LIQUI MOLY



MARINE PRODUCTS OVERVIEW



YOUR SAFE HARBOR FOR ENGINE & TANK.

KEEPING YOU SAFE WHENEVER YOU GO ON THE WATER: OUR MARINE RANGE.

On the water, reliability comes first. Only those who can rely on their engine and material at all times are immune to unpleasant surprises. Permanent moisture, changing, often rough weather conditions and irregular periods of use place the highest demands on technology and equipment. With our specially developed marine range, we ensure that your boat and equipment retain full function and performance over the long term.

We offer you tailor-made solutions from a single source for almost any maritime problem:
For one thing, we have engine and gear oils as well as fuel additives that can help you combat or avoid common problems such as poor lubrication, lack of preservation, corrosion and bacteria.
Secondly, greases and care products that guarantee maximum reliability and protection.

Welcome aboard:
Simply scan the QR code and go directly to the Marine website.

CONTENT



ADDITIVES 4

LUBRICANTS

Engine oils 4-stroke 7
Engine oils 2-stroke 8
Gear oils 8
Greases 9

MAINTENANCE & SERVICE PRODUCTS

Maintenance products 11
Coolants 12

ACCESSORIES 14

ADVERTISING MATERIAL & SALES PROMOTION 16

EXPLANATION OF THE PICTOGRAMS:

biodegradable and environmentally friendly product

especially recommended for regular use during the season

especially recommended for safe winterization or storage of the boat



ADDITIVES

THE ALL-ROUND CAREFREE GUARANTEE FOR YOUR BOAT: OUR ADDITIVES.

Our additives are aids or admixtures that you add to the fuel in small quantities. Depending on the additive, you can achieve or improve certain properties of your boat. Our additives optimize the performance of fuels or combat a wide variety of problems, e.g. due to water ingress. We offer you various additives for diesel and gasoline engines. Developed for common problems such as combating or preventing diesel bugs, long-term preservation or cleaning the entire fuel system and retaining the full engine performance.

	Diesel additives		Gasoline additives	
	Marine Diesel Protect	Marine Super Diesel Additive	Marine Fuel Stabiliser	Marine Fuel System Cleaner
Biocide	●●●	○○○	○○○	○○○
Cetane number improver*	●●○	●●●	○○○	○○○
Cleaning	●●●	●●○	○○○	●●●
Corrosion protection	●●●	●●○	●●●	●●○
Ageinig protection	●●○	○○○	●●●	○○○
Performance	●●○	●●●	○○○	●●○
Continuous use	●●●	●●●	●●●	●●●

*The cetane number describes the ignition performance of diesel fuel.



Marine Diesel Protect

Efficient solution for bacteria, yeast and mold. Suitable for reliable long-term preservation. Maintains and protects the entire fuel system thanks to cleaners and corrosion protection. With cetane number booster for easier starting when recommissioning and maximum engine performance. Protects against the negative effects of water in fuel systems. **Use biocides safely. Always read the label and product information before use.**

For preventive use and for de-infesting contaminated tank systems on vessels and in storage tanks. Ratio 1:200 booster dose for systems which are already contaminated. One measuring cup (25 ml) is sufficient for 5 l of diesel fuel. As a preventive application (1:1000), one dosage chamber (25 ml) is sufficient for 25 l of diesel fuel.

Cont.	Packaging Unit	Part no.
200 ml	20	**25099** [152]
500 ml	6	**25000** [114]
500 ml	6	**25001** [162]
1 l	6	**25002** [114]
1 l	6	**25003** [162]

Click here for confirmation of effectiveness.



Marine Super Diesel Additive

A combination of agents which cleans, protects and boosts the cetane number. The increase in ignition performance improves the combustion of the fuel. Corrosion protection additives protect the entire fuel system reliably against the formation of rust and corrosion. Due to its outstanding cleaning properties, the components remain clean and deposits are prevented from forming. Protects against the negative effects of water in fuel systems.

For all diesel engines in the marine sector, including pumped jet and common rail injection systems. Fully compatible with all conventional diesel and biodiesel fuels. 500 ml is sufficient for 250 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 12.5 l of fuel.

Cont.	Packaging Unit	Part no.
500 ml	6	**25004** [114]
500 ml	6	**25005** [162]
1 l	6	**25006** [114]
1 l	6	**25007** [162]



Marine Fuel Stabiliser

Preserves and protects fuel against aging and oxidation. Prevents corrosion throughout the fuel system and ensures no problems arise when decommissioning the engine. Stabilizes gasoline with organic content.

For all 2-stroke and 4-stroke gasoline engines for storage and preservation. Also suitable for long-term use in seldom-used engines. 500 ml is sufficient for 100 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 5 l of fuel.

Cont.	Packaging Unit	Part no.
500 ml	6	**25008** [114]
500 ml	6	**25009** [162]



Marine Fuel System Cleaner

Highly effective combination of cleaning and preserving additives for 2-stroke and 4-stroke gasoline engines. Removes deposits on injection valves, intake valves, spark plugs and in the combustion chamber and prevents new deposits from forming. Improves the engine running, eliminates starting problems and rough engine running. Saves fuel and reduces pollutant emissions. Protects against the negative effects of water in fuel systems.

For all types of gasoline injection systems and carburetors. For adding to fuel tanks to rectify and prevent problems. 500 ml is sufficient for 250 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 12.5 l of fuel.

Cont.	Packaging Unit	Part no.
500 ml	6	**25010** [114]
500 ml	6	**25011** [162]

[114] DE-ES-FR-IT-NL [152] DE [162] DA-EL-EN-FI-NO-SV

LUBRICANTS

FOR A LONG ENGINE AND GEARBOX LIFE: OUR QUALITY LUBRICANTS.

As a lubricant specialist with over 60 years of experience, we also apply our know-how to the maritime sector. The result is high-quality engine and gear oils that have been specially developed to withstand the harsh operating conditions at sea without compromise. Maximum quality made in Germany for maximum protection and reliability. Naturally with the approvals and specifications of leading manufacturers as well as the lubricant standards according to the NMMA. In this way, we make a fundamental contribution so that you can always rely on your engine, spend less money on maintenance and repairs, experience fewer problems and always return safely to port.

THE RIGHT LUBRICANT FOR ALL BOATS.

For the questions “Which motor oil?” or “Which gear oil?”, use the LIQUI MOLY oil guide. Because approvals, specifications and viscosities such as 10W-30, 15W-40, 25W-40 etc. are not immediately understandable to everyone. No problem at all! With our oil guide, even without this existing knowledge you can find the right motor oil in just a few steps , as well as other suitable products from our full product line. Try it out now!



Our online oil guide on www.liqui-moly.com

10W-30



Marine 4T Motor Oil 10W-30

High-performance low-friction motor oil based on synthetic technology. Provides increased corrosion and wear protection as well as quick oil penetration of the engine and turbocharger with additives specially adapted to maritime use. Exceeds leading engine manufacturers' requirements. Fulfills warranty cover provided by manufacturers who require NMMA FC-W Catalyst Compatible® approval.

Specifications and approvals: API SM, NMMA FC-W Catalyst Compatible®

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Honda Marine, Mercury Marine, NMMA FC-W, Selva, Suzuki Marine, Tohatsu, Volvo Penta, Yamaha

Area of use: For all gasoline-driven inboard and outboard engines.

Cont.	Packaging Unit	Part no.
1 l	6	25022 [513]
5 l	4	25023 [513]
20 l	1	25024 [146]
60 l	1	25025 [146]
205 l	1	25074 [146]

10W-40



Marine 4T Motor Oil 10W-40

High-performance low-friction motor oil based on synthetic technology with modern additive technology. Specially developed for maritime use. Provides excellent wear and corrosion protection and maximum engine cleanliness. Meets leading engine manufacturers' requirements. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: ACEA A3/B4, E7, API SL, API CI-4, Mack EO-N, Renault Trucks RLD-2, Volvo VDS-3

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Caterpillar ECF-1-a, Caterpillar ECF-2, Cummins CES 20071, Cummins CES 20072, Cummins CES 20076, Cummins CES 20077, Cummins CES 20078, Detroit Diesel, Deutz DQC III-10, MAN M 3275-1, Mercury Marine, MTU Typ 2, Selva, Suzuki Marine, Tohatsu, Yamaha

Area of use: For all gasoline and diesel engines in the marine sector. Especially suitable for high-load boat engines.

Cont.	Packaging Unit	Part no.
1 l	6	25012 [513]
5 l	4	25013 [513]
20 l	1	25060 [146]
60 l	1	25014 [146]
205 l	1	25075 [146]



Marine PWC Oil 10W-40

High-performance motor oil based on synthetic technology. The special additive package ensures maximum engine performance and ideal wear protection. Guarantees the best possible lubrication, outstanding engine cleanliness and excellent friction values for wet clutches, even at high speeds. Satisfies or exceeds the requirements and specifications of the leading engine manufacturers.

Specifications: API SP, JASO MA2

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Honda, Kawasaki, SeaDoo, Suzuki, Yamaha

Area of use: Especially suitable for PWC (personal water craft) 4-stroke engines. Ideal for sporting applications. Ideally suited for engines with or without a wet clutch.

Cont.	Packaging Unit	Part no.
1 l	6	25076 [502]
4 l	4	25077 [502]

15W-40



Marine 4T Motor Oil 15W-40 New Generation

High-performance lubricant developed for maritime use. Meets the demands of modern engine design thanks to innovative additive technology with improved wear protection and optimized oxidation stability. Thanks to its low-ash formulation, ensures improved compatibility for catalytic converters and diesel particulate filters (DPF).

Specifications and approvals: ACEA E9, E11, API CK-4, API SN, Cummins CES 20086, Detroit Diesel DFS 93K222, Mack EOS-4.5, Renault Trucks RLD-3, Volvo VDS-4.5

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: ACEA E7, Caterpillar ECF-3, Deutz DQC III-10 LA, JASO DH-2, MAN M 3575, MTU Typ 2.1

Area of use: All-season oil for gasoline and diesel engines in boats. Thanks to its excellent performance, ideal for modern, low-emission engines.

Cont.	Packaging Unit	Part no.
1 l	6	25089 [502]
5 l	4	25090 [502]
20 l	1	25091 [146]
60 l	1	25092 [146]
205 l	1	25093 [146]



Marine 4T Motor Oil 15W-40

High-performance motor oil based on selected base oils and modern additive technology. Developed specifically for the maritime requirements. Even in extreme conditions guarantees optimum lubrication and reliable protection against wear. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: ACEA A3/B4, E7, API CI-4, API SL, Mack EO-N, MTU Typ 2, Renault Trucks RLD-2, Volvo VDS-3

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Caterpillar ECF-1-a, Caterpillar ECF-2, Cummins CES 20076, Cummins CES 20077, Cummins CES 20078, Detroit Diesel, Deutz DQC III-10, MAN M 3275-1

Area of use: All-season oil for gasoline and diesel boat engines. Can be mixed with all commercially available motor oils.

Cont.	Packaging Unit	Part no.
1 l	6	25015 [513]
5 l	4	25016 [513]
20 l	1	25061 [146]
60 l	1	25017 [146]
205 l	1	25018 [146]

For current specifications and manufacturers' approvals, see the oil guide or technical data sheet.
Comply with the vehicle or aggregate manufacturer's instructions.

[146] DE-EN [502] AR-BG-CS-DA-DE-EL-EN-ES-FI-FR-HR-HU-IT-KK-NL-NO-PL-PT-RO-RU-SK-SV-TR-ZH
[513] AR-BG-CS-DA-DE-EL-EN-ES-FI-FR-HR-HU-IT-KK-NL-NO-PL-PT-RO-RU-SK-SV-TR-UK-ZH

ENGINE OILS 4-STROKE

20W-50



Marine 4T Motor Oil 20W-50

High-performance motor oil based on selected base oils and modern additive technology. Developed specifically for maritime requirements. Even in extreme conditions guarantees optimum lubrication and reliable protection against wear. The high proportion of corrosion inhibitor prevents the formation of rust and corrosion.

Specifications and approvals: API CH-4, API SL

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Cummins CES 20076, Cummins CES 20077, MAN M 3275-1, MTU Typ 2, Volvo VDS-2

Area of use: All-season oil for all gasoline and diesel engines in the marine sector. Especially suitable for high-load boat engines.

Cont.	Packaging Unit	Part no.
1 l	6	25038[504]

25W-40



Marine 4T Motor Oil 25W-40

High-performance motor oil with synthetic additives specially adapted to maritime use. Even under extreme operating conditions, it provides for a stable lubricating film. Keeps engine seals such as shaft sealing rings and valve stem seals flexible and minimizes oil consumption. Meets leading engine manufacturers' requirements. Fulfills warranty cover provided by manufacturers who require NMMA FC-W Catalyst Compatible® approval. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: API SM, NMMA FC-W Catalyst Compatible®

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Honda Marine, Mercury Marine, NMMA FC-W, Selva, Suzuki Marine, Tohatsu, Volvo Penta, Yamaha

Area of use: For gasoline-driven inboard and outboard engines. Can be mixed with all commercially available motor oils.

Cont.	Packaging Unit	Part no.
1 l	6	25026[502]
5 l	4	25027[502]
20 l	1	25028[146]
60 l	1	25029[146]
205 l	1	25057[146]

SAE 30



Marine Single Grade SAE 30

Single-grade mineral motor oil for gasoline and diesel engines with a naturally high viscosity index. It provides for a stable lubricating film even under extreme operating conditions. Its high alkaline reserve prevents corrosion even with use of diesel fuels with high sulfur content. Lightly blended for use in classic engines as well. Prevents sludge formation and offers reliable protection against wear.

Specifications and approvals: ACEA E2, API SJ, API CF, API CF-4

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: MAN 270, Volvo VDS

Area of use: For universal use in gasoline and diesel engines and in transmissions for which the manufacturer specifies an SAE 30 mineral oil. Particularly suitable for older engines. Tested for compatibility with turbochargers.

Cont.	Packaging Unit	Part no.
1 l	6	25065[513]

ENGINE OILS 2-STROKE



Marine 2T Motor Oil

High-performance 2-stroke motor oil based on selected base oils and specially formulated additives. Ensures reliable lubrication, high operational reliability and outstanding protection against wear and corrosion.

Specifications and approvals: API TC, JASO FB, NMMA TC-W3®

Area of use: For air and water-cooled 2-stroke marine engines with separate and premix lubrication systems. Self-mixing. Mixing ratio up to 1:100. Please note that the mixture ratio specified by the manufacturer must be observed.

Cont.	Packaging Unit	Part no.
1 l	6	25019[513]
5 l	4	25020[513]



Marine 2T DFI Motor Oil

Semi-synthetic, ultra-high-performance 2-stroke motor oil specially developed for the marine sector. Specially developed to satisfy the complex requirements of the latest generation of direct injection engines. Ensures optimum lubrication even at high operating temperatures, guarantees maximum engine and piston cleanliness and low-fuming combustion.

Specifications and approvals: NMMA TC-W3®

LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Evinrude E-Tec Engines, ISO L-EGC, ISO L-EGD, JASO FC, JASO FD, Mercury DFI 2 stroke Engines

Area of use: Recommended and tested for Evinrude E-Tec and Mercury DFI 2-stroke engines. Can be used in the mixing ratios 1:30, 1:50 or 1:100. Also suitable for all other 2-stroke and DFI 2-stroke engines. For separate and mixture lubrication.

Cont.	Packaging Unit	Part no.
1 l	6	25088[502]
5 l	4	25063[513]

For current specifications and manufacturers' approvals, see the oil guide or technical data sheet.
Comply with the vehicle or aggregate manufacturer's instructions.

[146] DE-EN [502] AR-BG-CS-DA-DE-EL-EN-ES-FI-FR-HR-HU-IT-KK-NL-NO-PL-PT-RO-RU-SK-SV-TR-ZH [504] AR-BG-CS-DA-EL-EN-ES-FI-FR-HR-HU-IT-KK-NL-NO-PL-PT-RO-RU-SK-SV-TR-ZH [513] AR-BG-CS-DA-DE-EL-EN-ES-FI-FR-HR-HU-IT-KK-NL-NO-PL-PT-RO-RU-SK-SV-TR-UK-ZH

GEAR OILS

	Area of use	Cont.	Packaging Unit	Part no.
				
Marine ATF ATF oil specially developed for the marine sector based on synthetic technology and the latest additive technology. Offers increased corrosion protection and minimizes wear compared with conventional ATF oils. The high thermal stability and excellent protective properties give it optimum resistance to aging with maximum safety reserves. Compatible with all sealing materials. Specifications and approvals: ZF TE-ML 04D, ZF approval number ZF004927 LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: Allison C4, Dexron II D, Dexron II E, Dexron III G, Dexron III H, Dexron TASA (Typ A/Suffix A), Mariner, MerCruiser, Mercury	For drives and transmissions such as reverse gears, power steering, steering systems, trimming systems, hydrostatic transmissions and hydraulic and mechanical systems that require the use of an ATF oil. Cannot be used where GL4 or GL5 oils are specified.	1 l 1 l	6 6	**25066** [114] **25067** [162]
				
Marine Fully Synthetic Gear Oil GL4/GL5 75W-90 Fully synthetic high-performance gear oil with extremely high performance reserves. Ensures assemblies function perfectly, even under extreme operating conditions and when exposed to large temperature fluctuations. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 75W-90 viscosity grade. Specifications and approvals: API GL4/5, API MT-1 LIQUI MOLY recommends this product for vehicles or assemblies for which the following specifications or original spare part numbers are required: ZF TE-ML 02B, ZF TE-ML 05A, ZF TE-ML 12L, ZF TE-ML 12N, ZF TE-ML 16F, ZF TE-ML 17B, ZF TE-ML 19C, ZF TE-ML 21A	For marine transmissions which require a top quality lubricant. Also suitable for drive wheels of different categories and reverse gears. Exceeds the highest test requirements of well-known transmission manufacturers.	250 ml 250 ml 1 l 1 l 20 l	12 12 6 6 1	**25036** [148] **25037** [162] **25070** [114] **25071** [162] **25040** [146]
				
Marine Gear Oil GL4/GL5 80W-90 High-performance gear oil based on selected base oils. With special additives for manual shift transmissions. Minimizes wear and noise. Outstanding corrosion protection and resistance to aging. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade. Specifications and approvals: API GL4/5, API MT-1	For outboard and inboard transmissions subject to a normal to high load. Also suitable for Z-drives.	250 ml 250 ml 1 l 1 l 20 l 60 l	12 12 6 6 1 1	**25030** [114] **25031** [162] **25068** [114] **25069** [162] **25034** [146] **25035** [146]
				
Marine High Performance Gear Oil 85W-90 Special high-performance gear oil for the maritime sector. With unique package of additives that guarantees outstanding wear protection even in the case of contamination with water. Stable under extreme pressures even under high stresses and at high speeds. Offers outstanding corrosion protection and very good oxidation resistance.	Meets the requirements of common transmission manufacturers in the marine sector. For Mercury outboard motors as of 75 hp output as well as MerCruiser Z-drives. Can be used as a replacement for a high-performance gear lube with viscosity SAE 90.	1 l 1 l 20 l 60 l	6 6 1 1	**25078** [114] **25079** [162] **25080** [146] **25081** [146]

GREASES

				
Marine Grease Heavy-duty grease for many of the lubrication points for maintenance in the marine sector. Reduces friction and wear. Extremely long-lasting lubrication properties. Excellent aging and shear stability, and resistant to hot and cold water. Water-repellent and totally impervious to saltwater. Meets the requirements of NATO Marine Specification G460. Resistant in wet environments and provides excellent sealing properties. Labeling according to DIN 51502. KPF2G-20.	Versatile product for use on grease points across all marine needs. Can also be used for exterior components which are exposed to salty air and salt water.	250 g 250 g 400 g 400 g	12 12 12 12	**25041** [114] **25042** [162] **25043** [114] **25044** [162]
				
Marine Winch Grease Synthetic high-performance grease with PTFE solid lubricants. Specially developed for all kinds of winching and hoisting applications. The solid lubricant provides the ultimate in wear protection and reduces friction. Resistant to fresh water and saltwater, with excellent adhesive properties. Does not contain resins or acids.	Ideally suited for winching and hoisting applications with non-ferrous metal pairings or plastic/metal pairings. Powerful adhesive properties and neutral with respect to harmful environmental impact.	100 g 100 g	6 6	**25045** [114] **25046** [159]

For current specifications and manufacturers' approvals, see the oil guide or technical data sheet.
Comply with the vehicle or aggregate manufacturer's instructions.

[114] DE-ES-FR-IT-NL [146] DE-EN [148] DE-EL-ES-FR-IT [159] DA-EN-FI-NO-RU-SV [162] DA-EL-EN-FI-NO-SV [487] D-GB

MAINTENANCE & SERVICE PRODUCTS

IN ORDER TO ENSURE THAT YOUR BOAT SHINES BOTH VISUALLY AND TECHNICALLY FOR AS LONG AS POSSIBLE.

Boats are subjected to the most varied, often extreme environmental influences due to salt water, wind, sun, bird droppings and much more. Our Marine assortment offers you an extensive portfolio of specially developed, useful care and service products that are compatible with the material, easy to use and biologically degradable. Of course in the familiar LIQUI MOLY top quality.







		Area of use	Cont.	Packaging Unit	Part no.
	**Marine Anti-Limescale** Aqueous solution with inorganic acid. Removes all limescale deposits while protecting the material in the entire external cooling circuit and protects against corrosion.	Fo external cooling water systems on all boat engines including heat exchanger. Compatible with all materials used there. Not suitable for drinking water or fresh water supply.	5 l	1	**25047** [505]
	**Marine Universal Cleaner K** Low-foaming, biodegradable boat cleaner with outstanding cleaning performance. Dissolves even stubborn accumulated dirt such as dark drain tracks after lengthy storage, bird droppings, abrasion marks from shoes and dirt caused by fenders. Very economical thanks to efficient concentration for use. Biodegradable according to the Detergent and Cleaning Agent Law (Germany).	Universal special cleaner for routine cleaning or extremely dirty boats. Suitable for many different materials such as coated and uncoated plastics, GFRP and gelcoats as well as fabric soft tops, brass, aluminum, stainless steel, chrome, rubber and painted or sealed wood.	1 l	6	**25072** [114]
	**Marine Multi-Spray** Special protection and care product for the marine sector. Keeps moving parts moving and protects against corrosion and oxidation. Drives out moisture and protects the vessel's entire electrical system. Frees up bolts which have rusted solid and reduces squeaking noises. Neutral acting on plastics, paints, metals and wood.	Versatile multi-purpose spray. For all maintenance and service work.	400 ml 400 ml	6 6	**25051** [115] **25052** [162]
	**Marine Storage Fogging Oil** Long-term protection against corrosion on the surfaces of the combustion chamber such as cylinder walls, piston crowns and piston rings. Ensures smooth restarting after shutdown.	For the reliable long-term preservation of all 2-stroke and 4-stroke gasoline and diesel engines such as those on boat and ships as well as assemblies and pumps.	300 ml 300 ml	6 6	**25032** [114] **25033** [162]
	**Marine Detailer** Highly effective gloss sealing spray with innovative protective formula. For fast, easy care of painted surfaces without polishing. Removes light soiling such as dust or water spots and gives a brilliant deep gloss. Seals smooth painted surfaces for several weeks and provides excellent water repellent effect and long-lasting protection against aggressive environmental influences. Maintains the cleaning finish for an extended period and reduces new dirt adhesion.	For the care and protection of smooth paintwork in the marine sector. Also on smooth plastic surfaces such as gelcoat, chrome, aluminum and stainless steel. GFRP compatible. Not suitable for matt painted surfaces.	500 ml	6	**25098** [146]
	**Microfiber Cloth** Universally applicable microfiber cloth for cleaning and care of almost all surfaces. Ensures a streak-free finish on smooth materials such as plastic, glass, stainless steel or sealed wooden surfaces. Washable up to 95 °C without fabric softener.	For the cleaning and care of a variety of surfaces.	1 pc	10	**1651** [136]
	**Super Soft Microfiber Cloth** High-quality, long-fiber, particularly fluffy microfiber cloth for wiping off care products and polishing residues and for drying after washing the vehicle. Borderless due to a special weaving process to avoid scratches on sensitive surfaces. Reliably absorbs wax and polish residues and ensures a brilliant deep sheen without streaks, smudges or cloudiness. Washable and therefore extremely long-lasting. Silicone-free.	For wiping off care products and polishing residues as well as drying after washing the vehicle on all sensitive surfaces such as paintwork, Plexiglas, foiling, plastic, stainless steel or even sealed wood.	1 pc	6	**21892** [136]

[114] DE-ES-FR-IT-NL [115] DE-ES-FR-IT [136] DE-EN-ES-IT-PT [146] DE-EN [162] DA-EL-EN-FI-NO-SV [505] DA-DE-EL-EN-ES-FI-FR-IT-NL-NO-SV



Marine Antifreeze

Combination of active agents based on a glycerin/water mixture. Offers excellent frost protection during the overwintering of pipes and protects against corrosion. Allows safe wintering in a coordinated mixing ratio with water, thus making it unnecessary to empty the lines completely. Biodegradable and environmentally friendly.

Area of use	Cont.	Packaging Unit	Part no.
For all external cooling water systems of the boat engine and the toilet system (wastewater system). Compatible with all materials. Not suitable for drinking water or fresh water supply!	5 l	4	**25082** [141]
	20 l	1	**25083** [505]
	60 l	1	**25084** [146]
	205 l	1	**25085** [146]



Marine Antifreeze Ready Mix

Ready-to-use mixture based on a glycerin/water mixture. Offers excellent frost protection during the overwintering of pipes and protects against corrosion. Biodegradable and environmentally friendly.

Area of use	Cont.	Packaging Unit	Part no.
For all external cooling water systems of the boat engine and the toilet system (wastewater system). Compatible with all materials. Not suitable for drinking water or fresh water supply.	1000 l	1	**25087** [146]

[141] DE-EN-ES-FR-IT-NL [146] DE-EN [505] DA-DE-EL-EN-ES-FI-FR-IT-NL-NO-SV

LIQUI MOLY

FOR THE BEST EXPERIENCE ON WATER.





ACCESSORIES

EVERYTHING FOR THE APPLICATION. FROM ONE SINGLE SOURCE: OUR ACCESSORIES.

To ensure that you can make the best possible use of our high-quality products, we also provide you with the perfect accessories. Benefit from our tailor-made practical solutions for all aspects of your boat service – whether in the shipyard or for private use.

		Area of use	Cont.	Packaging Unit	Part no.
	**Oil Cabinet** **For 20 l and 60 l container from LIQUI MOLY** consisting of 8 × 20 l canister + 2 × 60 l drum or 12 × 20 l canister (as desired) • 3 shelves • dimensions: 2,100 x 950 x 550 mm (H × W × D) • weight: 118 kg • color: Body RAL 7016, doors 9006	Oil cabinet with clearly arranged and clean storage of oil specialties with integral drip pan (lockable).	1 pc	1	**29011** [146]
	**Gear oil cabinet** **For 20 l and 1 l container from LIQUI MOLY** consisting of 3 × 20 l canister and 3 × 6-pack units of the 1 l gear oil bottles (as desired) • dimensions: 950 x 630 x 550 mm (H × W × D) • weight: 52 kg • color: Body RAL 7016, doors 9006	Oil cabinet with clearly arranged and clean storage of gear oils with integral drip pan.	1 pc	1	**29035** [146]
	**Sticker oil cabinet Marine** Sticker for oil cabinet (part no. 7993 or 29035).		1 pc	1	**53453** [152]
	**Oil Drip Pan** For 2 drums up to 205 l • TÜV type-tested • dimensions: 1,200 x 800 x 360 mm (L × W × H) • weight: 76 kg	For environmentally friendly storage of drums.	1 pc	1	**7812** [152]
	**Hand Pump** • plastic pump incl. universal hose and adapter • adapter for metric thread and imperial screw joints • for all 1 l containers from LIQUI MOLY • for 0.5 l and 5 l containers from LIQUI MOLY with SK 38 thread	For filling transmissions and other units such as outboard motors, lawnmowers, emergency power units, riding mowers, snow blowers or motorcycle transmissions.	1 pc	1	**29026** [152]
	**Oil Change Canister** • capacity 10 l • separate venting screw • suitable for passenger cars and motorcycles • including sieve • dimensions: 57 x 32 x 13 cm (L × W × H)	For environmentally friendly do-it-yourself oil change without lifting platform.	1 pc	4	**7055** [152]
	**Grease Gun for Cartridges** Hand-Lever Grease Gun for grease dosing from 400 g grease cartridges.	Device for grease application in the workshop and industry.	1 pc	1	**5310** [152]
	**Reinforced hose with gripper coupling** Suitable for the Hand-Lever Grease Gun (part no. 5310). • 300 mm long • Ø 13 mm, especially flexible • 4-jaw professional hydraulic coupler • 1,600 bar burst pressure – high working safety • 2-layer hose with markings • safety tested in compliance with DIN 1283 • fast accessory changing – no unscrewing necessary	For flexible grease dosing using manually-operated lever grease guns in workshops and industry.	1 pc	1	**5311** [152]



ADVERTISING MATERIAL & SALES PROMOTION

FLY THE FLAG WITH LIQUI MOLY: OUR ADVERTISING MATERIAL.

LIQUI MOLY is a popular, in-demand brand worldwide. Take advantage of our popularity as a crowd puller for your company and secure additional sales opportunities. You can request any advertising material shown here from the Export Area Manager responsible for your company. It can be made quickly available as a rule. We also offer individual external signage tailored to your company and your existing appearance.



Topper Futura-Plastic-Rack Marine, Part No. 5876

Futura-Plastic-Rack, empty (60 × 160 × 40 cm), Part No. 9989

Side sections for Futura-Plastic-Rack (2 pieces), Part No. 50439



Counter Display LIQUI MOLY, empty, Part No. 9965

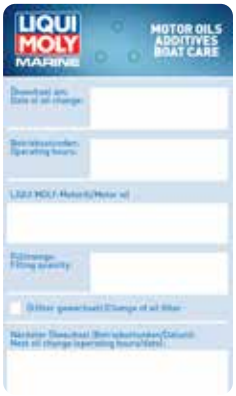
Topper Counter Display Marine, Part No. 50404

Aufkleber Logo

53 × 35 mm	Part No. 53477
74 × 49 mm	Part No. 53478
131 × 87 mm	Part No. 53479
316 × 210 mm	Part No. 53480
475 × 316 mm	Part No. 53481
674 × 448 mm	Part No. 53482



Advertising Board Marine, (500 × 500 mm), Part No. 50380



Oil Change Tag Marine, Part No. 50460

Beach flag Logo, (300 cm), Part No. 50225





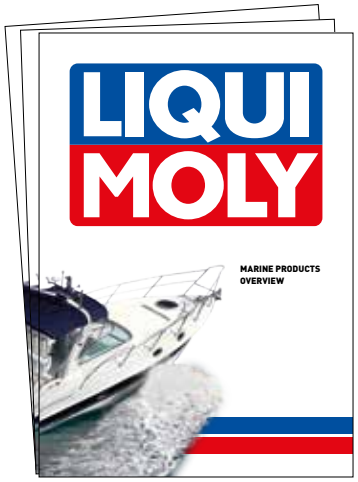
Beach flag base, Part No. 50229

Flag Marine, (150 × 360 cm), Part No. 51989





Banner Logo, (400 × 100 cm), Part No. 51992



Catalog Marine, Part No. 52055



Key chain canister, Part No. 50202

ALL YOU SHOULD KNOW ABOUT LUBRICANTS:

LUBRICANT GLOSSARY

Boat motors and water – not always an ideal combination. Increased air humidity and a saline environment promote corrosion and the formation of rust, even inside the motor. Another problem: Seasonally irregular use means longer idle times. When the units are then used, this usually takes place with a constant medium load and high rotational speed. The service life primarily depends upon the base oil used, the additive package and the viscosity of the motor oil. With LIQUI MOLY products you can contribute to keeping motor wear to a minimum.

ADVANTAGES OF SYNTHETIC ENGINE OILS:

- Easier starting, better flow properties at low temperatures
- Superior wear protection behavior
- Greater stability at high temperatures
- Lower fuel consumption
- Lower oil consumption
- Less mulfunctions

WHAT DO THE INDIVIDUAL FIGURES ON OIL CONTAINERS MEAN?

Viscosity is the best known variable according to which lubricating oils are classified. It expresses the degree of internal friction of an oil as it flows. When an oil is cold, its internal friction is high (high viscosity). The warmer the oil becomes, the lower its internal friction (low viscosity). The change in viscosity along with the change in temperature may vary from one grade of oil to the next; this is denoted by the viscosity index (VI), a non-dimensional numerical value. The higher the VI, the lower the change in viscosity as the temperature rises. As a rule, mineral oils have a VI of 90 – 100, hydrocrack oils a VI of 120 – 140, and synthetic oils a VI of 140 – 160.

SAE CATEGORIES

Engine and transmission oils are described by means of SAE categories (SAE = Society of Automotive Engineers), which are used as a form of viscosity designation. Two series of designations are used. The letter "W" stands for Winter. Figures such as 0W, 5W, 10W, 15W, 20W, and 25W for engine oils, and 70W, 75W, 80W, and 85W for transmission oils describe a specified flow behavior based on the maximum low-temperature viscosity, the maximum limit point temperature, and the minimum viscosity at 100 °C. The second figure after the "W", such as 20, 30, 40, 50, 60 for engine oils, and 80, 85, 90, 140 for transmission oils denotes the viscosity of engine and transmission oils at a temperature of 100 °C. As these temperatures do not adequately reflect the conditions in which engine oils are used, the high temperature viscosity HTHS, (high temperature high shear) at 150 °C at high shear and high engine speed is calculated. The purpose of determining the limit values of HTHS is that multide oils with VI improvers likewise assure the necessary degree of lubricating reliability at high oil temperatures and high engine speeds.

PERFORMANCE CATEGORIES

There are numerous test specifications and testing methods for determining the performance of engine oils in realistic test runs. Various engines are used for test purposes. The US classifications of the API (American Petroleum Institute), the European specifications of the ACEA committee (Association des Constructeurs Européens d'Automobiles) and the specifications of the individual engine manufacturers are in common use worldwide. The NMMA (National Marine Manufacturers Association) also plays an important role in the marine sector.

ACEA

The ACEA specifications describe the minimum requirements for present-day, ultramodern engine oils for motor vehicles; these are the toughest in the world. The ACEA committee comprises European vehicle manufacturers, the European Association of Lubricant Manufacturers, additive manufacturers and test developers.

ENGINE OILS ARE DIVIDED INTO FOUR PERFORMANCE CATEGORIES IN THIS CASE:

ACEA A = for spark-ignition or gasoline engines
ACEA B = for diesel engines in passenger cars and light commercial vehicles
ACEA C = Gasoline Engines and Diesel Engines with exhaust gas aftertreatment system (three-way catalysts or diesel particulate filters)
ACEA E = for diesel engines in heavy commercial vehicles

The letters "A", "B", "C" or "E" are then followed by a digit, e.g. 1, 2, 3, 4, 5, 6, 7, 9, which serves as an indication of the oil's performance. It is not necessarily the case that the higher the digit, the higher the quality. In addition, the digit indicating the performance level for the oil industry is followed by the year of introduction and possibly by the issue reference.

API

The "American Petroleum Institute" divides engine oils into two performance categories: the classification for gasoline or spark-ignition engines denoted by the letter "S" (Service), and the classification for diesel engines denoted by the letter "C" (Commercial). A further letter, from an ascending alphabetical sequence, is then appended to the initial "S" or "C" to indicate the performance level. The highest classification
currently in use for spark-ignition engines is API SP. In the case of diesel engines, API CK-4 represents the highest performance level.

THE CURRENTLY VALID PERFORMANCE CATEGORIES:

API SP, SN, SN PLUS, SM, SL, SJ,
API CK-4, CJ-4, CI-4, CH-4

API-SERVICE CATEGORIES

American Petroleum Institute www.api.org/eolcs

Gasoline engines	
Category **S***	For engines from/to
SP	2020 >
SN [3]	> 2020 >
SM	> 2010
SL	> 2004
SJ	> 2001

Diesel engines [5]	
Category **C***	Introduced
CK-4	2017 >
CJ-4	2010 >
CI-4 [1]	2002 [4] >
CH-4	1998 >

Category **F***	For engines from
FA-4 [2]	2017

1) with CI-4 Plus
2) not interchangeable or backward compatible with CK-/CJ-/CI-/CH-4 (at C Categories Sulfur-Content in Fuel observe)
3) possible with **SN PLUS** (for LSPI-engines) and **RC** (Recource Conserving)
4) 2002 introduced to meet the 2004 emission standards
5) Observe the specifications for the sulfur content in the fuel

***Higher categories include lower categories!**

Categories SA:::SH and CD:::CG-4 obsolete

Source: *trans aktuell* SPEZIAL 29 / DEKRA BETRIEBSSTOFF-LISTE 2023

NMMA

(National Marine Manufacturers Association)

The NMMA (National Marine Manufacturer Association) describe special test procedures in the marine sector for 2- and 4-stroke gasoline engines.

4-stroke gasoline engines

NMMA FC-W
FC-W lubricants meet the necessary performance and quality requirements for today's high-performance 4-stroke marine engines.

NMMA FC-W Catalyst Compatible
The new catalyst compatible specification includes the previous NMMA FC-W and can therefore be used in a backward compatible manner.

2-stroke gasoline engines

NMMA TC-W3
The TC-W3 standard is a special specification for 2-stroke marine engines. The requirements of the test sequence include various tests on the properties of the oil, such as flow behavior, miscibility, corrosion protection, etc., as well as various engine tests to prevent the formation of deposits or coking of the piston rings.

LIQUI MOLY GmbH
Jerg-Wieland-Straße 4
89081 Ulm
GERMANY

Phone: +49 731 1420-0
Fax: +49 731 1420-75
E-Mail: info@liqui-moly.com
www.liqui-moly.com

Technical support:
Phone: +49 731 1420-871
E-Mail: support@liqui-moly.com

No liability for misprints.
Subject to technical modifications.

Specifications, approvals and recommendations correspond to the status at the time of going to press.

facebook.com/liquimoly

instagram.com/liquimoly

LIQUIMOLYwebTV

Free of charge!
The LIQUI MOLY app:

liqui-moly.to/AppStore

liqui-moly.to/PlayStore

520552510

