euro auf demselben Niveau wie im Vorjahr. Das erste Quartal 2020 sei besonders stark gewesen, bevor sich die Pandemie auch auf den Umsatz von Liqui Moly ausgewirkt hatte. Auch der Gewinn ist laut Unternehmen mit 2,8 Millionen Euro genauso hoch wie im Vorjahresquartal. „Mit unserem soliden Auftakt im ersten Quartal haben wir Rückenwind und die Möglichkeit, 2021 zum erfolgreichsten Jahr von Liqui Moly zu machen – trotz aller Schwierigkeiten, die uns die Pandemie noch bieten mag“, ist Ernst Prost überzeugt.

LIQUI MOLY –

Verantwortung Made in Germany

Starke achten auf Schwache. Wir nehmen Rücksicht aufeinander und befolgen die Regeln des Miteinanders. Genau das haben wir alle schon als Kinder in der Schule gelernt. Im Straßenverkehr sind diese Verhaltensweisen lebenswichtig

ABER NICHT NUR dort kommt es auf das Miteinander an, sondern überall dort, wo Menschen zusammenkommen. Werte wie Vertrauen, Respekt, Verantwortung und Menschlichkeit werden beim Ulmer Schmierstoffspezialisten groß geschrieben. Was auf der Straße funktioniert, klappt auch in einer sozial verantwortlichen Wirtschaft. Nicht nur aufgrund seiner Haltung ist die Marke, dessen Logo die Rennstrecken dieser Welt schmückt, populär. Der Mittelständler mit gut 1.000 Mitunternehmerinnen und Mitunternehmern (so wird die Belegschaft hier genannt) hat sich in den vergangenen Jahrzehnten zum Liebling der Kunden entwickelt. Das zeigen nicht nur zahlreiche Auszeichnungen großer Leserwahlen der auf-lagenstarken Motormagazine Deutschlands, sondern auch das enorme Wachstum und das positive Markenimage LIQUI MOLYs.

ALS MANUFAKTUR FÜR Öladditive startete das Unternehmen in den 1950er Jahren. Heute bietet das Unternehmen 4.000 chemische Artikel für sämtliche Fahrzeuge an. Egal ob PKW, Nutzfahrzeug oder Zweirad. „Uns liegt am Herzen, dass unsere Kunden immer sicher an ihr Ziel kommen“, beschreibt Ernst Prost, Geschäftsführer von LIQUI MOLY. Ernst Prost kam vor 30 Jahren ins Unternehmen, hat es mit seiner unvergleichlichen Art geprägt und groß gemacht. Alleine in den letzten zehn Jahren haben sich Belegschaft und Umsatz nahezu verdoppelt. Er zahlt faire Löhne, stellt den Erhalt sowie Ausbau von Arbeitsplätzen über den Profit, engagiert sich mit drei privaten Stiftungen für die Schwachen in der Gesellschaft und spendete im letzten Jahr für Einsatzfahrzeuge von Feuerwehren, Rettungskräften und Erste-Hilfe-Organisationen

Produkte im Wert von 5,5 Mio. Euro. Damit unterstützte das Unternehmen diejenigen, die im Kampf gegen Corona an der Front stehen. Zum anderen half es den Rettungskräften sicher ans Ziel zu kommen. „Ohne Motoröl kommt kein Notarzt zur Einsatzstelle. Und niemand will in einem dreckigen Krankenwagen liegen. Für uns war es klar, dass wir gerade in Coronazeiten unseren Beitrag für die Gesellschaft leisten müssen“, beschreibt der Geschäftsführer. Deshalb habe LIQUI MOLY mit dem geholfen, was es am besten kann; Öle, Additive und Pflege.

NICHT NUR DAMIT trägt der Ölspezialist zur Sicherheit bei. Seine Produkte machen und halten Fahrzeuge verkehrstüchtig. „Unsere Partnerwerkstätten bieten einen Komplettservice mit unseren Produkten an. Regelmäßiger Service eines jeden Fahrzeuges ist wichtig“, versichert Ernst Prost. So müssen etwa Bremsen jederzeit funktionieren und auch andere Bauteile sollten für die Verkehrssicherheit gepflegt und gewartet werden. Ein Horrorszenerario für jeden ist eine Panne auf der Autobahn, die im schlimmsten Fall tragische Unfälle zur Folge haben kann. Aber nicht nur der Service oder die

perfekte Schmierung beweglicher Teile tragen zur Verkehrssicherheit bei, auch die umfangreiche Pflegeserie des Anbieters für Fahrzeugchemie. Zum Beispiel ist die Sauberkeit der Scheiben im Auto, der Lichter, Reflektoren oder von Visieren ebenso wichtig, wie die Pflege der Lederkombi von Motorradfahrern. Für alle diese Einsatzbereiche bietet LIQUI MOLY passende Produkte.

„JEDES UNERNEHMEN STEHT und fällt mit den Menschen. Wir 1.000 arbeiten jeden Tag daran, besser zu werden. Für Menschen, die darauf vertrauen, mit uns sicher ans Ziel zu kommen. Das funktioniert nur mit Hingabe, Respekt, Lösungsorientierung und einer großen Portion Verantwortungsbewusstsein. Wir tragen damit zur sicheren Mobilität weltweit bei. Gleichzeitig tun wir Gutes und investieren in Produkte und Menschen, um unserer sozialen und unternehmerischen Verantwortung gerecht zu werden. Deshalb unterstützen wir auch die großartige Sicherheitskampagne. Nur mit gemeinsamer Verantwortung machen wir unsere Straßen und die Welt sicherer. Dafür steht unsere Marke LIQUI MOLY.“ schließt Ernst Prost ab.



Modernes Leichtlauföl der Spitzenklasse



Ernst Prost, Geschäftsführer LIQUI MOLY

To mark the 75th anniversary of the "auto motor und sport" magazine, the publishing house is launching a large-scale campaign on the subject of road safety. Throughout the year, we will be supporting this campaign in all their publications by providing editorial contributions and advertisements.

VEHICLE CARE

TEST THE BEST



Impressive in practice and in tests: our **Oil Spot Remover** and **Special Rim Cleaner**



Oil Spot Remover

When topping up the oil or because of the "natural leakage of older vehicles", oil spots can frequently appear on the floor. Anyone who wants to remove these oil spots needs the right tools to do so: our Oil Spot Remover! With oil-contaminated absorbent and non-absorbent substrates such as asphalt, concrete, screed, clinker and ceramic, our oil spot remover quickly and reliably removes unsightly and environmentally harmful oil stains and is extremely easy to use. **This has now also been confirmed by the trade journal MOTORRAD in issue 08/2021: Our Oil Spot Remover was tested by this magazine and was rated with "good".**



Special Rim Cleaner

Another product from our care series was also convincing: our Special Rim Cleaner! **The Automobile Club of Germany (AvD) gave it a "very good" rating in a test.** Anyone who "wants to leave the work entirely to the cleaner and limit their work to rinsing the rim with water" is "best served" with our favorable test winner, among other products.

Rims are a decisive criterion for ensuring a car's well-groomed appearance. However, brake dust, mud, salt, limescale residue, etc. subject the rims to potential wear and damage. A beautiful rim therefore always needs to be maintained. However, one drive through a car wash is often not enough to remove stubborn dirt. Pre-treatment is recommended, ideally with our Special Rim Cleaner.

This cleaner gives a sparkle to your car's spring clean!



Ausgabe 4/2021

However, our extensive vehicle care range offers much more: for example, polish, wax and shampoo for exterior use or leather balms or upholstery and plastic cleaners for interior use. The all-round carefree package for well-maintained vehicles!

FULL RANGE

GARDEN PRODUCTS



Good lubrication equals a better cut

Everything grows better with LIQUI MOLY. Our lubricants are also the number one choice for gardening work.

For hobby gardeners and professional landscapers: the starting signal has been given for the 2021 gardening season. Whether by machine or by hand, it is easier to garden when lawn mowers, lawn tractors, lawn trimmers, scarifiers, hedge trimmers, garden shredders, chainsaws, sweepers, generators, etc. are functioning properly. Our extensive garden range significantly helps to keep gardening tools and equipment working correctly.

With solutions like our Petrol Stabilizer, garden/winter equipment oil, chainsaw oil, hydraulic oil and various care sprays, we transport our expertise from the auto sector to the motors and aggregates of your garden care appliances. There, our products guarantee better performance and durability in any season. Available in organic quality too.





2-Cycle Power Saw Oil

High-quality, high-performance motor oil, especially for lubricating air-cooled 2-stroke engines. Exceeds the tough demands of leading chainsaw manufacturers. With API-TC. For optimal lubrication and wear protection even under the toughest conditions. With effective corrosion protection. Keeps the engine clean. For high-performance power saws with and without catalytic converters. Highly mixable with fuels.



Petrol Stabilizer

Preserves and protects fuel against aging and oxidation. Prevents corrosion in the entire fuel system. Allows easy decommissioning of lawnmowers, chainsaws, vintage cars, convertibles, motorcycles, scooters, ATVs and other gasoline-powered 2-stroke and 4-stroke engines. Increases operational reliability. With long-term effect. Suitable for all gasoline engines – especially for preventive use. Also suitable for long-term use in seldom-used engines.



FULL RANGE

GARDEN PRODUCTS

Treatment Spray for Garden Equipment

Lubricates, protects and cares for garden tools such as lawn edge trimmers, hedge trimmers, etc. Keeps moving parts running smoothly. Prevents squeaking noises. Protects all metal parts against corrosion during winter storage. Does not attack plastics, paints, metals and wood. For easier running of lawn edge trimmers, hedge trimmers, etc. Plant-based, making it environmentally friendly.



LM 40 Multi-Purpose Spray

Lubricates, cleans, loosens, protects and preserves. Keeps moving parts running smoothly. Reaches even the most hidden lubrication points thanks to its excellent penetrating properties. Loosens stubbornly rusted and rusted-in screws quickly. Infiltrates and removes dirt as well as stubborn oil and grease residues. Protects against rust and corrosion and maintains chrome parts. The all-rounder for home, hobby, workshop, vehicle and industry. For hinges, castors, locks, screws, switches, handles, Bowden cables, car antennas and much more.

2-Stroke Motor Oil

High-quality, semi-synthetic motor oil for use in all 2-stroke engines. Secures the functional performance of the engine and ensures maximum service life. Selected mineral and synthetic base oils in combination with modern additive technology enable residue-free combustion and thus keep the engine clean. Optimally protects the engine against wear. For automatic and mixed lubrication in motorcycles, mopeds, lawnmowers, power saws and emergency power generators. Mixing ratio up to 1:50.



Lawnmower Oil SAE 30

For optimal engine cleanliness and outstanding wear protection. The high additive level ensures first-class lubrication and a long service life of the engine. Protects against corrosion even under adverse operating conditions and during winter storage. Especially for 4-stroke lawnmower engines and other engines that require a single-grade oil with viscosity class SAE 30 and the existing specifications.



Start Fix

Secures starting aid in event of cold, moisture, wet spark plugs and low battery. Consists of an active ingredient combination of particularly highly combustible substances. Helps combustion engines to start and is effective even at very low temperatures. Protects the battery and is economical to use. For all 2- and 4-stroke gasoline and diesel engines in cars, trucks, buses, motorcycles, boats, construction equipment, tractors, lawnmowers, chainsaws, etc.

Robotic Lawnmower Cleaning and Care Spray

For cleaning robotic lawnmowers without scratching or leaving streaks. Maintains and protects plastics from UV radiation when used regularly. Prevents embrittlement and bleaching out of the material. Suitable for all robotic lawnmowers. Can also be used for robotic vacuum cleaners.



FULL RANGE

GARDEN PRODUCTS



Garden Winter Equipment Oil 5W-30

Modern multi-grade engine oil. Exceeds the requirements of well-known engine manufacturers such as B. Briggs and Stratton, Honda, Tecumseh, etc. Selected base oils based on synthesis technology and a high additive content ensure optimum engine cleanliness and excellent lubrication under all operating conditions. For 4-stroke engines in lawnmowers, emergency power units, riding mowers, chippers, rotary hoes, tillers, scarifiers, brush cutters, high-pressure cleaners, snowblowers, etc.

Universal Oil for Garden Equipment 10W-30

Modern multi-grade engine oil. Selected base oils and a high additive content ensure optimum engine cleanliness and outstanding lubrication even under the most demanding operating conditions. For 4-stroke engines in lawn mowers, emergency power generators, ride-on mowers, power shredders, power tillers, scarifiers, brushcutters, high-pressure cleaners, snow blowers, etc.



Rapid Cleaner (Spray)

Makes your assembly work easier, cleaner and safer. Quickly and completely removes oil, grease and dirt. The treated parts are completely free of resin and oil-like residues and are fully degreased. Has excellent penetration properties as well as controlled evaporation free of residues. Suitable for use as a universal cleaner for quick cleaning and degreasing of small components in the automotive and industrial sectors. For brakes, clutches, transmissions, and for assembly and repair work. Removes oil and grease spots from floor coverings, fabrics and linings.



Bio Saw Chain Oil

Environmentally friendly, biodegradable chain oil (test OECD 301 B), plant-based, with excellent adhesion and lubrication properties. Protects against wear and corrosion. The favorable viscosity temperature behavior guarantees year-round use at all outdoor temperatures. Tested by the KWF (Committee for Forestry and Forest Technology). For chain lubrication of all high-performance chainsaws. Also for extreme applications, such as sawing hardwoods.



www.blauer-engel.de/uz178



Saw Chain Oil 100

Mineral high-performance oil of selected base oils for continuous loss lubrication. Excellent adhesion properties and the first-class lubricating effect ensure that all moving parts such as chain links and joints are optimally lubricated and protected against wear. The favorable viscosity temperature behavior guarantees year-round use at all outdoor temperatures. For lubricating the chains of all high-performance chainsaws as well as gang saws. Also for extreme applications, such as sawing hardwoods.

Hydraulic Oil HLP 22

Mineral hydraulic oil of the classification type HLP acc. to DIN 51524 Part 2. Contains selected active ingredients to improve the ageing resistance of the wear and corrosion protection as well as the EP properties. Ideally suited for systems in which high thermal loads can occur. For machines, pumps and plants. ISO VG 22 viscosity

Hydraulic Oil HLP 46

Has the same features as our HLP 22 but with ISO VG 46 viscosity.





Whenever the current coronavirus guidelines permit, our friends from LIQUI MOLY Russia communicate the latest knowledge about our products and their high benefits during on-site training - just like here at a customer in Novosibirsk.





LIQUI MOLY Russia is also spreading more brand awareness and product availability throughout the country with the acquisition and interior design of other flagship stores. This EU Kurtchatov store in Novosibirsk is both inviting and modern.



RUSSIA

TRAINING



"Oil for every car taste" - this is the slogan of the retail chain "Maslenich" in the Nizhegorod region and could also easily apply to LIQUI MOLY. Both companies have common interests and goals - a fact clearly evident at this training session of expert employees.



RUSSIA

FLAGSHIP-STORE



The concept of nationwide flagship stores is attracting increasingly more attention in Russia! New: the "Maslenka" store in the city of Votkinsk (in the Udmurt Republic), which proudly presents our colors both outside and inside its store.



Воткинск
Флагманские магазины
LIQUI MOLY

FORMULA 1

ITALY

At the Italian Grand Prix in Imola, the formula for success also applied to our Formula 1 sponsorship: The unparalleled popularity of the premier motor racing class enables us to increase the brand awareness of LIQUI MOLY worldwide. However, this is not just a matter of mere popularity and reach. "Formula 1 is the premium class in motorsports and LIQUI MOLY is the premium manufacturer of oils and additives. Advertising in Formula 1 therefore sends a strong signal to end consumers and retailers. This helps us and our partners to stand out from the ever-increasing media attention and to gradually increase the demand for our products.



Official Sponsor

**How did my favorite driver finish?
What are the current standings in the
Formula 1 World Championship?**

We offer something very special on our website for all statistics fans out there: With our partner 'motorsport network', we provide interactive visualizations, which can be accessed in real-time after every racing weekend. Here you will find the race highlights, the weekend results and the overall championship standings:

F1® KALENDER

03/28	Bahrain	Sakhir
04/18	Italien	Imola
05/02	Portugal	Portimao
05/09	Spanien	Barcelona
05/23	Monaco	Monaco
06/06	Aserbaidschan	Baku
06/13	tba	tba
06/27	Frankreich	Le Castellet
07/04	Österreich	Spielberg
07/18	Großbritannien	Silverstone
08/01	Ungarn	Budapest
08/29	Belgien	Spa
09/05	Niederlande	Zandvoort
09/12	Italien	Monza
09/26	Russland	Sochi
10/03	Singapur	Singapore
10/10	Japan	Suzuka
10/24	USA	Austin
10/31	Mexiko	Mexico City
11/07	Brasilien	Sao Paulo
11/21	Australien	Melbourne
12/05	Saudi Arabien	Jeddah
12/12	Abu Dhabi	Abu Dhabi

Termine mit LIQUI MOLY-Markenpräsenz sind weiß hervorgehoben.

www.liqui-moly.com/de/de/unternehmen/sponsoring/motorsport/formel-1-r.html





An iconic image of an iconic brand at the Portuguese Grand Prix in Portimao!



**LIQUI
MOLY**

Official Sponsor



**LIQUI
MOLY**

**LIQUI
MOLY**

**LIQUI
MOLY**

**LIQUI
MOLY**



BRAZIL

SPONSORING



LIQUI MOLY stepping on the gas in Brazil

With this new sponsorship deal, LIQUI MOLY Brazil is moving up a gear in terms of brand awareness: As the official supplier of the KTF Sports Team, our products and colors will in future be on show at the Brazilian racing series STOCK CAR, STOCK LIGHT and ENDURANCE RACES - thanks to our high-performance oils, additives and care products with great chances of success for brilliant results! The new partnership will draw a lot of attention to our name and colors just in time for the launch on the Brazilian market and hopefully score us many podium finishes.

SPONSORING

JAPAN



Even rain doesn't take the shine away from our global brand! As official partner of LBWK in Japan, our logo had to be a key element of LBWK's vehicle presentation for the FORMULA D Japan.



CZECH REPUBLIC

SPONSORING





TURKEY

SPONSORING



Rallying at its finest on the Turkish Aegean: With its first podium victory in 2021, the BC Vision team sponsored by our Turkish partner Egemot kicked dust at the BOTAV Rally in Bodrum - with a record participation of 84 cars in total.





The best opportunity to get our brand awareness expansion program moving: Vehicle wrapping! Just like this new company car belonging to our sales partner in Sulaymaniah. This vinyl wrapped vehicle is intended for use as a mobile marketing tool in and around the Iraqi city and has already attracted a great deal of attention in the sales room even before its debut drive.



GERMANY

ENGSTLER MOTORSPORTS



All ready for the start of the WTCR - FIA World Touring Car Cup 2021! Engstler Motorsport will be starting this year's highly anticipated season with two Hyundai Elantra N TCR vehicles. The experienced drivers Luca Engstler and Jean-Karl Vernay will be the two drivers of the Engstler Hyundai N LIQUI MOLY Racing Team in all eight races planned. Both Hyundais benefit not only from the attractive racing design with our logo, but also from the premium quality of our high-performance oils!





Engine Compartment Cleaner

Whether after the race or winter. Whether dust, dirt or road salt: Sometimes the engine compartment looks pretty worn out and there is risk of corrosion. Our Engine Compartment Cleaner ensures sparkling clean results.



Engine Seal

Perfect for preserving the engine after using our Engine Compartment Cleaner. Engine Seal is a high-gloss, water-repellent protective coating and ensures that the engine shines like new for a long time.

"LIQUI MOLY is more than "just" oils and additives. LIQUI MOLY is a problem solver for professionals and amateurs alike!"



Wheel Hub Paste

Our Wheel Hub Paste prevents seizing or rusting of rims onto the hub. If used properly, the outstanding adhesion prevents spinning even at high rotational speeds. The paste can also be used for lubricating screw connections or repair and maintenance work to the braking systems.

GERMANY

SPONSORING



Virtual yet oh so real: With the sponsorship of the eSport team LIQUI MOLY Racing, we are also reaching out to the increasingly growing fan community of virtual racing. And one thing is certain: Even if the vehicles are "only" computer-generated, the passion for LIQUI MOLY is 100% real!





ITALY

SPONSORING

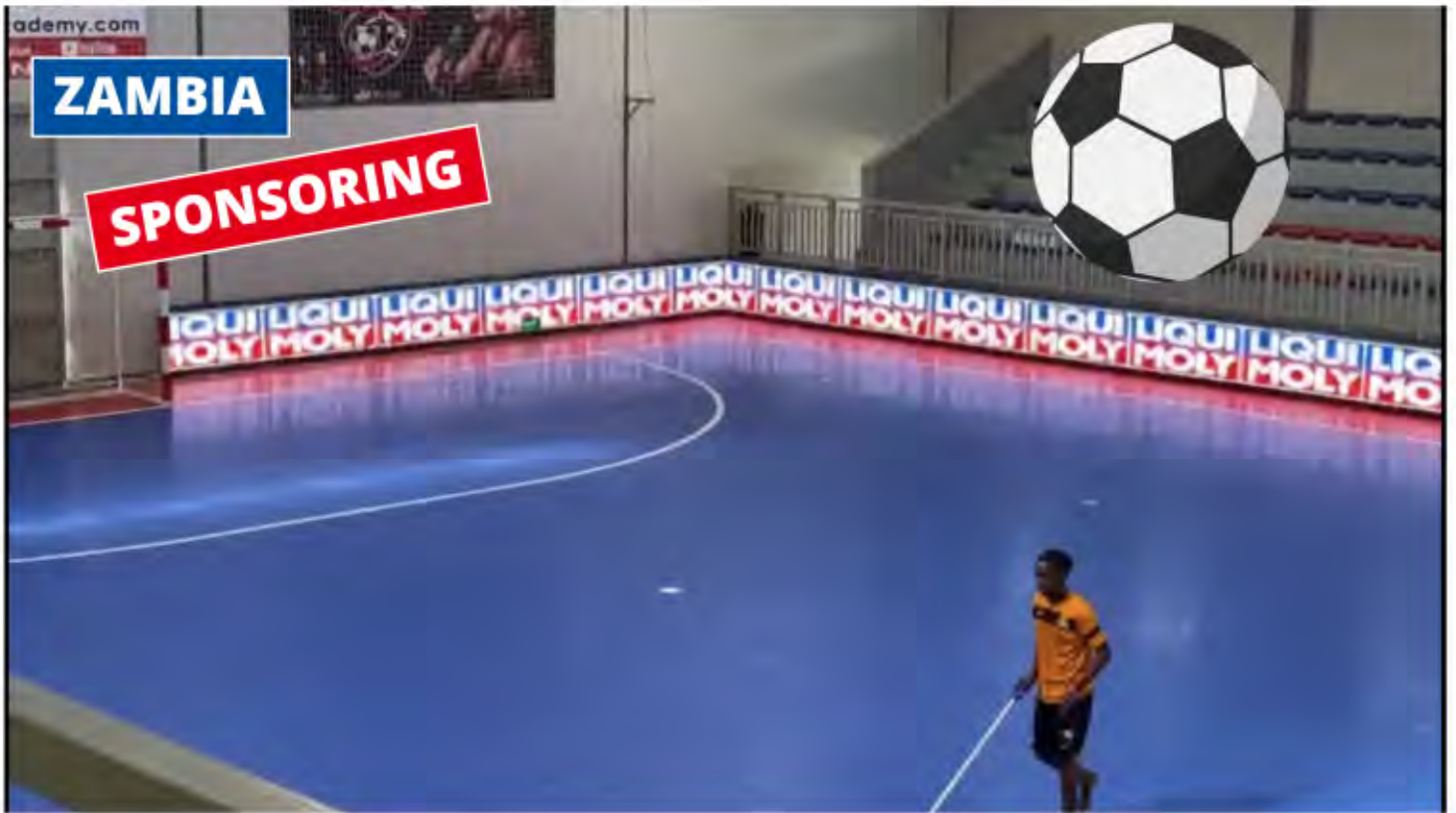


Our cooperation with the Italian motorcycle manufacturer Betamotor not only involves our oil used to fill all Beta units in their factory, but also our sponsorship of their works teams in the Enduro World Championship and the MXGP.

Motorbike 4T Synth 10W-50 Offroad Race

Specially developed for air- and water-cooled 4-stroke engines that are used off-road under the highest loads. For the sporty driver. Suitable for enduro, motocross, quad, SxS and snowmobile with and without wet clutch.





Futsal is the version of indoor football authorized by football's world governing body, FIFA, and is becoming increasingly popular internationally. In Zambia, our partner AE made sure our logo was clearly visible at the final of the Automotive Futsal Cup by advertising LIQUI MOLY on the pitch-side advertising boards. A sponsorship that clearly brought a bit of luck: AE's own works team won the game and won the overall tournament. Congratulations!



RUSSIA

SPONSORING



Where the streets have no name!
Our top-class products show their
unbeatable quality even in places
where there is normally no vehicle on
the road - as shown here at the
motocross race in the region of
Leningrad.



CZECH REPUBLIC

SPONSORING



With our high-tech lubricants on board and some divine assistance in the background, pilot Igor Drotar presented himself in his Škoda Fabia R5 at the ECCE Homo hill climb in the Czech Republic.



MOTOSPRING 2021

RUSSIA



Perfectly lubricated and a magnet for young and old racing fans alike: With this extraordinary racing car, the MSK Racing Team sponsored by LIQUI MOLY Russia brought a lot of color to the exhibition hall at the "Motospring 2021" in Moscow.



AUSTRIA

SPONSORING



When rising rally star Daniel Mayer, son of the legendary rally driver Walter Mayer, ventured onto the international rally scene for the first time in his still young career, our global brand was naturally there to accompany him!

This budding rally driver from Austria together with co-driver Christina Ettel gained important experience in their Peugeot 208 R2 at the Rallye Piancavallo in Italy. In the small town situated at an altitude of 1,267 meters in the mountains of the Friuli-Venezia region, which is famous mainly for hosting Alpine Ski World Cup races, Daniel Mayer took the next step on his hopefully high career ladder.





Whether Miki Cambal in his Citroen Saxxo (above) or the Nutrend-Jantar team (below) with their three drivers Jiří Svoboda, David Dědek and Václav Janík: Our logo was well represented in all racing classes with great international competition at the Ecce Homo hill climb race in the hills around Šternberk in the Czech Republic.



USA

LEVERAGING THE PRODUCT RANGE



LIQUI MOLY targets powersports



LIQUI MOLY is increasingly targeting its investments in powersports. "Compared to our automotive core business, this is a small but also rapidly growing market," says Sebastian Zelger, CEO of LIQUI MOLY USA/Canada. "It is also a very technologically oriented and quality-conscious market, which appeals to us."

The world of motorsports demands first-class performance and this also applies to the material used. The material is subjected to extreme loads and stress but must also function reliably. "Anyone content with mediocrity has already lost in this sport," says Sebastian Zelger. "That's why we want to help drivers win by providing them with top-class quality." We not only offer motor oils and additives, but also a comprehensive range of chemicals, all from a single source and all compatible with each other.

Our brand can look back on many years of experience in motorsports, including Formula 1, MotoGP, TransAm and IMSA. This experience is incorporated into our products. We also develop solutions specifically for powersports. For example, it offers one particular oil for personal watercrafts (PWC), a special racing oil for snowmobiles and an oil tailored to snowbikes. The company also offers shooters, a separate line of additives designed especially for powersports. The shooters are tailored to the needs of small, high-performance combustion engines and help restore them to their original performance.

The rest of our product range is also very useful for ambitious drivers. For example, our Cera Tec is not only a very effective oil additive that reduces friction in the engine so that it can deliver more power; it also protects it from wear and even reduces the risk of engine damage in the event of oil loss.

In addition to our product range, we are also expanding our services for powersports. LIQUI MOLY now has three employees who are specifically responsible for this segment. "This shows how seriously we take this market," says Sebastian Zelger. This seriousness can also be seen in the company's presence in the field of powersports: LIQUI MOLY is title sponsor of the Legacy Off-Road racing series and official oil and technology partner of the DP4 Off-Road racing series. The California Superbike School relies on the quality of LIQUI MOLY as does the successful motorbike racer James Rispoli. We are also a partner of the JMC Motorsports/Fly Racing/Husqvarna Racing Team for the 2021 Monster Energy Supercross 250SX West series.



CHAMPIONSHIP

EISBÄREN BERLIN

Anniversary title for our Berlin puck heroes





**LIQUI
MOLY**

Official Partner
of the Eisbären Berlin

Jubilation and joy at the Eisbären Berlin.
In the 3rd and decisive playoff final, the home team won the title 2:1.
A total of 8 championships makes the Berlin team record winners in
the "Deutsche Eishockey Liga" (DEL, German Ice Hockey League).
The Eisbären are also the 100th German champions.



CHAMPIONSHIP

EISBÄREN BERLIN

A dream come true! Happy faces at the Mercedes Benz Arena in Berlin. Rightly so: It is a historic achievement for the Eisbären Berlin despite the unusual times! The golden rain and the blue-red-white of our logo combine to make the perfect symbolic colors for this historic evening!





A triumph of team spirit! Despite the shortened season during the pandemic, our commitment was always firm. For us, being a partner means sticking together even in difficult times. Neither we nor the Eisbären complained, but instead accepted and worked with the circumstances caused by the pandemic and fought together. With success!



GERMANY

FAN POST



Always the best quality on board: Water sports professional Andreas Kärgel (Managing Director of Kärgel GmbH) from Leverkusen uses LIQUI MOLY - for both business and private use!



GERMANY

FAN POST



Like father, like daughter! As long as the quality is right, Mathilda, daughter of our colleague David Kaiser (Head of R&D/Application Technology), will gladly help deliver our lubricants ;-)

TREASURES ON FOUR WHEELS



Reviving vintage cars after winter

It's finally time to re-awaken four-wheel treasures from their hibernation! US car professional Klaus Borrmann, from the well-known German TV show "Cash for Chrome" on DMAX, shows how it's done.



"Cash for Chrome" - the title of the well-known DMAX German TV show for our customers and brand ambassador Klaus Borrmann from the company Route 66 Borrmann Motors based in Hamburg. Klaus demonstrates the best way to get vintage and modern cars back on the road after the winter break with our products. The second season of the program could be seen until recently on DMAX (Tuesdays at 9:15 pm) and on Joyn. But not to worry: All episodes can be viewed online and the new season is already in filming. So switch on and stay tuned!

Reviving vintage cars after winter with Klaus Borrmann:

<https://youtu.be/29m55LDfReQ>



Check liquids

It's first recommended to take a look under the car. Are there new spots on the floor that could indicate a loss of liquid? It's also a good idea to check the exhaust rubbers and brake lines. And while you're at it, it's also worth taking a look for any tire cracks and checking the air pressure. It's vital to inspect under the hood. Cooling and brake fluid, wiper fluid, hydraulic oil for the power steering - you have to give yourself time to check everything. Luckily enough, all of these products can be found in the LIQUI MOLY range.



Change the engine oil

If the engine oil has not been changed before winter, it is essential to do so now. You can find out which oil is recommended for the respective vehicle quickly and easily using our online oil guide.



Windshield Super-Concentrated Cleaner

Practical, useful, efficient: Our Windshield Super-Concentrated Cleaner ensures a clear, streak-free view in seconds and removes oil, silicone and insect stains with citrus cleaning power. Empty tank while on the go? No problem! The small bottle (50 ml) holds enough for 3-5 liters. Just add water and you're done. And if you need a little more in supply, you can reach for the 250 ml bottle.

Start Fix



Commercial brake cleaner (also known as rapid cleaners) usually contain petrol (not to be confused with additives petrol in accordance with DIN EN 228) and are therefore not suitable as an optimal starting aid spray. Due to the high octane number of some cleaners, they do not promote combustibility. The tight ignition range of the petrol-air mixture also means that the optimum petrol-air mixture must be achieved very precisely in order to start the engine properly. In addition, some brake cleaners contain acetone, which is not fully compatible with common sealing materials. Start Fix, on the other hand, contains a precisely adjusted mixture of highly combustible ether and other combustibles. In contrast to brake cleaners, the ether-air mixture does not have to achieve the same level of precision. The range in which the mixture must be is up to four times larger. After ether combustion, the other combustibles allow the engine to continue running for a few seconds until the carburetor or injection system is functioning reliably.

TREASURES ON FOUR WHEELS



Lead Substitute

The Lead Substitute lubricates and protects the valve seat rings of vehicles that originally required leaded fuel. It reduces wear on the cylinder head and ensures optimum compression. It increases operating safety and prevents motor damage.



Tire Repair Spray

Spare wheels for classic cars can be a challenge! They are often as old as the vehicle itself and possibly unusable. In addition, they are often very heavy and contribute to the already higher consumption. But there's an easier way! Our Tire Repair Spray is ideally suited for breakdown assistance for all standard car and caravan tire sizes. Our Tire Repair Spray seals flat tires and pumps them up again. The spray is suitable for all types of tires with and without tube. And the tire can then be easily repaired later!

Carburetor and Valve Cleaner & Injection Cleaner

Particularly older vehicles still have carburetors. We recommend the Carburetor and Valve Cleaner. It removes deposits in the carburetor, on valves and spark plugs, and in the combustion chamber, as well as prevents new deposits from forming. It also protects the entire fuel system against corrosion and prevents icing up of the carburetor.

A real vitamin boost for petrol engines is our Injection Cleaner, which removes deposits on injectors, intake valves, spark plugs and in the combustion chamber and prevents their formation. It also takes care of starting problems and erratic engine running. What is more, the fuel additive provides maintenance for all components of the petrol injection system, protects the entire fuel system from corrosion and improves throttle response and compression. This improves the emission values and engine performance.





No rusty heap of metal, but a fountain of youth for automotive fans: vintage cars

Owners of vintage and classic cars really appreciate the fascination for cars. The need to keep their dream car in excellent condition for as long as possible - both visually and technically - is just as great. The best is just about good enough here. For the interior as well as the exterior. Negligence in maintenance and care not only reduces the fun of the ride, but also the value of the "sacred" sheet metal, for example, rust on the bodywork, tears in the upholstery covers, brittle plastics and much more. Particularly in older motors, the wrong oil can lead to engine failure in worst case scenarios. Therefore, it is generally advisable to pay attention to the factory-recommended oil release. LIQUI MOLY's classic motor oils are specially attuned to the requirements of classic cars with and without oil filters.



ONLINE-CAMPAIGN

COMPETITION



LIQUI MOLY is raffling a VIP motorsport experience for two at the MotoGP!

For years now, the readers of leading car magazines have voted us Germany's best lubricant brand. This is true of Auto Zeitung, as well as for auto motor und sport for the 11th time in a row. An impressive result that reflects both our quality and our continuity. One of the ways we're celebrating is with an exclusive competition for our fans!





bestbrand.liqui-moly.com

What's in store for the winners of our exclusive motorsport experience:

- Two Paddock tickets for a MotoGP racing weekend in 2022
- Entry to the paddock
- Hospitality at LIQUI MOLY Team IntactGP (free food on Saturday & Sunday)
- Flight in economy class
- Hotel stay (4 star) with half board as well as transfers to the respective hotels and race tracks





DE JUISTE OLIE KIEZEN

Net als banden niet zomaar 'rond en zwart' zijn, is motorolie veel meer dan 'geel en vettig'. Kijk maar eens naar het etiket op de verpakking: voor wie niet thuis is in de materie, lijken al die cijfers en letters wel Chinees. Kortom, de ene olie is de andere niet. Een woordje uitleg over wat motorolie precies doet, en welke soorten er bestaan. Want de juiste motorolie kiezen is van cruciaal belang.

Motorolie heeft als voornaamste taak de wrijving tussen bepaalde onderdelen te verminderen, en zo hun opwarming en dus slijtage te beperken. Niettemin blijft een zekere wrijving altijd onvermijdelijk, en tijdens hun werking komen bij de bewegende delen microscopisch kleine metalen slijtage-deeltjes vrij. Die worden door de oliestroom naar de oliefilter gevoerd, waar ze worden tegengehouden om de olie te zuiveren. Een andere bestaansreden van motorolie is de mechanische onderdelen beschermen tegen oxidatie en corrosie. Bij de verbranding van brandstof (benzine, diesel, aardgas of lpg) ontstaan door de

gasvorming namelijk zuren die na verloop van tijd schadelijk zijn voor de duurzaamheid van de motoronderdelen. Ten slotte zorgt de motorolie er ook voor dat de warmte-energie wordt afgevoerd die ontstaat door de wrijving tussen mechanische onderdelen en door de verbranding van brandstof. In die zin vormt de motorolie een aanvulling op de koelvloeistof, die bepaalde zones, zoals de zuigers of de nokkenas, niet kan bereiken. Let wel, voor al die functies – slijtagebeperking, anticorrosiebescherming, koeling en nog veel meer – is niet alleen de kwaliteit van de olie zelf belangrijk, maar ook de aanwezigheid van additieven in de olie, een onderwerp waarop we later nog terugkomen.

HOE MEER OLIEWISSELS, HOE BETER?

Elke 10.000 km olie verversen was tot 20 jaar geleden de norm. De oliën die tegenwoordig worden aangeboden, met name de synthetische, zijn veel efficiënter dan die van toen. Je kunt er dan ook meer kilometers mee afleggen dan vroeger. Voor de consument betekent dat niet alleen tijdwinst, maar ook een besparing (lagere gebruikskosten). En natuurlijk is ook het milieu erbij gebaat. Hoe dan ook is het altijd raadzaam om de door de constructeurs voorgeschreven intervallen te respecteren (over het algemeen 20.000 tot 30.000 kilometer of, voor voertuigen die weinig kilometers afleggen, eenmaal per jaar). Maar let op, oudere auto's verdragen geen synthetische oliën. De afdichtingen in hun motoren zijn slecht bestand tegen de reinigende capaciteiten van de additieven die in synthetische oliën aanwezig zijn, waardoor lekken kunnen ontstaan.



SOORTEN MOTOROLIE

Motorolie kunnen we classificeren in drie soorten: minerale oliën, synthetische oliën en halfsynthetische oliën. **Minerale olie** wordt gewonnen door de raffinage van ruwe olie. Deze olie is goedkoop, maar moet vaker worden verversd omdat ze snel haar smerende eigenschappen verliest. Ze leidt eveneens tot een hoger brandstofverbruik omdat ze dikker en minder vloeibaar is. Bovendien is ze minder goed bestand tegen hoge temperaturen. Maar let op: wanneer het onderhoudsboekje van een (meestal oud) voertuig het gebruik van minerale olie aanbeveelt, is het raadzaam die instructie te volgen. Dat geldt over het algemeen voor voertuigen die meer dan dertig jaar oud zijn, maar ook voor atmosferische dieselmotoren met een hoge kilometerstand.

Voor de tweede soort, de **synthetische olie**, wordt vertrokken van een basisolie, die verder geraffineerd wordt om specifieke eigenschappen te verkrijgen,

zoals een betere bescherming van de motor tegen slijtage, betere prestaties qua vermogen en verbruik, beperkte vorming van verbrandingsafzettingen, langere verversingsintervallen en een gegarandeerde werking bij extreme temperaturen (koud of warm). Keerzijde van de medaille is de hogere aankoopprijs. Moderne auto's gebruiken vandaag allemaal synthetische olie, omdat minerale olie niet in staat is om de vereiste prestaties te leveren. Doorgaans wordt dit type olie ook aanbevolen voor bestuurders die hun motor zwaar op de proef stellen (veel stadsverkeer met continu stoppen en weer vertrekken en/of een sportieve rijstijl).

Halfsynthetische olie is tot slot een mengsel van minerale en synthetische olie. Maar volgens Oliver Kuhn, adjunct-directeur van het olielaboratorium van LIQUI MOLY, "spelen deze halfsynthetische oliën een steeds minder belangrijke rol op de markt, omdat ze door hun mineraalgehalte onvoldoende goede prestaties leveren". ●

VRAGEN AAN OLIVER KUHN,

adjunct-directeur van het Liqui Moly-olielaboratorium



Vergissen we ons dat er vroeger veel minder te doen was over de oliekeuze?

"Veel jaren geleden was het inderdaad gemakkelijk: één enkele oliesoort was geschikt voor bijna alle auto's. Maar vandaag is dat totaal anders. De toename van het aanbod begon indertijd met verschillende viscositeiten. Vandaag is de viscositeit nog maar één van de vele belangrijke eigenschappen en geen bepalende factor in de zoektocht naar de juiste olie."

Maar wat verklaart deze enorme toename van het aanbod dan?

"In hun streven om het brandstofverbruik en dus ook de uitstoot van verontreinigende stoffen te beperken hebben de autoconstructeurs – en dan vooral de Europese – ontdekt dat motorolie een belangrijke rol kan spelen. Wanneer zij een nieuwe motor ontwikkelen, worden de gewenste olie-eigenschappen van meet af aan bepaald. Het is dan aan de oliemaatschappijen om zo'n olie te ontwikkelen. En aan de consument om ervoor te zorgen dat zijn motor wel degelijk gesmeerd wordt met de aanbevolen olie."

Denkt u dat die trend van het toenemende aanbod zal doorzetten?

"Een trendbreuk richting minder soorten olie is niet echt aan de orde, integendeel. In de toekomst zal de verscheidenheid aan oliën nog toenemen en zal de tendens naar meer gespecialiseerde oliën zich voortzetten."

Hoe weet ik of de olie die ik in mijn motor doe, de beste is?

"Het is meer een kwestie van de meest geschikte olie voor uw auto. Vandaag de dag is smeeroilie als een vloeibaar reserveonderdeel: verkeerde olie gebruiken is zoiets als een verkeerd onderdeel monteren. U kunt de meest geschikte olie voor uw voertuig vinden in de online olieguides op www.liqui-moly.com."

De keuze voor een kwaliteitsvolle olie die aangepast is aan de specifieke kenmerken van de motor, zal een gunstige invloed hebben op het verbruik van de auto en de duurzaamheid van de bewegende onderdelen.



WEBSITE

Now even more attractive,
modern and user-friendly:
our new website

www.liqui-moly.com



Aktuelles

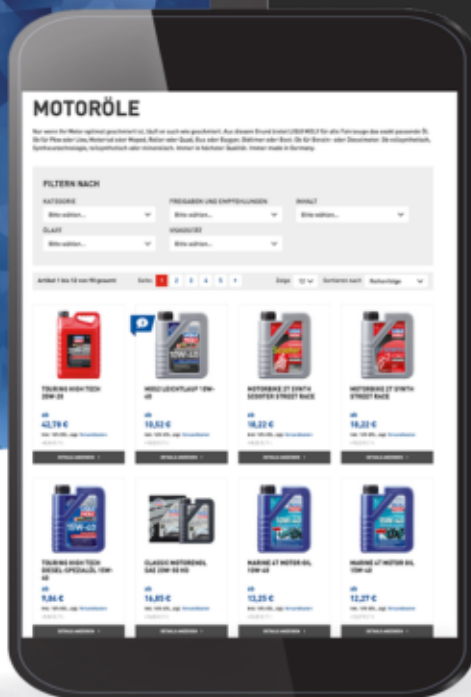
LIQUI MOLY verlost zum Jahresende
erneut einen brandneuen Hyundai i30N

Das Gewinnspiel des Ulmer Motordienstellers geht in die letzte Runde

MEHR ERFAHREN >

ADAC TCR Germany: Antti B...
Titel im Hyundai i30 N TCR

Finne feiert Fahrertitel mit Sieg und Podestplatz beim
Dachserleben und LIQUI MOLY Team Engländer ist Vize



Von Krise keine Spur bei LIQUI MOLY

[NEWS ABONNIEREN](#)[HERAUSGEBER KONTAKTIEREN](#)

April-Umsatz des Öl- und Additivspezialisten liegt 60 Prozent über dem Vorjahr

(PresseBox) (Ulm, 03.05.21) Das starke Umsatzwachstum von LIQUI MOLY setzte sich auch im April fort. Mit 60 Millionen Euro lag der Umsatz 60 Prozent über dem Vorjahresmonat, der freilich schon von der pandemiebedingt einbrechenden Nachfrage gekennzeichnet war. Aber auch im Vergleich zum April 2019 liegt das Plus immer noch bei 26 Prozent. „Wir sind mit viel Schwung in dieses Jahr gestartet und diesen Schwung werden wir auch beibehalten“, sagt Geschäftsführer Ernst Prost.

Der März war mit 65 Mio. Euro Umsatz der erfolgreichste Monat der Firmengeschichte. „Dies konnten wir im April nicht toppen, doch auch er stellt eine imposante Leistung der gesamten Mannschaft dar“, so Ernst Prost. Traditionell war das Wachstum international stärker als in Deutschland, wo LIQUI MOLY schon einen erheblichen Marktanteil besitzt und weiteres Wachstum daher schwierig ist.

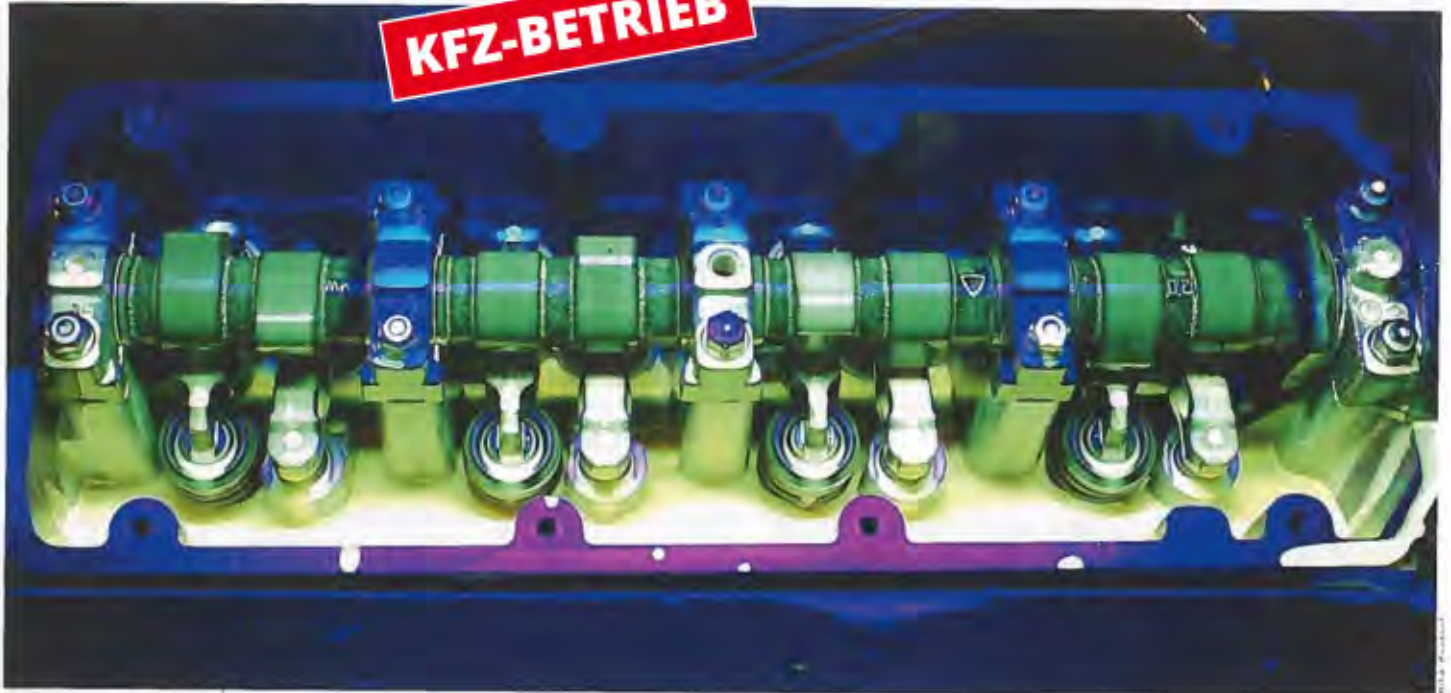
Blickt man auf die ersten vier Monate dieses Jahres zurück, dann wuchs LIQUI MOLY vor allem in denjenigen strategischen Regionen, in denen es über eigene Tochtergesellschaften aktiv ist: In Italien, Australien und Südafrika wurde der Umsatz im Vergleich zum Vorjahreszeitraum verdoppelt und sogar in den USA und Kanada, dem nach Deutschland größten Absatzmarkt, stieg der Umsatz um mehr als 40 Prozent.

Dieses Wachstum ist das Ergebnis der antizyklischen Investitionsstrategie der letzten zwölf Monate. „Außerdem scheinen manche Wettbewerber noch im Winterschlaf zu stecken“, erklärt Ernst Prost. Doch der Erfolg hat auch eine Kehrseite: „Wir müssen uns anstrengen, um genügend Rohstoffe zu bekommen. Und danach suchen wir händeringend Container für die Verschiffung, um unsere Öle und Additive zu unseren Kunden zu bekommen“, so Ernst Prost. „Das ist ein tagtägliches Kampf, aber das kriegen wir auch hin.“

Natürlich spürt auch LIQUI MOLY pandemiebedingte Einschränkungen in vielen Ländern. Doch dank seiner internationalen Diversifizierung kann das Unternehmen schwächelndes Geschäft in einem Land durch stärkere Geschäfte in anderen Ländern ausgleichen. „Insgesamt sehen wir aber, wie das Wirtschaftsleben weltweit mehr und mehr Fahrt aufnimmt“, so Ernst Prost. „Wir hoffen, dass wir im Lauf des Jahres immer weiter zur Normalität zurückkehren können.“

LIQUI MOLY GmbH

Mit rund 4000 Artikeln bietet LIQUI MOLY ein weltweit einzigartig breites Sortiment an Automotiv-Chemie: Motoröle und Additive, Fette und Pasten, Sprays und Autopflege, Klebe- und Dichtstoffe. Gegründet 1957 entwickelt und produziert LIQUI MOLY ausschließlich in Deutschland. Dort wird es immer wieder zur besten Ölmarke gewählt. Das Unternehmen verkauft seine Produkte in 150 Ländern und erwirtschaftete 2020 einen Umsatz von 611 Mio. Euro.



Motorentests sind im Rahmen von Motorölnormen/-freigaben ein festes Ritual. Zum Teil erfolgen sie über viele Jahre hinweg am selben Aggregat. Jetzt aber mussten diverse Tests aufgrund von Aggregatwechsellern überarbeitet werden.

SCHMIERSTOFFE

No(r)men est Omen

2020 brachten API und IIsac nach langer Zeit wieder einmal neue Normen für Motoröle heraus. Mit Verspätung möchte auch die Acea dieses Jahr neue Ölvorschriften veröffentlichen. Doch was bedeuten diese für den Werkstattalltag?

Ein großer Deutscher sagte einst: „Sucht nur die Menschen zu verwirren, sie zu befriedigen ist schwer!“ Nun wusste der gute Johann Wolfgang von Goethe sicher weder, was Kfz-Betriebe, noch was Motoröl ist. Dennoch wird man den Verdacht nicht los, dass er genau die/das beziehungsweise die Öl- und Autoindustrie im Kopf hatte. Schließlich malträtierten die beiden Letztgenannten jeden und alles mit ihren Schmierstoffnormen – vom Verbraucher bis zur Werkstatt. Die Autobauer werfen mit Eigennormen nur so um sich, und auch die Schmierstoffindustrie kreiert regelmäßig vermeintlich übergreifende Standards. Das tut sie dann für die USA, für Asien und für Europa. Alles zusammen macht es die ganze Sache für Werkstätten nicht übersichtlicher – im Gegenteil.

Welche Normen es für Pkw und Nfz gibt, zeigt die Übersicht auf S. 60. Diese werden herausgegeben von:

- Acea, dem europäischen Automobilherstellerverband,
- API, dem American Petroleum Institute,
- IIsac, dem internationalen Komitee für Standardisierung und Zulassung von Schmierstoffen,
- Jaso, der japanischen Organisation für Automotive-Standards.

Ach ja, die bekannte „SAE“ ist keine Norm, sondern lediglich eine Definition von Viskositätsklassen und sagt nichts über die Qualität oder den Verwendungszweck eines Schmierstoffs aus. Die Bedeutung der jeweiligen Normen für die hiesigen Fahrzeughersteller beziehungsweise den deutschen Servicemarkt ist höchst unterschied-

lich. Im letzten Jahr veröffentlichte das API die neue SP- und die IIsac die neue GF-6-Norm – beide sind eng miteinander verknüpft. „Im Aftermarket spielen diese Normen hierzulande eine noch kleinere Rolle als bei den europäischen Autobauern, da der europäische Markt seit mehr als 25 Jahren auf Motorölformulierungen setzt, die sowohl für Benzin- als auch für Dieselmotoren geeignet sein müssen“, ordnet Oliver Kuhn, stellvertretender Leiter des Öllabors von Liqui Moly, aus seiner Sicht deren Bedeutung ein. Ein Öl für beide Motorarten kennen die Amis nicht. Sie unterscheiden schon immer zwischen Ölen für kleinere und mittlere Fahrzeuge (Benziner) und reine Lkw (Diesel). Den typischen europäischen Pkw-Hochleistungsdiesel berücksichtigt das API nicht oder nur sehr bedingt.

ÖLVISKOSITÄTEN

Wann kommen 0W-16 und Co.?



Bild: Wolf Oil

Volker Clasen, Wolf/Champion: „Das wird dann der Fall sein, wenn ein Motor auch unter erschwerten Betriebsbedingungen ausschließlich für diese Viskosität ausgelegt ist. Zurzeit sind solche Öle Hybriden mit hohem Teillast-, Leerlauf- und Stillstandsanteil vorbehalten.“



Bild: Fuchs

Jan Gerstenberger Fuchs: „Grundsätzlich ist ein Trend zu solchen Ölen erkennbar. Wir halten es durchaus für möglich, dass sich innerhalb der nächsten drei bis fünf Jahre sogar ein 0W-12-Öl im Service etablieren wird. Vielleicht sogar noch früher.“



Bild: Jennifer Weyland

Oliver Kuhn, Liqui Moly: „Auch wenn ein Hersteller ab Werk ein 0W-16-Öl einfüllt, wird er vermutlich für den Service auf ein SAE 0W-20 oder höher verweisen. Auch ist noch nicht sicher, ob die kommende Acea-Norm solche niedrigviskose Öle berücksichtigen wird.“



Bild: Exxon-Mobil

Haris Junuzovic, Exxon-Mobil: „Es gibt einige Bestrebungen im europäischen Markt, solche Öle einzusetzen. Wir rechnen mit der Einführung des ersten 0W-12-Öls in Deutschland 2022. Weitere Fahrzeughersteller werden 2023 folgen.“



Bild: alexander.motul.perovic

Alexander Hornoff, Motul: „Unseres Wissens ist da bei Opel bereits etwas in Vorbereitung.“

Warum neue Motorölnormen fällig wurden

Anders sieht es mit der Bedeutung der neuen Normen aus, wenn der Hersteller in Amerika oder Asien sitzt: „Zum einen wächst die Anzahl der (Import-)Fahrzeuge, die den API-Standard für den Service vorgeben, zum anderen ist die neue SP-Norm rückwärtskompatibel. Das heißt, sie wird zügig ältere Normen und damit Öle ablösen. So hat SP eigentlich nur Vorteile für den Verbraucher und Werkstätten“, meint Volker Clasen, Technical Sales Engineer bei Wolf Oil (Champion).

Notwendig wurde die neue SP des API, da drei ganz neue und vier überarbeitete Motorentests eingeführt wurden beziehungsweise werden mussten. Das lag auch daran, dass standardisierte Testmotoren mittlerweile veraltet und nicht mal mehr Ersatzteile für diese zu bekommen waren. Die neue SP löst die Norm SN Plus ab, die kurzfristig im Kampf gegen LSPI, der ungewollten Frühentzündung bei direktspritzenden Benzinmotoren, eingeführt worden war.

API- und IIsac-Normen sind also speziell für die Betriebe interessant, die (viel) mit Importeursmarken zu tun haben. Das heißt allen voran mit dem, was aus Asien und den USA kommt. „Selbst Fiat-Chrysler gibt neben seiner eigenen OEM-Spezifikation diese Normen als Alternative an“, weiß Alexan-

der Hornoff, technischer Leiter Motul Deutschland, zu berichten. Andererseits setzen mittlerweile auch US-Autobauer auf herstellereigene Ölnormen. „Prominentes Beispiel sind hier die Dexos-Normen von GM wie aktuell Dexos 1 Gen. 2, auch wenn diese zu einem erheblichen Teil auf internationalen Normen aufsetzen“, erklärt Jan Gerstenberger, Head of Product Management Automotive Aftermarket Europe bei Fuchs.

Der Trend zum immer dünneren Öl setzt sich fort

Dem aktuellen Trend zu extrem niedrigviskosen Motorölen - 0W-20 und darunter - wird auch die neue IIsac-Norm gerecht. Wie? In dem sie erstmalig in der Geschichte des API/IIsac eine Ölnorm für Pkw aufsplittet. Der Unterschied: Während die neue GF-6A-Norm Öle der Viskosität 0W-20 und höher berücksichtigt, tut die neue GF-6B-Norm das für Öle unterhalb 0W-20, also 0W-16 usw. Das heißt, während 6A rückwärtskompatibel ist, darf 6B nicht in ältere Fahrzeuge gefüllt werden.

„Kenntlich macht dies auf den Ölgebinden zusätzlich ein Starburst-Symbol, das die Abwärtskompatibilität symbolisiert, beziehungsweise ein Shield-Symbol, das vor der Verwendung in älteren Motoren warnt“, erläutert Haris Junuzovic, Passenger Vehicle

Engine Oils Technologist bei Exxon-Mobil, die neue Zweigleisigkeit.

Doch wann kommt denn endlich die seit Langem angekündigte neue Acea-Norm? Auf Anfrage von »kfz-betrieb« teilt der Herstellerverband mit: „Noch in diesem Quartal!“ Versprochen war sie schon ewig. Zuletzt für 2020, ursprünglich für 2018. „Die Verzögerung resultiert auch aus der verspäteten Einführung der neuen IIsac-Norm“, weiß Motul-Mann Hornoff. Denn statt wie bislang eigene Normsuppen zu kochen, bauen die Europäer verstärkt auf den internationalen Vorgaben auf. Beispielsweise wenn es um Steuerkettenverschleiß, Ölschlammablagung, Ablagerungen oder Themen wie LSPI geht. Die Experten erwarten die neue Acea-Norm zumindest im ersten Halbjahr 2021.

13

36 UL

Ernst Prost

64 Jahre |



Geschäftsführer der Liqui Moly GmbH

Unternehmer mit Biss Dem international renommierten Unternehmen Liqui Moly geht es besser denn je und das ist mit Sicherheit zu einem großen Teil auf das unermüdete Engagement des Geschäftsführers zurückzuführen. Die offensive Marketingstrategie wird kompromisslos durchgezogen, es schimmert rot und blau, wohin das Auge reicht, und der diskussionsfreudige Ernst Prost macht in dieser Liste mehr als 20 Plätze gut!

From SPAZZ magazine - the 111 most important Ulm & Neu-Ulm people (April 2021 issue)

TURKEY



Yağ üreticisi, Almanya'nın en büyük motor yayınlarının okurları tarafından, en sevilen yağ markası olarak ödüllendirildi.

LIQUI MOLY, ihracat pazarında yıllardır Almanya'ya kıyasla daha fazla büyüme kaydetti. Ciro hacminde, ana pazar hâlâ en büyük pazar olmaya devam ediyor. Ürünler ve markaya olan ilgi de Almanya'da devasa boyutlarda. Ve bu durum artış göstermeye devam ediyor. Bunu Almanya'nın en büyük dokuz yayınının okur anket sonuçları açık bir şekilde ortaya koyuyor: LIQUI MOLY toplamda on kez en sevilen yağ markası olarak seçildi.



Auto Zeitung, Auto Bild, auto motor und sport, Motor Klassik, Auto / Straßenverkehr, Motorrad, PS, sport auto, Motorsport aktuell. Bu sıralama, bir büfede satılan motor dünyası dergisi seçeneklerini andırıyor. Fakat her yıl okurlarına en sevilen araç üreticilerini ve aksesuar markalarını seçme olanağı veren yayın unsurları arasında yer alıyorlar. Bazı okurlar, LIQUI MOLY'den on yıldan uzun süredir en sevilen motor yağı olarak söz ediyor. "Marka sadakati tam olarak bu. Bunun için onlarca yıldır her gün çalışıyoruz," diyor LIQUI MOLY Genel Müdürü Ernst Prost. "Kazandığımız her unvan ve kırdığımız her rekor için seviyoruz." Şirket Mart ayında 65 milyon Euro değerindeki ciro ile tarihinin en yüksek aylık cirosunu kaydetti. Ernst Prost ve ekibi için bu ödüller ve en iyi markalar, doğru olanı gerçekten çok iyi yapıyor olmanın teyidi niteliğinde. "Yıldan yıla daha fazla ödülümüz oluyor. Ama bununla yetinmeyeceğiz. Her seferinde üzerine bir tabaka daha ekliyoruz."

LIQUI MOLY, en sevilen araç bakım ürünlerine dair yapılan oylamalarda ikinci sıraya yerleşerek parlak bir figür ediniyor. Ernst Prost, "Araç kimyası alanında komple bir portföy sunarak, tamamen bakım ürünleri konusunda uzmanlaşmış olan sağlayıcıları arkamızda bırakıyoruz", vurgusunu yapıyor. Sözlerine şirketin bu yılki pazarlama kampanyasında yağlar ve katkı maddelerinin yanı sıra bakım ürünleri serisini üçüncü unsur olarak vurgulayacağını ekliyor.



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Nothing Protects Better

Germany's Best Lubricant Brand

Germany's *Liqui Moly* continues world industry leading pace...

Within its latest published issue of company magazine "Pictures and Stories" – *Liqui Moly* – presents its vehicle care range. The product group is sometimes somewhat overshadowed by our better-known ranges of engine oils and additives. We look back at 40 years of *LIQUI MOLY* in China. And we show pictures from the start of the Formula 1 and MotoGP seasons – with *LIQUI MOLY*, of course.

LIQUI MOLY MOTOR OILS
ADDITIVES
CAR CARE

[You may read the issue here.](#)

About *LIQUI MOLY*

With around 4,000 items, *LIQUI MOLY* offers a global, uniquely broad range of automotive chemicals: Motor oils and additives, greases and pastes, sprays and car care, glues and sealants. Founded in 1957, *LIQUI MOLY* develops and produces exclusively in Germany. There it is repeatedly voted the best oil brand. The company sells its products in more than 150 countries and generated € 611 million in sales in 2020.

Posted by Peter Szaretnicki

BOOST DIESEL ENGINE PERFORMANCE WITH LIQUI MOLY

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USA



Both older mechanical injection diesel engines and their newer common rail counterparts benefit from *LIQUI MOLY* Marine Super Diesel Additive. Simply pouring a can into the fuel promotes easier starting, increases lubrication, prevents corrosion and boosts performance.

LIQUI MOLY Marine Super Diesel Additive is safe to use in all diesel engines, with or without turbochargers. It doesn't affect catalytic converters or particulate filter functionality.

Formulated to boost cetane value for better combustion, *LIQUI MOLY* Marine Super Diesel Additive lowers emissions and reduces internal wear. Cleaning agents prevent the build-up of deposits.

LIQUI MOLY Marine Super Diesel Additive is used in a mixing ratio of 1:500. A 16.9 fl. oz. can treats 66 gal. of diesel fuel and costs \$19.99.

Renowned in global auto and motorcycle racing circles, *LIQUI MOLY* specially formulates and manufactures a complete range of high-performance marine engine lubricants and fuel additives. Its motor oil has been voted the most popular in Germany for 10 years straight.

Find out more on their [website](#), or find *LIQUI MOLY* on [Instagram](#) or [Facebook](#).

LIQUI MOLY: powersports segment 'rapidly growing'

By Rick Longworth | April 29, 2021

Oil and additive specialist *LIQUI MOLY* will continue to target its investments in powersports, according to a recent announcement.

"Compared to our automotive core business, this is a small but also rapidly growing market," said Sebastian Zelger, CEO of *LIQUI MOLY* USA/Canada. "It is also a very technologically oriented and quality-conscious market, which appeals to us... Anyone content with mediocrity has already lost in this sport. That's why we want to help drivers win by providing them with top-class quality."

LIQUI MOLY offers motor oils and additives, as well as, a comprehensive range of chemicals, all from a single source and all compatible with each other.

LIQUI MOLY Cera Tec is not only a very effective oil additive that reduces friction in the engine so that it can deliver more power. It also protects the engine from wear and reduces the risk of engine damage even in the event of oil loss.

In addition to the product range, *LIQUI MOLY* is also expanding its services for powersports, adding three employees who are specifically responsible for this segment.

LIQUI MOLY is also the title sponsor of the Legacy Off-Road racing series as well as the official oil and tech sponsor of the DP4 Off-Road racing series.

USA

Partner Content / Motorolie, de cijfers en letters uitgelegd - in samenwerking met Liqui Moly

BELGIUM

Een goede motorolie is van vitaal belang voor een moderne motor, of het nu gaat om verbruik, slijtage of uitstoot. Minstens even belangrijk bij de keuze van de juiste olie is dat ze voldoet aan de gewenste viscositeits- en kwaliteitsnormen. En daar komen al die cijfers en letters op de verpakking om de hoek kijken...



Viscositeit of dikvloeibaarheid verwijst naar de stroperigheid van een vloeistof. In het geval van motorolie wordt die gemeten volgens bepaalde normen – vastgelegd door de Society of Automotive Engineers (SAE) – en weergegeven door middel van een getal gevolgd door een W en een ander getal. Voorbeeld: 5W30. Het getal voor de W verwijst naar de viscositeit van de olie bij koude; het getal na de W geeft de viscositeit aan in warme omstandigheden. De viscositeit van de olie verandert namelijk samen met de motortemperatuur.

De 'koude viscositeit' is belangrijk in die zin dat de olie ook bij lage buitentemperaturen (bijvoorbeeld in de winter) haar rol als smeermiddel moet vervullen zodra de motor wordt gestart. Hoe lager deze waarde, hoe gemakkelijker de olie zal circuleren. Het tweede getal geeft het vermogen van de olie aan om zelfs bij hoge temperaturen een resistente film te vormen. Naarmate de olie warmer wordt, wordt ze namelijk vloeibaarder, wat een ontoereikende smering kan veroorzaken als ze té vloeibaar wordt. Hoe hoger dat getal, hoe dikker de oliefilm zal zijn. De getallen in de code gaan tot 0 voor de 'koude viscositeit' en tot 60 voor de 'warme viscositeit'. De autoconstructeurs neigen naar steeds vloeibaardere oliën. De redenen daarvoor liggen voor de hand, want volgens Oliver Kuhn van LIQUI MOLY kan met een vloeibare motorolie het verbruik met 2 tot 3 procent worden verlaagd.

Kwaliteitsnormen

Er zijn twee belangrijke normen om de technische eigenschappen van oliën te quoteren: die van de Association of European Automobile Manufacturers (ACEA) en die van het American Petroleum Institute (API). De API- en ACEA-specificaties valideren een kwaliteitsniveau dat door alle constructeurs wordt erkend. Toch voegen sommige van hen er ook nog hun eigen eisen aan toe.

De ACEA-normen, die gelden sinds 1 januari 1996, zijn onder te verdelen in drie groepen: A voor benzinevoertuigen, B voor diesels en C voor oliën die specifiek zijn voor bepaalde constructeurs. Deze letter wordt gevolgd door een cijfer van 1 tot 5 dat de kwaliteit van de olie aangeeft. Hoe hoger het getal, hoe beter (zie tabel). Het principe voor de API-norm is vergelijkbaar. Benzinemotoren worden aangeduid met de letter S, dieselmotoren met de letter C. De tweede letter geeft de prestaties van de olie weer. Hoe verder in het alfabet, hoe beter de eigenschappen van de olie. Oliver Kuhn van LIQUI MOLY vat de behoefte aan specifieke oliën als volgt samen: "Olie is een vloeibaar reserveonderdeel dat specifiek op een bepaald type motor is afgestemd. Net zoals er niet één remset is voor elk type voertuig, is er ook niet één olie voor elke auto."

La marque de lubrifiants et d'additifs a été référencée par le réseau de centres autos Feu Vert. Liqui Moly s'est félicitée de ce partenariat qui améliorera la disponibilité de ses produits sur le marché hexagonal.



Depuis le début de l'année, les huiles et additifs Liqui Moly sont disponibles dans le réseau Feu Vert.

Par Mohamed Aredjal

Deux ans après avoir repris en main la distribution de ses produits dans l'Hexagone, via sa filiale LM France, [Liqui Moly](#) vient de franchir une étape importante dans son développement. La marque lubrifiants et d'additifs a en effet scellé un accord commercial avec [Feu Vert](#) depuis le début de l'année lui permettant de distribuer ses produits dans les 350 centres autos de l'enseigne. "C'est un grand pas pour Liqui Moly", se réjouit **Abdellatif Dakkak**, PDG de LM France.

Grâce à ce partenariat, le fabricant d'huiles et d'additifs espère notamment renforcer sa notoriété sur le marché tricolore. "La marque *Liqui Moly* est déjà beaucoup plus connue dans nos pays voisins. C'est passionnant de pouvoir participer au début de sa success story en France", confirme Gilles Pont, responsable marketing crosscanal de Feu Vert.

Liqui Moly en pleine ascension

L'annonce de cet accord survient alors que Liqui Moly vient de battre son record de ventes mensuelles. En mars dernier, le groupe allemand a enregistré un chiffre d'affaires de 65 millions d'euros, soit une hausse de 19 % par rapport à l'année précédente. "Nous récoltons ce que nous avons semé l'an dernier", se félicite le directeur général **Ernst Prost**.

En effet, lorsque la crise du Covid-19 a éclaté l'an dernier, la marque a doublé ses investissements marketing à court terme pour contrecarrer la baisse de la demande. Cette stratégie s'est avérée d'autant plus judicieuse que de nombreux concurrents avaient décidé de réduire leur budget et leur service au même moment.

"Grâce à notre solide démarrage au premier trimestre, nous avons le vent en poupe et la possibilité de faire de 2021 l'année la plus réussie de l'histoire de *Liqui Moly*, malgré les difficultés que la pandémie peut encore nous présenter", conclut Ernst Prost.

Liqui Moly: soluzioni per la pulizia dell'impianto A/C



Prodotti professionali: ecco la gamma Liqui Moly per la manutenzione dell'impianto di climatizzazione.

Uno dei segnali di malfunzionamento di un **impianto A/C** è dato dalla difficoltà nel raffreddare l'abitacolo unita a un cattivo odore: si tratta di un segnale facilmente percepibile dall'automobilista e su cui vale la pena indagare. Non sempre il proprietario di un veicolo si rivolge direttamente a un professionista, ma magari cerca prima di risolvere il problema cercando prodotti di pulizia professionali da un **ricambista**.



Ecco perché **Liqui Moly** ha nel suo portafoglio prodotti sia soluzioni per il professionista, sia per l'automobilista: vediamo più in dettaglio l'offerta.

Klima Refresh per un primo intervento

Una soluzione "professionale" dedicata però all'automobilista e che può essere acquistata presso i rivenditori specializzati si chiama **Klima Refresh** ed è un prodotto utile per un primo intervento. Liqui Moly, infatti, sottolinea che questa soluzione non agisce così a fondo come una pulizia professionale effettuata in officina, ma può rappresentare una buona alternativa che lo stesso ricambista o autoriparatore può consigliare al proprio cliente per la sua praticità.

In pratica, è sufficiente posizionare il barattolo aperto all'interno dell'abitacolo con i finestrini chiusi, il motore acceso e il climatizzatore avviato in modalità ricircolo d'aria. Il prodotto viene lentamente nebulizzato e la ventilazione ne permette la diffusione nei canali di aerazione e lo porta fino all'evaporatore del climatizzatore. I tensioattivi altamente efficaci puliscono l'evaporatore, sciogliendo lo strato di sporco e facendolo sgocciolare via insieme con l'acqua di condensa. Dopo **10 minuti** l'operazione è conclusa e nell'abitacolo rimane un gradevole profumo di limone. Il contenuto del barattolo è sufficiente per un intervento.

Prodotti professionali per la pulizia A/C

Liqui Moly propone anche una serie di prodotti e accessori dedicati al professionista per la **pulizia dell'impianto clima**. In particolare, per agevolare l'autoriparatore, Liqui Moly propone un **set completo** che comprende: 5 litri di detergente per impianti di climatizzazione (articolo 4092), pistola spray per la pulizia degli impianti di aria condizionata (articolo 4090) con serbatoio a pressione, etichetta adesiva, brochure per il cliente e targhette da appendere allo specchietto retrovisore.

PAG 100 per la manutenzione dell'impianto A/C

Per il corretto funzionamento dell'impianto di climatizzazione è importante effettuare una regolare manutenzione e Liqui Moly propone al professionista degli oli dedicati.

Per gli impianti tradizionali, cioè che funzionano con il **gas R134a**, Liqui Moly propone **PAG 100**.

Si tratta di un olio per climatizzatori fluorescente, totalmente sintetico a base di polialchilene glicole con un'ottima compatibilità con il gas R134a.

Non è adatto né ai circuiti di fluido refrigerante riforniti con refrigerante R1234yf, né ai veicoli ibridi o elettrici con compressori alimentati elettricamente.

Il PAG 100 soddisfa i requisiti dei principali produttori di compressori refrigeranti. Conforme alla ISO VG Classe 100.

PAG 100 R-1234 YF

Per gli impianti che utilizzano il refrigerante **R1234yf**, Liqui Moly offre **PAG 100 R-1234 YF**.

Questo è un olio totalmente sintetico, a base di glicole polialchileno (PAG), da utilizzare per la lubrificazione, il ripristino della tenuta e il raffreddamento di componenti scorrevoli e rotanti di compressori per fluido refrigerante o di circuiti del liquido di raffreddamento in climatizzatori di autovetture e veicoli pesanti.

Può essere ben miscelato con i fluidi refrigeranti del tipo R1234yf o R134a. È **igroscopico**, assorbe l'umidità dell'aria circostante e pertanto viene riempito in presenza di azoto.

Soddisfa i requisiti richiesti dagli importanti costruttori di compressori per fluido refrigerante e di impianti di refrigerazione. Grazie al colore fluorescente consente di trovare rapidamente le perdite utilizzando una lampada UV.

Per bagnare le guarnizioni in fase di montaggio, l'olio viene applicato con un pennello per garantire una buona tenuta del sistema. Per aggiungere o sostituire l'olio per fluido refrigerante in condizionatori di autovetture o veicoli industriali, il prodotto viene messo in uno speciale cilindro di riempimento e portato nel circuito del fluido refrigerante tramite l'apparecchio di riempimento del condizionatore. In caso di perdite del circuito del fluido refrigerante, con una **lampada UV** si ispezionano le tubazioni del fluido refrigerante del veicolo in un ambiente buio. La luce UV rende visibili le perdite da cui fuoriesce il PAG Oil che assume un colore giallo fluorescente.

**LIQUI
MOLY**
MADE IN GERMANY

КАК ВЫБРАТЬ: МАСЛО ДЛЯ КВАДРОЦИКЛА

Благодаря особенностям конструкции и небольшим размерам квадроцикл может решать широкий спектр задач, от прогулок и туризма до тяжёлых работ в подсобном фермерском хозяйстве. Как любой технике, квадроциклу необходимо своевременное и качественное обслуживание. А с учётом многочисленных оригинальных и высоконагруженных узлов, правильный выбор смазывающих материалов для них – это залог безотказной службы.

В отличие от всей остальной мототехники, квадроциклы работают на любой местности и в любое время года. А значит, масла для агрегатов квадроцикла должны иметь свою оригинальную рецептуру присадок, рассчитанных на высокие нагрузки при эксплуатации в самых суровых условиях.

Многие владельцы до сих пор полностью уверены, что автомобильные масла отлично подходят для двигателей мототехники, в том числе и квадроциклов. Однако это мнение ошибочно – двигатель квадроцикла работает в более жёстких режимах, и к моторному маслу предъявляются более высокие требования, отличные от автомобильных. Условия эксплуатации вынуждают мотор работать при более высоких температурах, а моторное масло не должно сильно разжижаться при нагреве. Это приведёт к закоксовке поршневые колец, к заметному угару масла и приблизит поломку мотора.

С маслами Liqui Moly можно быть абсолютно уверенным в качестве приобретаемой продукции, поскольку вся продукция изготавливается исключительно на собственном заводе в городе Ульм в Германии.

НС-синтетическое моторное масло для 4-тактных мотоциклов ATV 4T Motoroil Offroad 10W-40 обладает повышенной стойкостью к окис-



лению, перегревам, попаданию воды, пыли. НС-синтетическое моторное масло для 4-тактных мотоциклов ATV 4T Motoroil 5W-50, специальный продукт, изготовлен для обеспечения максимальной защиты и производительности при любых условиях эксплуатации классических ATV и тяжело нагруженных UTV. Масло 5W-50 рассчитано на больший диапазон температур, более суровые условия эксплуатации и преимущественно для американской техники. 10W-40 – для большинства квадроциклов с 4-тактными моторами.

Подробную информацию читайте на сайте nat-geo.ru



МАСЛА ДЛЯ КВАДРОЦИКЛОВ



Благодаря особенностям конструкции и небольшому размеру квадроцикл может решать широкий спектр задач, от прогулок и туризма, до тяжёлых работ в подсобном хозяйстве. Не зря популярность ATV или UTV растёт с каждым годом. Но, как любой технике, квадроциклу необходимо своевременное и качественное обслуживание и правильный выбор смазывающих материалов.

Особенности выбора масла

Чтобы правильно выбрать масла для квадроцикла, нужно следовать рекомендациям производителя и учитывать условия эксплуатации. В отличие от остальной мототехники, квадроциклы работают в тяжёлых условиях и в любое время года. А значит, масла для них должны соответствовать условиям эксплуатации. Кроме того, квадроцикл, в отличие от автомобилей, может иметь меньший объём картера, что негативно влияет на срок службы моторного масла. Это значительно повышает требования к высокой стойкости к окислению и термостабильности.

Многие владельцы уверены, что автомобильные моторные масла отлично подходят для квадроциклов. Однако это мнение ошибочно — здесь двигатель работает в более жёстких режимах, и к моторному маслу предъявляются более жесткие требования. Мотор работает при более высоких температурах и нагрузках.

Моторы квадроциклов по своим техническим характеристикам и конструктиву близки к двигателям мотоциклов. Поэтому масла для них практически идентичны. На абсолютном большинстве квадроциклов сегодня установлены четырёхтактные двигатели — одно или двухцилиндровые. И вся схожесть с автомобильными маслами заканчивается на типах основы масла — синтетической, HC-синтетической, полусинтетической и минеральной. Основное отличие автомобильных масел от мотоциклетных (квадроциклетных) в пакете присадок. Которые существенно влияют на состав масла и его характеристики. Тем значительно улучшаются характеристики по защите двигателя от износа даже в самых суровых условиях эксплуатации. Минеральные и полусинтетические масла на сегодняшний день наименее востребованы в основном из-за неспособности долгое время держать повышенные нагрузки. Единственный их плюс — меньшая цена. Масла на HC-синтетической основе, обладают улучшенными характеристиками, более стойки к окислению и, по сравнению с минеральными имеют больший запас живучести. Большой плюс этих масел возможность эксплуатации техники в зимний период. Использовать зимой минералку или полусинтетику можно, учитывая, что на сильном морозе прокачиваемость этих масел сильно снизится и двигатель при недостаточной смазке может пострадать.

Лучшие масла и продукты для эксплуатации квадроциклов

Среди многообразия смазок и технических жидкостей сложно сделать правильный выбор. Выбирать следует продукцию проверенных производителей. В качестве продукции Liqui Moly можно быть абсолютно уверенным — она изготавливается на собственном заводе в городе Ульм в Германии. В ассортименте компании не только моторные масла и различные смазки, но и средства косметики для ухода за внешним видом техники и экипировки.

Технические специалисты Liqui Moly рекомендуют обратить внимание на специализированные масла, разработанные для ATV и UTV

- HC-синтетическое масло для 4-тактных моторов ATV 4T Motoroil Offroad 10W-40. Специальный продукт для высоконагруженных двигателей с «мокрым» и «сухим» сцеплением и для вариаторов «мокрого» типа. Масло обладает повышенной стойкостью к окислению, перегревам, попаданию воды, пыли.
- HC-синтетическое масло для 4-тактных моторов ATV 4T Motoroil 5W-50 обеспечит максимальную защиту при любых условиях эксплуатации. Обладает отличными низкотемпературными свойствами.
- Минеральное всесезонное трансмиссионное масло Motorbike Axle Oil ATV 10W-30 для редукторов и муфт подключения переднего привода квадроциклов. Подходит для тяжёлых условий эксплуатации. Снижает трение, износ, способствует экономии топлива.
- Синтетическое всесезонное трансмиссионное масло Motorbike Gear Oil VS 75W-140 на базе полиальфаолефинов (ПАО) для редукторов и некоторых коробок передач. Хорошо переносит ударные нагрузки, снижает трение, износ, уменьшает шумы при работе. Совместимо с материалами фрикционов.
- Спортивная тормозная жидкость Brake Fluid Race отлично выдерживает перегревы, связанные с частыми и интенсивными торможениями в спортивных режимах или при эксплуатации в горной местности.
- Синтетическое масло для амортизаторов Motorbike Stosssdaempferoil VS RACE — 100% ПАО-синтетическое масло. Подавляет пенообразование, обеспечивает герметичность, обеспечивает плавный ход и отличную амортизацию.
- Очиститель Schnell-Reiniger используется для очистки от масляных и жировых загрязнений деталей тормозной системы, коробки передач, сцепления и т. п. Быстро испаряется, не оставляет следов.
- Бесцветная смазка-силикон Silicon-Spray надежно защищает резиновые и пластиковые детали от высыхания и воздействия ультрафиолета.
- Очиститель мотоциклов Motorbike Cleaner, удаляет загрязнения, защищает, придает элегантный внешний вид. Нейтрален к коже рук. Оставляет глянцевую защитную пленку на очищенных деталях.
- Средство для ухода за кожей Motorbike Leder-Kombi-Pflege — лосьон на водной основе с натуральным пчелиным воском. Хорошо удаляет загрязнения, предотвращает высыхание, растрескивание и огрубение кожи рук.



Пока на многих водоемах в связи с перестом рыбы спуск лодок на воду запрещен, самое время подготовить свое моторное плавсредство к скорому открытию сезона.

ГОТОВИМ ЛОДОЧНЫЙ МОТОР К СЕЗОНУ

Дмитрий ЗЛЕНКО

Немаловажно после зимних «каникул» подготовить к эксплуатации мотор, особенно если вы не законсервировали его осенью. Владелец 4-тактных подвесов перво-наперво необходимо сменить масло в ДВС. Причем, даже если в прошлом сезоне вы ходили по морям, по волнам всего пару-тройку раз, важно помнить, что любое поработавшее масло неизбежно окисляется и частично теряет свои свойства. Продукты окисления за месяцы простоя уже успели отложиться на стенках движка, и в дальнейшем они могут перерасти в более густые отложения, способные закоксовать элементы цилиндра-поршневой группы и ГРМ.

В бочке с водой слегка прогрейте мотор. Заодно посмотрите, хорошо ли работает помпа. Струйка воды, выходящая из рубашки охлаждения, должна литься ровно и уверенно. Если струи на холостом ходу нет или она слабая, то, скорее всего, в системе охлаждения была вода, которая зимой замерзла и повредила помпу. В этом случае замену масла нужно отложить и заняться починкой системы охлаждения.

Если же с помпой все хорошо, то, после того как прогрели мотор, слейте с него старое масло. В качестве нового лубриканта рекомендуем залить синтетическое моторное масло для лодок **Marine 4T Motor Oil 10W-40** от **Liqui Moly**. Этот качественный немецкий продукт предназначен для работы в 4-тактной морской или

речной технике с воздушным и водяным охлаждением. Современный пакет присадок обеспечивает оптимальное смазывание и надежную работу двигателя плавательного средства при самых различных температурах. **Marine Motoroil 4T 10W-40** подходит как для бензиновых подвесных моторов любой мощности, так и для дизельных силовых установок, обеспечивая им высокую



надежность работы. Стабильность вязкостных характеристик данного масла, вне зависимости от температурного режима, гарантирует хорошую защиту двигателя от износа.

Ну а коли вы владелец 2-тактного мотора, то замена моторного масла вам не потребуется. Однако если с прошлого сезона в топливном баке у вас осталась бензино-масляная смесь, то ее не мешало бы обновить, поскольку горючее за зиму могло, что называется, выдохнуться. Добавьте в бак стабилизатор топлива **Liqui Moly Marine Fuel Stabilizer**. Данный бензоконсервант, в идеале, нужно было добавить перед зимовкой, но и в начале сезона он поможет вдохнуть жизнь в старое топливо. Комплекс антиоксидантов и антикоррозионных присадок препятствуют осмолению бензина и падению октанового числа. Антикоррозионные присадки создают на металлических поверхностях топливной системы защитный слой, предотвращающий притягивание молекул воды к поверхностям.

Ну и загодя обзаведитесь запасом качественного 2-тактного масла для «подвесов». **Liqui Moly Marine 2T DFI Motor Oil** — это полусинтетическое моторное масло для водной техники, рекомендованное как для классических 2Т моторов, так и для впрысковых DFI. Химический состав масла предотвращает образование нагара в камере сгорания и выпускных каналах, эффективно смазывает детали, снижает вибрацию и общий уровень шума. И главная изюминка этого экологически безопасного для водной флоры и фауны масла — практически бездымное сгорание. ♦

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