

80 YEARS PERFORMANCE BY
RAVENOL®

PRODUCT CATALOGUE



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10 GOOD REASONS TO CHOOSE RAVENOL



1 History and independence

RAVENOL has been an independent lubricant manufacturer since 1946 and can therefore decide for itself which ingredients to use.

2 Portfolio

RAVENOL offers a wide range of lubricants and operating fluids for every vehicle. RAVENOL was the first company in the world to receive a license from the American Petroleum Institute (API) for the viscosity SAE 0W-16.

3 Our plant

RAVENOL products are 100% MADE IN GERMANY and have the same quality worldwide. Both plants (Werther and Lubmin) are equipped with state-of-the-art laboratories where all incoming raw materials and finished products are tested for quality.

4 Highly specialised

Our specialization in automotive lubricants ensures high competitiveness and outstanding quality, proven in motorsport.

5 Low environmental impact and environmentally friendly Products

Environmental protection is a central task in our corporate principles, proven by the DIN EN ISO 14001:2015 certificate.

6 A quality product: PAO-based lubricants

Thanks to superior PAO technology, our lubricants are outstanding in many areas such as friction, cleaning and evaporation.

7 Sustainability

The "Fokus Zukunft" label ensures proper and legally valid handling of emissions offsetting. This enables us to transparently demonstrate our corporate strategy for avoiding and offsetting CO₂ emissions to international customers. RAVENOL has fulfilled the strict requirements of "Fokus Zukunft" for the products listed here.

8 Motorsport

RAVENOL is a technical partner in over 100 racing series and motorsport teams both nationally and internationally. RAVENOL provides technical support for the OEMs' motorsport commitments:

1. Development and use of lubricants for performance applications and customer sport with Mercedes-AMG Motorsport
2. Development project with BMW Motorrad
3. Equipping the vehicle delivery (starter kit) with RAVENOL engine & transmission oils: BMW M4 GT4, BMW M2 Racing GR Supra GT4
4. Development of the joint lubricants with Ralf Schumacher

9 Forgery-proof, innovative packaging

Our packaging is optimized for ease of use for our customers and is forgery-proof thanks to various security features.

10 Strong marketing

Collaborations with Ralf & David Schumacher, Maro Engel, Lucas Auer and others, as well as our presence at all major trade fairs and our unique merchandise products provide extensive opportunities to present the RAVENOL brand.



A Westphalian success story

Over 80 years ago in Werther, East Westphalia, the foundations were laid for what would later become one of the most innovative companies in the field of lubricant production. Ravensberger Schmierstoffvertrieb GmbH with its RAVENOL brand is a producer of high-quality premium lubricants for a wide range of applications on land and at sea.

Over the decades, the RAVENOL brand has seen continuous development and transformed into a global player. In more than 100 countries worldwide, car drivers and companies in the automotive, mechanical engineering, steel and construction industries all benefit from RAVENOL's high-quality products, as do companies in the mining industry, the transportation sector and the farming sector. The extensive product portfolio now includes engine oils for passenger cars and trucks, racing oils, gear oils for automatic and manual gearboxes and drive axles, agricultural machinery oils, hydraulic oils, industrial oils, special products, greases, high-performance lubricants, vehicle maintenance products, cleaners, winter chemicals and coolants.

Outstanding products thanks to knowledge transfer

In line with its international focus, RAVENOL participates in all the significant international trade fairs in the automotive and motorcycle

sector, such as Automechanika in Frankfurt or the SAS in Switzerland.

In order to meet our own standards and the standards of the market, we work in close collaboration with vehicle manufacturers (OEM) during the product development process as well as various companies from the engineering industry. Numerous approvals from leading OEMs such as Mercedes-Benz, BMW, VW or Porsche are testament to the fact that we fulfil the most stringent requirements of the automotive industry.

As a pioneer in a wide variety of fields, innovative developments generally play a fundamental role for us. Various technologies such as USVO® or CleanSynto® technology are forerunners in their fields. For example, RAVENOL EFE OW-16 was the very first engine oil in the world to receive a licenced approval from the API (American Petroleum Institute). The oil offers clear fuel savings and reduced pollutant emissions.

Even after 78 years, the company has lost none of its family charm. Always endeavouring to offer the customer the best possible product and outstanding service, RAVENOL has never lost its sense of responsibility towards its employees. This is the only way to continue to achieve what has made us so successful over the past 78 years.

Simply the best technology, 100% 'Made in Germany'

Worldwide

Ravensberger Schmierstoffvertrieb GmbH is now a global player. RAVENOL products are premium "Made in Germany" products. They offer the highest level of product reliability and the best service from Germany.

RAVENOL "Made in Germany" products are renowned around the world as premium lubricants of the highest quality. Partners of Ravensberger Schmierstoffvertrieb GmbH value the strong product reliability and service from Germany. RAVENOL is now present in over 90 countries.

Our partners are located in places including the USA, Austria, Libya, the Netherlands, Italy, Luxembourg, Switzerland, Denmark, Spain, Poland, Greece, Macedonia, Korea, China, Taiwan, Malaysia, United Arab Emirates, South Africa, Egypt, Croatia, Lithuania, Estonia, Ukraine, Moldova, Paraguay, Namibia, Serbia, Malta, Finland, Czech Republic, Romania, Slovenia, Turkmenistan, Hong Kong, Singapore, Slovakia, Iceland,

Japan, Montenegro, Belgium, Lebanon, Bulgaria, Kyrgyzstan and Kazakhstan.

RAVENOL has an international focus, and accordingly is represented at all the important trade fairs for the automotive supply sector. Ravensberger Schmierstoffvertrieb GmbH's technical competence is expressed in its global commitment to motorsport. We work on partnerships with top international teams and popular racing series alongside our global sales activities, encouraging our demanding customers to place their trust in our high-performance products.

RAVENOL – from yesterday to today

1946	1954	1964	1974	1977	1985	1993	2003	2004	2005	2011	2012	2018	2024	2026
Ravensberger Oel- u. Fettgesellschaft Habisch und Triebel was founded in Werther, producing single grade oils and greases and technical cleaning products.	Registration of the RAVENOL brand name. Broadening of the product range to include industrial oils and coolants.	Introduction of multigrade oils. Expansion of the product range to include care products for cars and motorcycles.	New construction and extension of the company buildings for the purpose of modernisation and enlargement of the production area.	New construction of a warehouse and office building followed by a second construction phase in 1985.	Range expansion to include semi synthetic and fully synthetic engine and gear oils. Expansion of the sales network and first brand relaunch.	International sales activities commence and intensify. Another modernisation of the production area.	Expansion and modernisation of the operating laboratory. Optimisation of production thanks to the six-position filling machine for engine oils.	Initial certification pursuant to DIN EN ISO 9001:2000. Start of global motorsport activities with racing lubricants. First company appearances at national and international trade fairs.	Intensification of worldwide business relationships. Laboratory accreditation pursuant to DIN EN/ IEC 17025:2005.	Modernisation of the offices and social areas. Certification pursuant to DIN ISO/ TS 16949:2009.	Comprehensive relaunch with modernised brand logo and new product packaging design as well as optimised containers for lubricants.	For the first time, RAVENOL will be a partner in the FIA Formula 1 World Championship.	RAVENOL is the official lubricant and title partner of the ADAC 24h Nürburgring	80 Years of RAVENOL



Quality assurance

For us, “Made in Germany” is more than just a phrase or a simple advertising message. We live by the philosophy behind this quality statement and we have set ourselves challenging goals and requirements for the quality and performance of our products.

Our internationally recognised quality management and the cooperation with a wide variety of renowned manufacturers and suppliers from the automotive industry guarantee the outstanding and consistent quality of the RAVENOL products. Numerous approvals from leading OEM (Original Equipment Manufacturers) and the certification according to IATF 16949 underpin the fulfilment of the highest requirements set by the automotive industry. This also includes the DIN EN ISO 9001 certification, which affords particular significance to documentation as well as customer-oriented processes and supplier relationships.

In addition, as an employer we are always conscious of our responsibilities toward our employees and our environment. Having attained the DIN EN ISO 14001 certification, we fulfil the requirements for a secure working environment including the Promotion of health and performance, which also includes the goal of harmonious interaction with the environment. The competence of our testing laboratory is regularly verified, as is proven by our certification in line with DIN EN ISO/IEC 17025. Our consistently high-quality standards meet manufacturer requirements as well as the specifications of the automotive industry around the world. The international approvals granted by leading OEMs (Original Equipment Manufacturers) confirm the high quality standards of our products.

RAVENOL's OEM approvals:

We have approvals for our products from significant automotive manufacturers such as

- Mercedes Benz/Daimler Truck
- Chrysler
- VW
- BMW
- Porsche
- Ford
- Jaguar Land Rover
- MAN
- Volvo
- MTU
- Deutz
- ZF
- Cummins
- and many more.

Our high standard of quality claim is also confirmed by being listed by the API (American Petroleum Institute), NMMA (National Marine Manufacturers Association). For our racing kart oils we have FIA-CIK approvals.

Our range

Passenger Car and Commercial Vehicle engine oils, two-stroke engine oils, rallye/racing oils, transmission fluids for automatic gearboxes, gear oils for manual gearboxes and drive axles, agricultural oils, hydraulic oils, industrial oils, brake fluids, lubricants, car care, cleaners, fuel additives, winter chemicals and coolants. We have supplemented our range with special products for the automotive sector. For fans of vintage cars, we have a variety of classic engine oils.

Not only will you find our products in the product overview, here in the catalogue or on the internet, but also in the TecDoc catalogue at specialist retailers. RAVENOL has a strong presence in the DEKRA list, which is recomplied each year.

You have the opportunity to easily and quickly find the right RAVENOL product for your needs at any time.

Don't miss out on any more news about RAVENOL products & events! Simply subscribe to our newsletter at www.ravenol.de.





Better engine protection



Improved performance



Optimal engine cleanliness



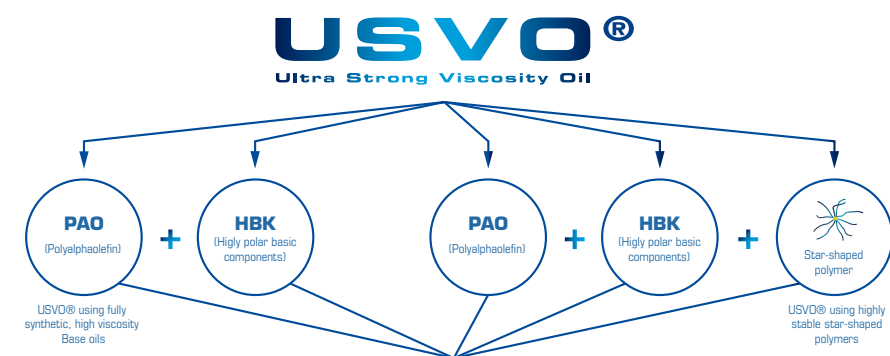
Extended oil change intervals

USVO®

We have set ourselves the task of mastering the challenges of the lubricants of the future using technology. This work has culminated in the development of USVO® technology.

What is USVO® technology?

The requirements of lubricants for modern vehicles continue to increase. Unwelcome viscosity changes can quickly cause serious problems. In order to combat this, we have developed our USVO® lubricant technology, meaning that we can ensure high viscosity stability at both low and high temperatures. USVO® stands for Ultra Strong Viscosity Oil. Only high-quality, fully synthetic base oils and additives are used in this process.



A comparison of oils with high operating properties to oils from traditional technologies

THANKS TO THE OPTIMAL COMBINATION OF COMPONENTS, WE HAVE CREATED FORMULATIONS WITH THE FOLLOWING BENEFITS:

• EXCELLENT HIGH TEMPERATURE VISCOSITY (HTHS AT 150 °C)

barely any shearing loss during operation, which means that the lubricant film is permanently maintained during operation.

• EXCELLENT PERFORMANCE AT LOW TEMPERATURES (CCS at -30 °C)

The lubricant is always able to flow so that direct engine lubrication is guaranteed even for cold starts.

• VERY GOOD OXIDATION STABILITY

Oxidation-stable lubricants have increased resistance against reacting with oxygen and temperatures. This increases the lubricant service life, which permanently prevents



deposits (sludge) and maintains the lubrication properties.

• VERY LOW EVAPORATION LOSSES

Only a few components of the oil evaporate at high operating temperatures. As a result, the engine oil level drops only slightly and the environment is not additionally polluted by exhaust gases.

• HIGH VISCOSITY INDEX

a high viscosity index illustrates a weak temperature-dependent viscosity change compared to a low viscosity index.

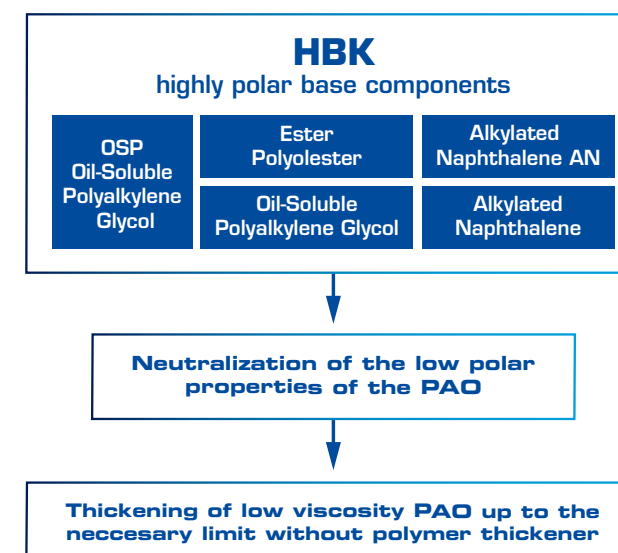
• VERY LOW POUR POINT

The pour point is the lowest temperature above which an oil is liquid. As a result, lubrication is guaranteed, even at the lowest temperatures.

The interaction of the properties ensures that a thick protective film is formed during vehicle operation, which remains stable even under high thermal and mechanical stresses.

USVO® WHEN USING FULLY SYNTHETIC, HIGH VISCOSITY BASE OILS

Thanks to the special combination (formulation) of the high-quality fully synthetic base oils and selected special additives (without the use of polymer thickeners), an extensive process sequence can be used to manufacture outstanding oils with excellent performance thanks to their various lubrication properties.



USVO® WHEN USING HIGHLY STABLE STAR-SHAPED POLYMERS

The SAE grades can not always be achieved for all viscosity grades using their base components alone. Procurement and storage are very costly and cannot always be used for economic reasons. RAVENOL therefore uses special star-shaped polymers.

The star-shaped structure of the stable molecular connections creates high shear stability. As a result, the viscosity remains stable across a broad operating spectrum. In addition, a significant lower quantity of the star-shaped polymers is required compared to the standard OCPs (olefin copolymers).

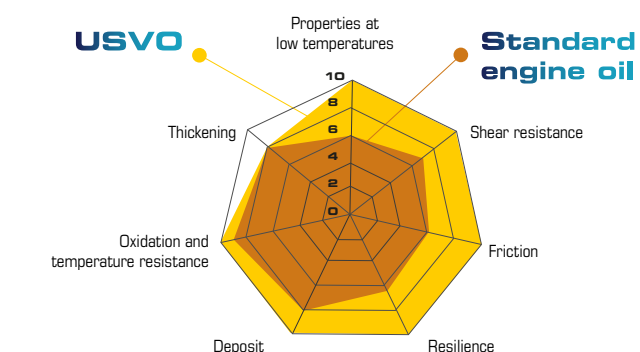
As a general rule: The fewer polymers are present, the fewer disadvantages are caused as a result of their use. Incorrect dosage can cause the following problems:

- increased contamination of the engine
- the formation of paint deposits and films

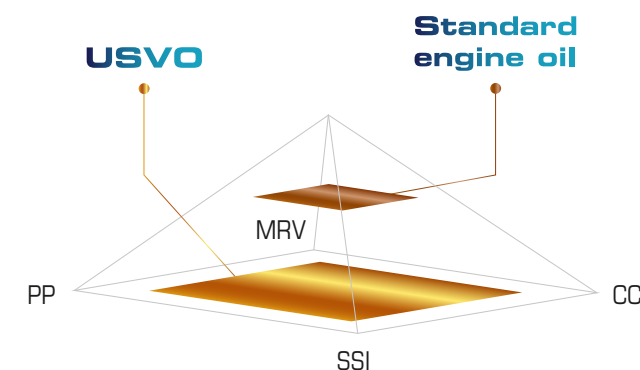
Our USVO® quality takes these special features into account and actively counteracts the disadvantages during use.

PROPERTIES OF THE RAVENOL-USVO® QUALITIES

Thanks to their technical properties, our USVO® lubricants optimise engine performance and noticeably reduce fuel consumption at the same time. This is good for the environment, as these savings entail lower exhaust gas emissions.



**10 = Excellent properties
7 = Satisfying
5 = Insufficient**



CCS = Low temperature viscosity
PP = Temperature of loss of fluidity
MRV = Low temperature viscosity when pumping through
SSI = Mechanical shear stability

CleanSynto® SPECIAL FORMULA



CleanSynto®

Tried-and-tested formulations fulfil today's minimum requirements for standard lubricants. The technical properties are usually adjusted in such a way that vehicle operation is guaranteed and the manufacturer requirements are covered. If we look at the service life of vehicles described in the following section, we can derive additional user requirements from this.

The requirements vary according to the area of application. In the process, the use of specific additives can influence the lubrication in many different ways.

Vehicle manufacturers help themselves by recommending special maintenance intervals for wearing parts (e.g. for changing the timing belt, spark plugs/glow plugs, engine oil, etc.). Thus, it would appear that consumers are extensively informed and educated.

If damage to the engine or other costly vehicle components occurs prematurely, the consumer is on his own and has to accept expensive repairs.

During vehicle operation, friction occurs between the moving engine parts, resulting in wear particles. These tend to deposit in combination with combustion residues and other soiling. These soot and dirt particles lead to blockages to the filter, oil passages (hoses and nozzles) and the pumps. This results in the engine becoming dirty. Efficiency decreases and the danger of engine failure increases.

As a result, we have chosen to devote ourselves to preventative maintenance and use our expertise to formulate special lubricants. This means that we have successfully developed our standard formulations. The result is CleanSynto® quality, which supports the trend for extended oil change intervals and fulfils constantly increasing engine hygiene requirements.

Standard formulations offer reduced protection and a shorter service life for engines



FOR OUR FORMULATIONS, WE USE:



SYNTHETIC BASE OILS
AND COMPONENTS



PREMIUM ADDITIVES FOR ADJUSTING
THE CLEANSYNTO® QUALITY



IMPROVED ENGINE CLEANLINESS,
MAXIMISED SERVICE LIFE, IMPROVED
DISPERSABILITY ABSORBS DIRT DEPOSITS

CleanSynto® quality reduces deposits of soot and dirt particles, meaning that oil reaches the most important lubrication points unhindered. As a result, your engine will stay cleaner for longer. The efficiency of the engine simultaneously increases, reducing the risk of engine failure.

IN SUMMARY, THERE ARE SO MANY BENEFITS FROM USING OUR CLEANSYNTO® LUBRICANTS:

 **Fuel and cost savings**

 **Protecting the environment by reducing emissions**

 **Avoiding premature vehicle breakdown**

 **Optimal operating behaviour from the lubricants**

 **Optimal engine and transmission hygiene**

BIODIESEL

Biodiesel

Biodiesel can lead to:

Thickening. Biodiesel is a unsaturated fuel and can cause the engine oil to thicken over time. This thickening can reduce the oil's ability to flow smoothly through the engine, leading to increased friction and wear on engine components.

Fuel Dilution. Biodiesel has different properties than conventional diesel fuel, and if it leaks into the engine oil, it can dilute the oil and reduce its effectiveness in lubricating and protecting engine components.

Degradation. Biodiesel can accelerate the degradation of engine oil by promoting oxidation and the formation of sludge and deposits. This can reduce the oil's ability to lubricate and protect the engine, leading to increased engine wear and potential damage.

Compatibility Issues. Biodiesel may not be compatible with certain engine oil formulations or additives, leading to chemical reactions that can degrade the oil and compromise engine performance.

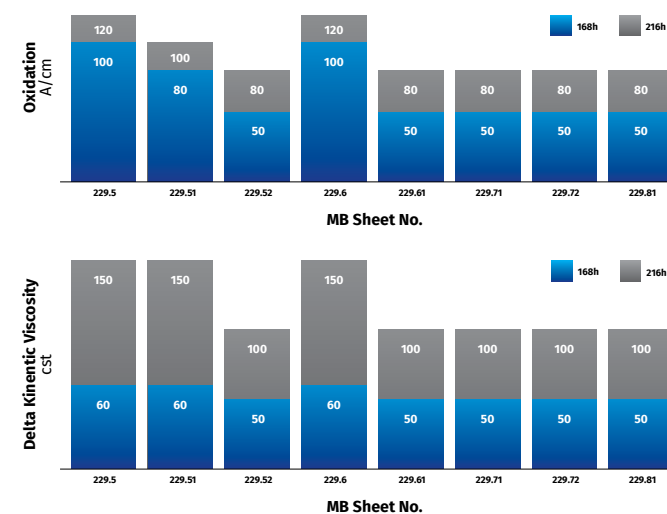
Filter Clogging. Biodiesel can increase the likelihood of filter clogging in the engine oil system due to its different chemical composition and potential for forming deposits.

To address the issues that could arise from the usage of biodiesel, the additional tests have been introduced by many organizations e.g ACEA and equipment manufacturer e.g Mercedes. One of the most known test is CEC L-109-12*. The CEC L-109 test is a lab-scale oxidation method that ages oil dosed with biodiesel fuel under carefully controlled conditions in laboratory glassware. Fresh diesel engine oil is treated with biodiesel in the presence of an iron catalyst used to accelerate the rate of reaction. The sample is heated to 150°C and aerated under controlled conditions for 216 hours. The samples are taken at 72, 144, 168, and 216 hours. The test duration could be 168 and 216 hours depends on the requirements, and it will indicate the end of test (EOT) duration. The viscosity increases are measured by

comparing Kinematic Viscosity at 100°C for the intermediate and EOT samples to the starting oil/ fuel start of test (SOT) mixture. Oxidation is measured with help of infrared spectroscopy technique for the same sample pairs. On the diagrams the limits for the viscosity increase and oxidation for different Mercedes specification are shown.

Here we see the supreme oxidation performance and cleanliness of our product in presence of biodiesel. The oxidation and thickening at 168h check point are 2,8 times and 2,9 times respectively away from the limit. More severe check at the 216h shown similar picture. The oxidation and thickening at 216h (EOT) check point are 2,3 times and 3,8 times respectively away from the limit. The products that was developed to deal with malicious effect of the biodiesel are listed below with corresponding approvals by Mercedes.

*CEC L-109-12 Oxidation Test – with Fuel Dilution 7% B100@150°C (FAME fr.OM646 Biodiesel Test)



RAVENOL SMP SAE 5W-30

MB-Approval 229.51

Parameters	Unit	Maximum	Result
Oxidation 168h	A/cm	80	28,66
Oxidation 216h	A/cm	100	34,63
Delta Kinematic Viscosity 168h	%	60	26,1
Delta Kinematic Viscosity 216h	%	150	39,8

Trucks

Product	Approval
RAVENOL Turbo Plus SHPD SAE 15W-40	DTFR 15B110 (228.3)
RAVENOL EURO IV Truck SAE 10W-40	DTFR 15C110 (228.51)
RAVENOL EURO VI Truck SAE 10W-40	DTFR 15C110 (228.51)
RAVENOL UDT Ultra Duty Truck SAE 10W-30	DTFR 15C110 (228.51)
Ravenol SDT Super Duty Truck SAE 10W-40	DTFR 15C110 (228.51)
RAVENOL Ultra Synthetic Truck SAE 5W-30	DTFR 15C100 (228.31) DTFR 15C110 (228.51)
RAVENOL EDT Extra Duty Truck SAE 5W-30	DTFR 15C110 (228.51) DTFR 15C120 (228.52)
RAVENOL Performance Truck SAE 10W-40	DTFR 15B120 (228.5)

Cars

Product	Approval
RAVENOL EHS SAE 0W-20	MB-Approval 229.71, 229.72
RAVENOL FES SAE 0W-30	MB-Approval 227.61, 229.61
RAVENOL SSV SAE 0W-30	MB-Approval 229.6
RAVENOL HSW SAE 0W-30	MB-Approval 229.51 MB-Approval 229.52
RAVENOL HLS SAE 5W-30	MB-Approval 229.51 MB-Approval 229.52
RAVENOL REP SAE 5W-30	MB-Approval 226.5, 229.51, 229.52
Ravenol VMO SAE 5W-40	MB-Approval 229.31, 229.51

TecDoc is the leading provider of electronic vehicle parts information for the European market and offers quick and uncomplicated access to all data concerning the parts and consumer materials in this segment.

As a data supplier, RAVENOL is integrated into the information system run by TecDoc and the key data for RAVENOL products are linked, including descriptions from around 98% of the European vehicle inventory.

This offers the user a unique service for the purpose of identifying the individually required lubricant.

The data is updated regularly and is available to dealers and workshops as an electronic parts catalogue on DVD or as a daily updated web catalogue on the Internet. The information is provided in 28 languages, meaning that 950,000 users currently use TecDoc each quarter.



Bag in Box

With the Bag in Box system, RAVENOL offers a sustainable container system for 20 litre containers, optimised for simple use. In combination with the special shelf system, it allows for clean and neat storage, in addition to convenient, simple product filling.

The RAVENOL BAG IN BOX system consists of a robust outer packaging box and a plastic pouch with an integrated outlet tap. This container system guarantees both the safe transportation of our high-quality lubricants and space-saving, sustainable disposal of the container components. After the pouch has been emptied, it can simply be removed from the outer packaging box. The system saves up to 80%

of empty container space compared with plastic containers of the same capacity. The space-saving shelf offers a storage capacity of 2 x 5 BAG IN BOX containers and is equipped with a drip tray that can be removed for the disposal of residues and for cleaning. The outlet taps of the containers are stored in a grooved rail, which guarantees simple and clean filling for the product.

80% less plastic waste



Packaging feature – the canister

The spout features a **reclosable screw closure**.

The **special opening** prevents the formation of air bubbles. The lubricant can therefore simply, cleanly and efficiently be poured.

Small, integrated **handles** to easily pull out the spout and to screw the canister on and off.

A **removable spout** is included in the closure to pour the lubricant out with greater precision. Simple to pull out using the handle.

The **safety closure** offers certainty that the lubricant is new and undamaged.

A **large, ergonomic grip** offers good hold for any hand size.

Different container colours for simple differentiation of the different varieties:
Gold = fully synthetic
Silver = semi synthetic
Yellow = mineral
Blue = marine lubricant

Thanks to the **transparent side strips** the current fill level is visible.

Embossed litre indications make it easier to precisely read the fill level.

Attractive, **structured grip surfaces** Simplify the handling of the canister – even with greasy hands.

The dynamic structures give the container a **high-quality and sporty look**.

Secure handling through additional **recessed grip** in the container base. Simple and efficient pouring of the lubricant.

Made in Germany stamp: Quality feature for product safety.

Packaging feature – the label

Security against forgery: Under UV light, it is possible to see the printed "RAVENOL-GERMANY-ORIGINAL".

Label on the reverse: multilingual peelable label.

Label background in the respective container size for simple **differentiation of varieties**. The **carbon look** shows the consumer the sporty origin of the product.

Easy-to-read product descriptions

Colours for each variety for simple differentiation:
Gold = fully synthetic
Silver = semi synthetic
Yellow = mineral
Blue = marine lubricant

Made in Germany: Production in Germany – a strong quality feature.

The **large RAVENOL logo** makes the brand recognisable and shows the manufacturer of the internationally renowned lubricant brand.

Easy-to-read viscosity information

Additional quality feature

The **technical specifications and approvals** at a glance.

The significant **content information** is recognisable at first glance.

Details for the **disposal** of the container.

Area for **OEM approval logos**.

RAVENOL-Hologram for forgery protection.

RAVENOL in Motorsport

Expertise and passion for motorsport are our recipe for success

Since its return to motorsport in 2004, the brand has developed into one of the most popular lubricant names in the racing world. Building on numerous successes in national touring car series, "RAVENOL Motorsport" has been continuously expanded through strategic partnerships. Before long, RAVENOL established an outstanding international reputation in motorsport with its high-performance and reliable products.

Today, we are represented as a technical partner and provider of expertise in over 100 international racing series. Whether in automotive, motorcycle, or boat racing – our partners rely on the advanced lubricants and operating fluids from RAVENOL. Numerous engine and transmission manufacturers in the

motorsport engineering sector – such as Spiess Motorenbau, Drexler Automotive, and Samsonas Gearbox & Dampers – depend on products from the RAVENOL portfolio.

In 2016, Audi Sport announced its first technical collaboration with RAVENOL as part of the "Audi Sport TT Cup" one-make series. We are also an original equipment manufacturer and supplier for customer racing projects of renowned car manufacturers and were awarded the designation "Audi Sport Customer Racing Official Supplier" in 2017 for equipping the Audi RS 3 LMS TCR. Further partnerships with the motorsport divisions of OEMs followed. RAVENOL works with BMW M Customer Racing on the BMW M4 GT4 project and with TOYOTA GAZOO RACING Europe on the Supra GT4 and GT86. Since 2022, RAVENOL has been the "BMW Motorrad

Motorsport Official Supplier" and, since 2023, the "Mercedes-AMG Motorsport Official Supplier."

Close collaboration with the technical departments of our motorsport partners ensures the continuous qualitative development of our racing lubricants. This cooperation is a key factor in our success on the racetrack. The RAVENOL brand actively embraces the spirit of motorsport. The depth of this commitment was demonstrated in 2014 when a partnership was formed with Hockenheim-Ring GmbH. Since then, not only has the first corner after the start/finish line been officially named the "RAVENOL Corner," but the centrally located "RAVENOL House," with its approx. 13-meter-high RAVENOL can visible from afar, also highlights the brand's passion and strong connection to racing.

RAVENOL is also involved as a racetrack partner at one of the most historic and demanding circuits in the world – the Nürburgring. All major events during a race weekend are communicated from the RAVENOL Media Center, and our racing lubricants proudly carry the quality seal "Nürburgring tested." RAVENOL has also been a long-standing team partner in the FIA Formula 1 World Championship as well as in key racing series such as the DTM and the ADAC Nürburgring Endurance Series. Since 2024, RAVENOL has been the Official Lubricant Partner and Title Partner of the ADAC RAVENOL 24h Nürburgring.

The passion and technical expertise gained in and through motorsport significantly contribute to the outstanding quality of our 100% Made in Germany RAVENOL products.



RAVENOL



AMG
MOTORSPORT

Official Supplier

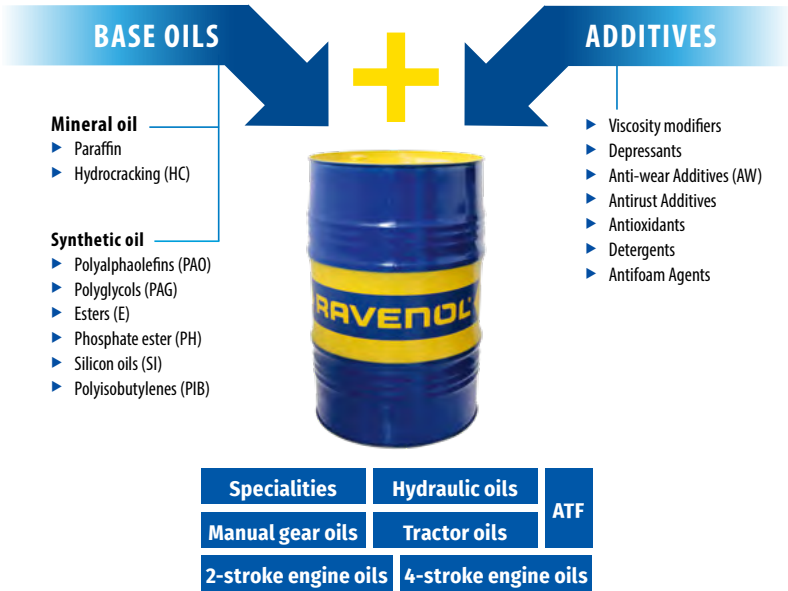


Standards, specifications & classes of RAVENOL lubricants

The suitability of a RAVENOL lubricant to provide a solution to a particular lubrication task must be clarified with the relevant machine manufacturers and plant manufacturers, as well as the technical lubricant services of mineral oil companies.

Lubricants are used for lubrication purposes and serve to reduce friction and wear and tear as well as for power transmission, cooling, vibration damping, sealing effect and corrosion protection. A distinction is made between liquid lubricants (lubricating oils), pasty lubricants (lubricating greases) and solid lubricants as well as gaseous lubricants (air).

Synthetic oils	Miscibility with mineral oils
Polyalphaolefins (PAO)	excellent
Polyglycols (PAG)	bad
Ester oils (E)	good
Phosphate esters (PH)	bad
Silicon oils (SI)	bad



ACEA specifications are guidelines for European cars

Three main factors specifically affecting the european market:

- Extended oil drain intervals
- Fuel savings
- Exhaust gas composition

The different uses of the oils are labelled by the European ACEA 2021 classification by letter:

- A/B for passenger car gasoline and light duty diesel engines
- C for passenger cars gasoline and light duty diesel engines with after treatment devices
- E for commercial vehicles with heavy duty diesel engines

ACEA A/B: Petrol and diesel engine oils – High “SAPS values”

A3/B4	Stable, stay-in-grade Engine Oil intended for use at extended Drain Intervals in Passenger Car & Light Duty Van Gasoline & DI Diesel Engines, but also suitable for applications described under A3/B3.
A5/B5	Stable, stay-in-grade Engine Oil intended for use at extended drain Intervals in Passenger Car & Light Duty Van Gasoline & Diesel Engines designed to be capable of using Low Viscosity Oils with HTHS Viscosity of 2.9 to 3.5 mPa*s. These Oils are unsuitable for use in certain Engines - consult vehicle-OEM's owner's manual/handbook in case of doubt.
A7/B7	Stable, stay-in-grade engine oil intended for use at extended oil drain intervals in passenger car and light-duty gasoline & DI diesel engines designed for low viscosity engine oils with HTHS viscosity of 2.9 to 3.5 mPa*s. Relative to A5/ B5 these engine oils provide also low speed pre-ignition- and wear protection for turbocharged gasoline DI engines as well as turbocharger compressor deposit (TCCD) protection for modern DI diesel engines. These engine oils are unsuitable for use in certain engines - consult vehicle-OEM's owner's manual/handbook in case of doubt.

ACEA C for Catalyst & GPF/DPF compatible Engine Oils for Gasoline & Diesel Engines – “Low SAPS”

- **Note:** These Oils will increase the DPF/GPF and TWC life and maintain the Vehicle's Fuel Economy.
- **Warning:** Some of these Categories may be unsuitable for use in certain Engine Types – consult the vehicle-OEM's owner's manual/handbook in case of doubt.

Viscosity classification of engine oils in accordance with SAE J300

The basis for this classification are the SAE viscosity grades of the Society of Automotive Engineers Inc. New York for engine oils and gear oils, in the version dated January 2015.

A basic distinction is made between summer oils and winter oils. Multi-grade oils (e.g. SAE 10W-40) fulfil the requirements of the cold-flow characteristics of a winter grade (SAE 10W) and have a kinematic viscosity at 100°C which corresponds to a SAE grade without additional letters (e.g. SAE 40 = summer).

The greater the difference between the minimum and maximum value of the SAE grade, the broader the temperature range in which the oil used can be deployed.

SAE grade	Cold Cranking (CCS)	Cold Pumping (MRV)	Kinematic viscosity, 100 °C		HTHS, 150 °C
	(cP @ T °C)	(cP @ T °C)	(cSt)	(cSt)	(cP)
	Maximum	Maximum	Minimum	Maximum	Maximum
0W	6.200 @ -35	60.000 @ -40	3,80	–	–
5W	6.600 @ -30	60.000 @ -35	3,80	–	–
10W	7.000 @ -25	60.000 @ -30	4,10	–	–
15W	7.000 @ -20	60.000 @ -25	5,60	–	–
20W	9.500 @ -15	60.000 @ -20	5,60	–	–
25W	13.000 @ -10	60.000 @ -15	9,30	–	–
8	–	–	4,00	< 6,1	1,70
12	–	–	5,00	< 7,1	2,00
16	–	–	6,10	< 8,2	2,30
20	–	–	6,90	< 9,3	2,60
30	–	–	9,30	< 12,5	2,90
40	–	–	12,50	< 16,3	3,50 (0W-40, 5W-40, 10W-40)
40	–	–	12,50	< 16,3	3,70 (15W-40, 20W-40, 25W-40,40)
50	–	–	16,30	< 21,9	3,70
60	–	–	21,90	< 26,1	3,70

1 mPa·s = 1cP; 1mm²/s =1 cSt

C2	Stable, stay-in-grade Engine Oil with Mid SAPS-Level, intended for use as catalyst compatible Oil at extended Drain Intervals in Vehicles with all Types of modern Aftertreatment Systems and High Performance Passenger Car & Light Duty Van Gasoline & DI Diesel Engines that are designed to be capable of using Low Viscosity Oils with a minimum HTHS Viscosity of 2.9 mPa*s.
C3	Stable, stay-in-grade Engine Oil with Mid SAPS-Level, intended for use as catalyst compatible Oil at extended Drain Intervals in Vehicles with all Types of modern Aftertreatment Systems and High Performance Passenger Car & Light Duty Van Gasoline & DI Diesel Engines that are designed to be capable of using Oils with a minimum HTHS Viscosity of 3.5 mPa*s.
C4	Stable, stay-in-grade Engine Oil with Low SAPS-Level, intended for use as catalyst compatible Oil at extended Drain Intervals in Vehicles with all Types of modern Aftertreatment Systems and High Performance Passenger Car & Light Duty Van Gasoline & DI Diesel Engines that are designed to be capable of using Oils with a minimum HTHS Viscosity of 3.5 mPa*s.
C5	Stable, stay-in-grade engine oil for improved fuel economy, with mid-SAPS Level, for aftertreatment system compatibility. Intended for use at extended oil drain intervals in passenger car and light-duty gasoline & DI diesel engines designed and OEM-approved for engine oils with HTHS viscosity of minimum 2.6 mPa·s.
C6	Stable, stay-in-grade engine oil for improved fuel economy, with mid-SAPS Level, for aftertreatment system compatibility. Intended for use at extended oil drain intervals in passenger car and light-duty gasoline & DI diesel engines designed and OEM-approved for engine oils with HTHS viscosity of minimum 2.6 mPa·s. Relative to C5 these engine oils provide also low speed pre-ignition- and wear protection for turbocharged gasoline DI engines as well as turbocharger compressor deposit (TCCD) protection for modern DI diesel engines.
C7	Stable, stay-in-grade engine oil for improved fuel economy, with mid-SAPS Level, for aftertreatment system compatibility. Intended for use at extended oil drain intervals in passenger car and light-duty gasoline & DI diesel engines designed and OEM-approved for engine oils with HTHS viscosity of minimum 2.3 mPa·s. C7 is based on C6 performance levels, with the exception of enhanced fuel economy.
Abbreviations: SAPS: Sulphate Ash, Phosphorus, Sulphur HTHS: High Temperature High Shear Viscosity DI: Direct Injector DPF: Diesel Particle Filter GPF: Gasoline Particle Filter TWC: Three Way Catalyst TCCD: Turbo Charger Compressor Deposit	

ACEA E for Heavy Duty Diesel engine oils

E4	Stable, stay-in-grade oil providing excellent control of piston cleanliness, wear, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under very severe conditions, e.g. significantly extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines without particulate filters, and for some EGR engines and some engines fitted with SCR NOx reduction systems. However, recommendations may differ between engine manufacturers so driver manuals and/or dealers shall be consulted if in doubt.
E6	Category is removed with ACEA 2022 Oil Sequences and replaced by ACEA E8!
E7	Stable, stay-in-grade oil providing effective control with respect to piston cleanliness and bore polishing. It further provides excellent wear control, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under severe conditions, e.g. extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines without particulate filters, and for most EGR engines and most engines fitted with SCR NOx reduction systems. However, recommendations may differ between engine manufacturers so driver manuals and/or dealers shall be consulted if in doubt.
E8	Stable, stay-in-grade oil providing excellent control of piston cleanliness, wear, soot handling and lubricant stability. It is recommended for highly-rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV, Euro V and Euro VI emission requirements and running under very severe conditions, eg significantly extended oil drain intervals according to the manufacturer's recommendations. It is suitable for EGR engines, with or without particulate filters, and for engines fitted with SCR NOx reduction systems. E8 quality is strongly recommended for engines fitted with particulate filters and is designed for use in combination with low-sulphur diesel fuel. However, recommendations may differ between engine manufacturers, so driver manuals and/or dealers must be consulted if in doubt.
E9	Category is removed with ACEA 2022 Oil Sequences and replaced by ACEA E11!
E11	Stable, stay-in-grade oil providing effective control with respect to piston cleanliness and bore polishing. It further provides excellent wear control, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV, Euro V and Euro VI emission requirements and running under severe conditions, e.g. extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines with or without particulate filters, and for most EGR engines and for most engines fitted with SCR NOx reduction systems. E11 is strongly recommended for engines fitted with particulate filters and is designed for use in combination with low-sulphur diesel fuel. However, recommendations may differ between engine manufacturers so driver manuals and/or dealers should be consulted if in doubt.
F01	Stable "STAY IN GRADE" oils with lowered HTHS (High-Temperature, High Shear) viscosity of ≥ 2.9 to ≤ 3.2 and high potential for reducing fuel consumption. Except for the lower HTHS viscosity, the requirements of the F01 category essentially correspond to the E11 category with regard to laboratory and engine tests.



API Classification have been made by AMERICAN PETROLEUM INSTITUTE API, ENGINE OIL LICENSING AND CERTIFICATION SYSTEM EOLCS

Engine Oil Guide

- 1. Performance Level:**
 Motor oils designed for cars, vans, and light trucks with gasoline engines fall under API's "S" (Service) categories. Motor oils designed for heavy duty trucks and vehicles with diesel engines fall under API's "C"(Commercial) categories. Please see the Gasoline Engines and Diesel Engines charts for descriptions of current and obsolete API service categories.
- 2. Viscosity Grade:**
 Measure of oil's thickness and ability to flow at certain temperatures. Vehicle requirements may vary. Follow your vehicle manufacturer's recommendations on SAE oil viscosity grade.
- 3. Resource Conserving:**
 "Resource Conserving" applies to oils intended for gasoline-engine cars, vans, and light trucks. Widespread use of "Resource Conserving" oils may result in an overall saving of fuel in the vehicle fleet as a whole. (Energy Conserving is obsolete since the end of 2016.)
- 4. Multiple Performance Levels**
 Oils designed for diesel engine service might also meet gasoline engine service. For these oils the designation is "C" category first followed by the "S" category. "C" category oils have been formulated primarily for diesel engines and may not provide all of the performance requirements consistent with vehicle manufacturers' recommendations for gasoline fueled engines.

Guide to SAE VISCOSITY GRADES of ENGINE OIL FOR PASSENGER CARS

Multigrade oils such as SAE 5W-30 and 10W-30 are widely used because, under all but extremely hot or cold conditions they are thin enough to flow at low temperatures and thick enough to perform satisfactorily at high temperatures. Note that vehicle requirements may vary.

If lowest expected out-door temperature is	Typical SAE Viscosity Grades for Passenger Cars			
0°C (32°F)	0W-16 0W-20	0W-30 5W-20	5W-30 10W-30	10W-40 20W-50
-18°C (0°F)	0W-16 0W-20	0W-30 5W-20	5W-30 10W-30	10W-40
Below -18°C (0°F)	0W-16 0W-20	0W-30 5W-20	5W-30	

Follow your vehicle manufacturer's recommendations on SAE oil viscosity grade.

The current and previous API Service Categories are listed below. Vehicle owners should refer to their owner's manuals before consulting these charts. Oils may have more than one performance level.

For automotive gasoline engines, the latest engine oil service category includes the performance properties of each earlier category. If an automotive owner's manual calls for an API SJ or SL oil, an API SM oil will provide full protection. For diesel engines, the latest category usually – but not always – includes the performance properties of each earlier category.



API S for GASOLINE ENGINES

SP	Current: Introduced in May 2020, designed to provide protection against low-speed pre-ignition (LSPI), timing chain wear protection, improved high temperature deposit protection for pistons and turbochargers, and more stringent sludge and varnish control. API SP with Resource Conserving matches ILSAC GF-6A by combining API SP performance with improved fuel economy, emission control system protection and protection of engines operating on ethanol-containing fuels up to E85.
SN	Current: For 2020 and older automotive engines.
SM	Current: For 2010 and older automotive engines.
SL	Current: For 2004 and older automotive engines.
SJ	Current: For 2001 and older automotive engines.
SH	Obsolete: For 1996 and older engines.
SG	Obsolete: Not suitable for use in most gasoline-powered automotive engines built after 1993. May not provide adequate protection against build-up of engine sludge, oxidation or wear.
SF	Obsolete: Not suitable for use in most gasoline-powered automotive engines built after 1988. May not provide adequate protection against build-up of engine sludge.
SE	Obsolete: CAUTION: Not suitable for use in gasoline-powered automotive engines built after 1979.
SD	Obsolete: CAUTION: Not suitable for use in gasoline-powered automotive engines built after 1971. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SC	Obsolete: CAUTION: Not suitable for use in gasoline-powered automotive engines built after 1967. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SB	Obsolete: CAUTION: Not suitable for use in gasoline-powered automotive engines built after 1951. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SA	Obsolete: CAUTION: Contains no additives. Not suitable for use in gasoline-powered automotive engines built after 1930. Use in more modern engines may cause unsatisfactory performance or equipment harm.

DIESEL ENGINES

API FA-4	Current: describes certain XW-30 oils specifically formulated for use in select high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway greenhouse gas (GHG) emission standards. These oils are formulated for use in on-highway applications with diesel fuel sulfur content up to 15 ppm. Refer to individual engine manufacturer recommendations regarding compatibility with API FA-4 oils. API FA-4 oils are blended to a high temperature high shear (HTHS) viscosity range of 2.9cP-3.2cP to assist in reducing GHG emissions. These oils are especially effective at sustaining emission control system durability where particulate filters and other advanced aftertreatment systems are used. API FA-4 oils are designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase. API FA-4 oils are not interchangeable or backward compatible with API CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, and CH-4 oils. Refer to engine manufacturer recommendations to determine if API FA-4 oils are suitable for use. API FA-4 oils are not recommended for use with fuels having greater than 15 ppm sulfur. For fuels with sulfur contents greater the 15 ppm, refer to engine manufacturer recommendations.
CK-4	Current: describes oils for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. However, the use of these oils with greater than 15 ppm sulfur fuel may impact exhaust aftertreatment system durability and/or oil drain interval. API CK-4 oils are especially effective at sustaining emission control system durability where particulate filters and other advanced aftertreatment systems are used. API CK-4 oils are designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase. API CK-4 oils exceed the performance criteria of API CJ-4, CI-4 with CI-4 PLUS, CI-4, and CH-4 and can effectively lubricate engines calling for those API Service Categories. When using CK-4 oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval recommendations.
CJ-4	Current: For high-speed four-stroke cycle diesel engines designed to meet 2010 model year on-highway and Tier 4 nonroad exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm (0.05% by weight). However, the use of these oils with greater than 15 ppm (0.0015% by weight) sulfur fuel may impact exhaust aftertreatment system durability and/or drain interval. CJ-4 oils are especially effective at sustaining emission control system durability where particulate filters and other advanced aftertreatment systems are used. Optimum protection is provided for control of catalyst poisoning, particulate filter blocking, engine wear, piston deposits, low- and high-temperature stability, soot handling properties,oxidative thickening, foaming, and viscosity loss due to shear. API CJ-4 oils exceed the performance criteria of API CI-4 with CI-4 PLUS, CI-4, CH-4, CG-4 and CF-4 and can effectively lubricate engines calling for those API Service Categories. When using CJ-4 oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval.

DIESEL ENGINES

CI-4	Current: Introduced in 2002. For high-speed, four-stroke engines designed to meet 2004 exhaust emission standards implemented in 2002. CI-4 oils are formulated to sustain engine durability where exhaust gas recirculation (EGR) is used and are intended for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4, CG-4, and CH-4 oils. Some CI-4 oils may also qualify for the CI-4 PLUS designation.
CH-4	Current: Introduced in 1998. For high-speed, four-stroke engines designed to meet 1998 exhaust emission standards. CH-4 oils are specifically compounded for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4, and CG-4 oils.
CG-4	Obsolete: Introduced in 1995. For severe duty, high-speed, four-stroke engines using fuel with less than 0.5% weight sulfur. CG-4 oils are required for engines meeting 1994 emission standards. Can be used in place of CD, CE, and CF-4 oils.
CF-4	Obsolete: Introduced in 1990. For high-speed, four-stroke, naturally aspirated and turbocharged engines. Can be used in place of CD and CE oils.
CF-2	Expired Introduced in 1994. For severe duty, two-stroke-cycle engines. Can be used in place of CD-II oils.
CF	Expired Introduced in 1994. For off-road, indirect-injected and other diesel engines including those using fuel with over 0.5% weight sulfur. Can be used in place of CD oils.
CE	Obsolete: CAUTION: Not suitable for use in most diesel-powered automotive engines built after 1994.
CD-II	Obsolete: CAUTION: Not suitable for use in most diesel-powered automotive engines built after 1994.
CD	Obsolete: CAUTION: Not suitable for use in most diesel-powered automotive engines built after 1994.
CC	Obsolete: CAUTION: Not suitable for use in diesel-powered engines built after 1990.
CB	Obsolete: CAUTION: Not suitable for use in diesel-powered engines built after 1961.
CA	Obsolete: CAUTION: Not suitable for use in diesel-powered engines built after 1959.

The ILSAC (International Standardization and Approval Committee) uses together with another American Institute and the JAMA (Japan Automobile Manufacturers Association) the API Classifications for an individual ILSAC Standard:t

GF-6	Provide protection against low-speed pre-ignition (LSPI), timing chain wear protection, improved high temperature deposit protection for pistons and turbochargers, more stringent sludge and varnish control, improved fuel economy, enhanced emission control system protection and protection of engines operating on ethanol-containing fuels up to E85.
GF-6A	Current: introduced in May 2020 for oil viscosities a slow as 0W-20.
GF-6B	Current: introduced in May 2020 for engines requiring 0W-16 oils.
GF-5	Current: Introduced in October 2010, designed to provide improved high temperature deposit protection for pistons and turbochargers, more stringent sludge control, improved fuel economy, enhanced emission control system compatibility, seal compatibility, and protection of engines operating on ethanol-containing fuels up to E85. (obsolete on May 1, 2021)
GF-4	Obsolete: Use GF-6A where GF-4 is recommended.
GF-3	Obsolete: Use GF-6A where GF-3 is recommended.
GF-2	Obsolete: Use GF-6A where GF-2 is recommended.
GF-1	Obsolete: Use GF-6A where GF-1 is recommended.

MIL-Specifications (Military Standard in USA):

MIL-L	Lubricants
MIL-G	Greases, Hydraulic fluids

Engine oils for passenger cars –

USVO®

With our RAVENOL USVO® technology, we offer particularly high-quality and durable oils. Our USVO® lubricants are characterised by their exceptional formulations and ingredients, providing a continuous protective film even under high thermal and mechanical strain. They have extremely high shear and oxidation stability and, due to their low evaporation loss and the associated reduced pollutant emissions, they are gentle on the environment.



RAVENOL EFS Eco Fullsynth

SAE 0W-20 | SN Plus, SP (RC) | ACEA C5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

ILSAC GF-6A, BMW Longlife-17 FE+, VOLVO VCC RBS0-2AE 0W-20- Service Fill, MB 229.71, MB 229.72, Chrysler MS-13340, Opel OV 040 1547 - A20, Honda, Nissan, Mazda, Suzuki, Toyota, VOLVO, Geely, Lynk & Co, Polestar

Art. No.: 1111105



RAVENOL VSE

SAE 0W-20 | ACEA C5

PAO (Poly-alpha-olefin) based fully synthetic low friction motor oil with especially USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

VW 508 00/509 00, Porsche C20, Ford WSS-M2C956-A1

Art. No.: 1111112



RAVENOL FES

SAE 0W-30 | API SP (RC) | ACEA C2, A5/B5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

ILSAC GF-6A, BMW Longlife-12FE, Chrysler MS-13340; FIAT 9.55535-DS1/ GS1; Ford WSS-M2C950-A; IVECO 18-1811 CLASSE SC1 LV; Jaguar Land Rover STJLR.03.5007; DTFR 15D100, MB 227.61, 229.61, PSA B71 2290, B71 2312

Art. No.: 1111146



RAVENOL Extra Fuel Economy EFE

SAE 0W-16 | API SP (RC)

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection.

ILSAC GF-6B, Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine, Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Renault AN2022, Toyota 08880-11005

Art. No.: 1111103



RAVENOL Eco Synth ECS

SAE 0W-20 | API SN(RC) | ACEA C5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

ILSAC GF-5, Resource Conserving, MB 229.71, Fiat 955535-DSX, Ford WSS-M2C947-A/ 952-A1, GM 6094M, Honda/ Acura HTO-6, Chrysler MS-6395, Mitsubishi, Nissan, Mazda, PSA B71 2010, Suzuki, Toyota, Jaguar Land Rover STJLR.03.5006, STJLR.51.5122, Opel OV 040 1547 - A20, Buick, Cadillac, Chevrolet, GM dexos1, Infiniti

Art. No.: 1111102



RAVENOL DFE

SAE 0W-20 | SN Plus, SP (RC)

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbocharging like Turbo-GDI and direct injection. Helps to prevent LSPI (low speed pre-ignition).

ILSAC GF-6A, GM dexos1™ Gen 3, Ford WSS-M2C947-A/-B1, Chrysler MS6395, MS-13340

Art. No.: 1111109



RAVENOL VSF

SAE 0W-30 | ACEA C2

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Jaguar Land Rover STJLR.03.5007, Ford WSS-M2C950-A

Art. No.: 1111107



RAVENOL VSW

SAE 0W-30 | ACEA C3

Fully synthetic low friction motor oil with USVO® technology for passenger car engines with and without turbo-charging and direct injection.

BMW Longlife-04, MB 229.31, 229.51, 229.52, Porsche C30, VW 504 00 / 507 00, Chrysler MS-11106

Art. No.: 1111106



RAVENOL SSO

SAE 0W-30 | API SN/CF | ACEA A3/B4

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

VOLVO VCC 95200356 (Service Fill), MB 229.5, VW 502 00 / 503 01(Audi) / 505 00, BMW Longlife-01, BMW Longlife-98, GM-LL-A-025, GM-LL-B-025, Renault RN0700 / RN0710

Art. No.: 1111100



RAVENOL SSV Fuel Economy

SAE 0W-30 | API SP | ACEA A5/B5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

VOLVO VCC 95200377, MB 229.6

Art. No.: 1111145



RAVENOL Super Synthetik Öl SSL

SAE 0W-40 | API SP/SN Plus/CF | ACEA A3/B4

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.3, MB 229.5, MB 226.5, VW 502 00 / 505 00, BMW Longlife-01, Porsche A40, Renault RN0700 / RN0710, Fiat 9.55535-M2, Chrysler MS-12633, Chrysler MS-10725, Ford WSS-M2C937-A

Art. No.: 1111108



RAVENOL High Fuel Economy HFE

SAE 5W-16 | API SN

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine, Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005

Art. No.: 1111104



RAVENOL VMP

SAE 5W-30 | API SN | ACEA C3

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multi-Oil.

BMW Longlife-04, VW 504 00 / 507 00, MB 229.51, MB 229.31, Porsche C30 (currently valid for PORSCHE Diesel cars, Cayenne V6 and all PORSCHE Hybrid cars), Fiat 9.55535-S1, Audi/Volkswagen G 052 195 M2, G 052 195 M4, G 052 195 M6, BMW 83 21 0 398 507, BMW/Mini 83 21 0 398 508, Mercedes Benz 000 989 89 01 10, Chrysler MS-11106, Audi Motorsport V31 748 026

Art. No.: 1111122



RAVENOL VollSynth Turbo VST

SAE 5W-40 | API SP/SN Plus | ACEA A3/B4

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimizes fuel consumption, excellent cold start characteristics. Extended oil change intervals according to manufacturers recommendation.

MB 229.5, MB 226.5, MB 229.3, Porsche A40, VW 502 00 / 505 00, BMW Longlife-01, Opel GM-LL-B-025, Renault RN0700 / RN0710, Chrysler MS-12991 (ersetzt MS-10896), MS-10850, MS-10725 (Fiat 9.55535-Z2), PSA B71 2296

Art. No.: 1111136



RAVENOL Super Fuel Economy SFE

SAE 5W-20 | API SP (RC) | ACEA A5/B5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

ILSAC GF-6A, FORD WSS-M2C930-A, FORD WSS-M2C930-B (extended drain capability), Ford WSS-M2C925-A/B, Ford WSS-M2C948-B, Chrysler MS-6395, Honda/Acura HTO-6, Nissan, Mazda, Suzuki, Toyota, Fiat 9.55535-CR1, JaguarLandRover STJLR.03.5004

Art. No.: 1111110



RAVENOL DXG

SAE 5W-30 | API SP (RC), SN Plus

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection.

ILSAC GF-6A, Resource Conserving, GM dexos1™ Gen 3, Chrysler MS-6395, MS-13340; Fiat 9.55535-CR1, Ford WSS-M2C946-A/-B1, Ford WSS-M2C929-A, Ford WSS-M2C961-A, Honda/Acura HTO-06, Opel OV 040 1547 - G30, VWC 53034

Art. No.: 1111124



RAVENOL FDS

SAE 5W-30 | API SL/CF | ACEA A7/B7 A5/B5

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Renault RN0700, FORD WSS-M2C913-D (fulfills FORD WSS-M2C913-A/B/C), Fiat 9.55535-G1, JAGUAR LAND ROVER STJLR.03.5003, MB 229.6

Art. No.: 1111139

Engine oils for passenger cars – CleanSynto®

A high level of expertise, technical development and high-quality components are what makes RAVENOL engine oils stand out. Our exclusively “100% Made in Germany” oils fulfil all of the requirements which lubricants must deliver for the latest vehicles. Manufactured according to internationally recognised quality standards in our modern production facility and equipped with our CleanSynto® technology, we ensure that our engine oils offer lubrication and functionality, thus extending the service lives of cars. The quality of our oils is also demonstrated through the numerous approvals we have been granted by car manufacturers.



RAVENOL FEH

SAE 0W-16 | API SP(RC) | ILSAC GF-6B

Synthetic high performance motor oil with CleanSynto® technology and PAO content for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005

Art. No.: 1112115



RAVENOL RNF

SAE 0W-20 | ACEA C5

Synthetic high-performance, low-friction motor oil with CleanSynto® technology for passenger cars petrol and diesel engines based on the latest additive technology with selected base oils. Particularly suitable for engines from Renault and Dacia.

RN17FE

Art. No.: 1111153



RAVENOL EHS

SAE 0W-20 | API SP(RC) | API SN Plus | ACEA C5/C6

Synthetic, low-friction engine oil with CleanSynto® technology for car gasoline and diesel engines, with and without turbocharging and direct injection.

ILSAC GF-6A, MB 229.71, Fiat 955535-DSX/GSX, Ford WSS-M2C947-A/ 952-A1/ 954-A1/ 962-A1, Jaguar Land Rover STJLR.03.5006, STJLR.51.5122, GM dexos1TM (First Generation), GM 6094M, Chrysler MS-6395, Mitsubishi, Mazda, Suzuki, Honda/Acura HTO-06, Toyota, Subaru, Nissan, Lexus, Infiniti, Cadillac, Chevrolet, Buick, VOLVO, Geely, Lynk & Co, Polestar

Art. No.: 1111113



RAVENOL EHC

SAE 0W-20 | API SP(RC), SN Plus

Synthetic, low-friction engine oil with CleanSynto® technology for car gasoline engines, with and without turbocharging and direct injection.

ILSAC GF-6A, Buick, Cadillac, Chevrolet, Chrysler MS-6395, Ford WSS-M2C947-A, Ford WSS-M2C952-A1, GM 6094M, GM dexos1 (First Generation), Honda/Acura HTO-06, Infiniti, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki, Toyota

Art. No.: 1111128



RAVENOL Super Synthetic Hydrocrack SSH

SAE 0W-30 | API SM | ACEA A3/B4

Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer.

MB 229.3, VW 502 00 / 505 00, BMW Longlife-98, Renault RN700/0710, VOLVO 95200356

Art. No.: 1111138



RAVENOL HSV

SAE 0W-30 | API SP

Synthetic motor oil with CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer.

MB 229.6, VOLVO VCC 95200377

Art. No.: 1112117



RAVENOL HSW

SAE 0W-30 | API SN | ACEA C3

Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer.

BMW Longlife-04, MB 229.51, MB 229.52, Porsche C30, VW 504 00, VW 507 00

Art. No.: 1112118



RAVENOL WIV II

SAE 0W-30 | ACEA A5/B5

Fully synthetic low friction motor oil with CleanSynto® technology for VW and Audi petrol and diesel engines with pump-injection and extended service intervals (Longlife II).

VW 503 00 / 506 00 / 506 01

Art. No.: 1111101



RAVENOL VFE

SAE 5W-20 | API SP(RC), API SN Plus | ACEA A5/B5

Synthetic low friction low SAPS motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimizes friction, wear and fuel consumption.

ILSAC GF-6A, Chrysler MS-6395; Fiat 9.55535-CR1; Ford WSS-M2C930-A, Ford WSS-M2C930-B (extended drain capability), Ford WSS-M2C925-A/B, Ford WSS-M2C948-B; Honda/Acura HTO-06; Hyundai; Jaguar Land Rover STJLR.03.5004; Kia; Mazda; Mitsubishi; Nissan; Suzuki; Toyota

Art. No.: 1111311



RAVENOL GFE

SAE 5W-20 | API SP(RC),
API SN Plus

Synthetic, low-friction engine oil with CleanSynto® technology for passenger car gasoline and diesel engines, with and without turbocharging and direct injection.

ILSAC GF-6A, GM dexos1™ Gen 3, Chrysler MS-13340, MS-6395; Ford WSS-M2C945-B1, Ford WSS-M2C960-A1

Art. No.: 1111111



RAVENOL FO

SAE 5W-30 | SL/CF | ACEA A5/B5

Engine oil suitable for fuel-saving year-round use in modern gasoline and diesel engines in cars, vans and similar vehicles from FORD, RENAULT, Toyota, Hyundai, KIA, Mazda, Honda, Nissan and Mitsubishi.

Fiat 9.55535-G1; FORD WSS-M2C913-D (supersedes 913-A/-B/-C); JAGUAR LAND ROVER STJLR.03.5003; MB 229.6; RENAULT RN0700

Art. No.: 1111115



RAVENOL SMO

SAE 5W-30 | API SN(RC)

Synthetic, low-friction engine oil with CleanSynto® technology for passenger car gasoline and diesel engines, with and without turbocharging and direct injection.

ILSAC GF-5, Ford WSS-M2C929-A, Ford WSS-M2C946-A, Chrysler MS-6395, GM 6094M, Fiat 9.55535-CR1, Nissan, Subaru, Toyota, Ford, Chrysler, Lexus, Mazda

Art. No.: 1111151



RAVENOL HCL

SAE 5W-30 | API SN/CF | ACEA A3/B4

Synthetic low friction motor oil with CleanSynto® technology for passenger car and van petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.5, BMW Longlife-01, BMW Longlife-01 FE, VW 502 00 / 505 00 / 501 01

Art. No.: 1111118



RAVENOL HPS

SAE 5W-30 | API SL/CF | ACEA A3/B4

Semi-synthetic low friction motor oil with CleanSynto® technology with poly alpha olefin for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.3, BMW Longlife-98, VW 502 00 / 505 00

Art. No.: 1111117



RAVENOL HLS

SAE 5W-30 | API SN/CF | ACEA C3

Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF). Extended oil change intervals.

MB 229.51, MB 229.52, MB 229.31, BMW Longlife-04, VW 502 00 / 505 00 / 505 01, GM dexos2™, Opel OV 040 1547 - D30, Fiat 9.55535-S3, Chrysler MS-11106

Art. No.: 1111119



RAVENOL FLJ

SAE 5W-30 | ACEA C1

Synthetic, low SAPS, low-viscosity motor oil with CleanSynto® technology that is suitable for petrol and diesel cars, with or without turbochargers and fuel injectors. It minimises friction, deterioration and fuel consumption, as well as possessing excellent cold-start characteristics and a lengthened oil change interval.

JAGUAR LAND ROVER STJLR.03.5005, FORD WSS-M2C934-A/-B, MAZDA, Mitsubishi

Art. No.: 1111143



RAVENOL FEL

SAE 5W-30 | API SN/CF | ACEA C2

Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >2,9 mPa*s(cP).

Chrysler MS-13340, JASO DL-1 (D049RAV111), PSA B71 2290, FIAT 9.55535-S1, HONDA i-DTEC / i-CTDi, MAZDA MZR-CD / MZ-CD / CiTD, Mazda 183419 / 183418, TOYOTA 08880-83389 / 08880-83388, IVECO 18-1811 CLASS SC1, SUBARU Boxer Diesel, SUZUKI

Art. No.: 1111123



RAVENOL HDS Hydrocrack Diesel Specific

SAE 5W-30 | ACEA C4

Synthetic low friction mid SAPS motor oil with CleanSynto® technology for passenger car diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >3,5 mPa*s(cP).

Renault RN0720, MB 226.51

Art. No.: 1111121



RAVENOL UFE

SAE 0W-8

Synthetic high performance motor oil with CleanSynto® technology and PAO content for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

JASO GLV-1

Art. No.: 1111155



RAVENOL VSH

SAE 0W-20 | ACEA C5

HC (Hydrocrack) and PAO (Polyalphaolefin) based synthetic low friction motor oil with proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

Porsche C20, VW 508 00 / 509 00, Ford WSS-M2C956-A1

Art. No.: 1111154



RAVENOL VSI

SAE 5W-40 | API SP/SN Plus/CF | ACEA A3/B4

PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.3, MB 226.5, VW 502 00 / 505 00, BMW Longlife-01, Porsche A40 (except Cayenne V6), Opel GM-LL-B-025, Fiat 9.55535-H2, Chrysler MS-10850, MS-10896, RENAULT RN0700, RN0710, PSA B71 2296

Art. No.: 1111130



RAVENOL SHL

SAE 0W-40 | API SN/CF | ACEA A3/B4

HC (Hydrocrack) and PAO (Polyalphaolefin) based, fully synthetic motoroil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

BMW Longlife-01; Ford WSS-M2C937-A, MB 229.5, Renault RN0710; Porsche A40; VW 502 00, VW 505 00

Art. No.: 1111127



RAVENOL HDX

SAE 5W-30 | API SP (RC), SN Plus

Synthetic, low-friction engine oil with CleanSynto® technology for car gasoline engines, with and without turbocharging and direct injection, such as Turbo-GDI and direct injection.

ILSAC GF-6A, GM dexos1™ Gen 3, Chrysler MS-6395, MS-13340, Fiat 9.55535-CR1, Ford WSS-M2C946-A/-B1, Ford WSS-M2C929-A, Honda/Acura HTO-06, Opel OV 040 1547 - G30

Art. No.: 1111125



RAVENOL SMP

SAE 5W-30 | API SN | ACEA C3

Mid SAPS low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction.

BMW Longlife-04, MB 229.51, MB 229.31, VW 504 00 / 507 00 (for Europe and North America), Porsche C30, Fiat 9.55535-S1, Audi/Volkswagen G 052 195 M2, G 052 195 M4, G 052 195 M6, BMW 83 21 0 398 507, BMW/Mini 83 21 0 398 508, Mercedes Benz 000 989 89 01 10, Chrysler MS-11106

Art. No.: 1111126



RAVENOL HST

SAE 5W-40 | API SP | ACEA A3/B4

Motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection, formulated with synthetic base oils. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Extended oil change intervals according to manufacturer's recommendation.

BMW Longlife-01, RENAULT RN0700, RN0710, MB 229.3, MB 229.5, Porsche A40, VW 502 00 / 505 00, Opel GM-LL-B-025, Fiat 9.55535-Z2, Chrysler MS-12991 (replaces MS-10896), MS-10850, MS-10725 (Fiat 9.55535-Z2), PSA B71 2296

Art. No.: 1111147



RAVENOL HCS

SAE 5W-40 | API SN/CF | ACEA A3/B4

Synthetic low friction motor oil with CleanSynto® technology for passenger car gasoline and diesel engines with and without turbo-charging and direct injection.

MB 229.3, MB 226.5, VW 502 00 / 505 00, BMW Longlife-01, Renault RN0700 / RN0710, Opel GM-LL-B-025, Porsche A40, Chrysler MS-10850, MS-10896, PSA B71 2296

Art. No.: 1112105



RAVENOL TSJ

SAE 10W-30 | API SP (RC), SN Plus

Semi-synthetic multigrade with CleanSynto® technology for year round use in gasoline and diesel engines under all operating conditions. Especially for modern Japanese and Asian cars.

ILSAC GF-6A, Resource Conserving, Toyota, Nissan, Honda, Mitsubishi, Mazda, Suzuki, Isuzu, Subaru, Daihatsu, KIA, Hyundai, SsangYong, Daewoo, Fiat 9.55535-CR1, Chrysler MS-6395

Art. No.: 1112106



RAVENOL RNV

SAE 5W-30 | ACEA C3

Synthetic low-friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines based on the latest additive technology with selected base oils. It was specially developed for Renault and Dacia engines.

Renault RN 17, MB 226.52

Art. No.: 1111114



RAVENOL VDL

SAE 5W-40 | API CF | ACEA B3/B4

Fully synthetic low friction motor oil with CleanSynto® technology for passenger car diesel engines with and without turbo-charging and direct injection.

MB 229.3, BMW Longlife-98, VW 505 00, Opel GM-LL-B-025, TOYOTA Common Rail, MITSUBISHI, NISSAN, Fiat 9.55535-M2

Art. No.: 1111132



RAVENOL VMO

SAE 5W-40 | API SN/CF | ACEA C3

Synthetic MID SAPS low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including pump-injection technology, DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multi-Oil.

MB 229.31, MB 229.51, VW 502 00 / 505 00 / 505 01, BMW Longlife-04, GM dexos2™, Porsche A40, Ford WSS-M2C 917-A, Fiat 9.55535-S2, Fiat 9.55535-GH2

Art. No.: 1111133



RAVENOL TSi

SAE 10W-40 | API SP/SN Plus/CF | ACEA A3/B4

Semi-synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.1, 229.3, BMW Special Oil, VW 501 00 / 505 00, VW 502 00 / 500 00, MB 229.3

Art. No.: 1112110



RAVENOL DLO

SAE 10W-40 | API CF | ACEA A3/B4

Semi-synthetic low friction motor oil with CleanSynto® technology for passenger car diesel engines with and without turbo-charging and direct injection.

MB 229.1, BMW Special Oil, VW 500 00 / 501 01 / 505 00, Porsche

Art. No.: 1112111



RAVENOL LLO

SAE 10W-40 | API SN/CF | ACEA A3/B4

Semi-synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.

MB 229.1, BMW Special Oil, VW 500 00 / 501 01 / 505 00

Art. No.: 1112112

Engine oils/ Special engine oils

Our passenger car engine oil classics. Solid mineral single and multigrade engine oils which are suitable for many vehicles with petrol and diesel engines and a wide variety of areas of application.



RAVENOL Formel Extra

SAE 20W-50 | API SF/CD | ACEA A2/B2

Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars and trucks.

MB 227.1, MIL-L-46152 B, MIL-L-2104 D, CCMC G4

Art. No.: 1113120



RAVENOL Super Turbo

SAE 20W-50 | API SL/CF/CH-4 | ACEA A3/B4, E2

Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars.

Cummins CES 20071; Deutz DQC II-10; Mack EO-M; MAN 271; MB 228.1, MB 229.1; MTU Typ 1; Volvo VDS; VW 501 01/505 00

Art. No.: 1113126



RAVENOL Super HD

SAE 30 | API SF/CD

Mineral monograde motor oil used in petrol and diesel engines with and without turbo charging in passenger car petrol and diesel engines, trucks and stationary plants.

MIL-L-46152 B, MIL-L-2104 D
MB 227.0, CCMC G4

Art. No.: 1113300



RAVENOL Formel Standard

SAE 10W-30 | API SF/CD | ACEA A2/B2

Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars and trucks.

CCMC G4; MB 227.1; MIL-L-46152 B, MIL-L-2104 D

Art. No.: 1113110



RAVENOL Turbo-C HD-C

SAE 15W-40 | API CF-4/CF/SL | ACEA A3/B4, E2

Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars and trucks. Extended oil change intervals until 45.000 km.

MB-229.1, MAN 271, MAN 3275-1, ZF TE-ML 07C, VW 501 01 / 505 00, Allison C4, Caterpillar TO-2, Volvo VDS, MACK EO-L, MTU Type 2

Art. No.: 1113103



RAVENOL Formel Super

SAE 15W-40 | API SF/CD | ACEA A2/B2

Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars and trucks.

MB 227.1, MIL-L-46152 B, MIL-L-2104 D, CCMC G4

Art. No.: 1113115



RAVENOL Super HD

SAE 50 | API SF/CD

Mineral monograde motor oil used in petrol and diesel engines with and without turbo charging in passenger car petrol and diesel engines, trucks and stationary plants.

CCMC G2/D1, MIL-L-46152 B/C, Ford ESE-M2C 153C, Ford SMM-2C 9011A, GM 6085M

Art. No.: 1113305



RAVENOL Break-In Oil

SAE 30

Mineral break-in oil for start-up filling and the breaking-in of repaired or overhauled engines.

Art. No.: 1114105



RAVENOL Break-In Oil

20W-50

Mineral break-in-oil for the initial filling and running-in of repaired or overhauled engines with special high-pressure additives that can withstand very high pressure.

Art. No.: 1114110

High Mileage

Thanks to the unique formulations which have been specially developed and optimised for high mileage vehicles, RAVENOL high mileage engine oils fulfil all the requirements of high mileage petrol and diesel vehicles for a high-quality lubricant.



RAVENOL



RAVENOL SVT Standard Viscosity Turbo Oil

SAE 10W-40 | API SM/CF | ACEA A3/B4

Semi-synthetic low friction multigrade engine oil for vehicles with petrol and diesel engines with or without turbocharging and high mileage.

MB 229.1, BMW Special Oil, VW 505 00/ 501 00, VW 502 00 / 500 00

Art. No.: 1116103



RAVENOL HVE High Viscosity Ester Oil

SAE 10W-50 | API SN/CF | ACEA A3/B4

Fully synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.

MB 229.1

Art. No.: 1115101



RAVENOL HVS High Viscosity Synto Oil

SAE 10W-60 | API SN/CF | ACEA A3/B4

Fully synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.

MB 229.1

Art. No.: 1115102



RAVENOL SVE Standard Viscosity Ester Oil

SAE 5W-30 | API SN/CF | ACEA A3/B4

Semi-synthetic low friction multigrade engine oil for vehicles with petrol and diesel engines with or without turbocharging and high mileage.

MB 229.5, BMW Longlife-01, VW 502 00 / 505 00 / 501 01

Art. No.: 1116101



RAVENOL SVS Standard Viscosity Synto Oil

SAE 5W-40 | API SN/SP | ACEA A3/B4

Synthetic low friction multigrade engine oil for vehicles with petrol and diesel engines with or without turbocharging and high mileage.

MB 229.5, Porsche A40, VW 502 00 / 505 00, BMW Longlife-01, Opel GM-LL-B-025, Renault RN0700 / RN0710

Art. No.: 1115100



RAVENOL HVT High Viscosity Turbo Oil

SAE 5W-50 | API SN/CF | ACEA A3/B4

Synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.

MB 229.1

Art. No.: 1116102



RAVENOL SVP Standard Viscosity Performance Oil

SAE 15W-40 | API SJ/CF | ACEA A3/B4

Mineral multigrade engine oil for vehicles with petrol and diesel engines with or without turbocharging and high mileage.

MB 229.1, MAN 271, ZF TE-ML 07C, VW 505 00

Art. No.: 1117100



RAVENOL HVP High Viscosity Performance Oil

SAE 15W-50 | API SN/CF | ACEA A3/B4

Semi synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.

MB 229.1

Art. No.: 1116104

Oldtimer Classic engine oils

Vintage cars and more recent classics enjoy a constantly growing fan base. Some of these vehicles have history. Engines often have quite different requirements of lubricants than their modern relatives. RAVENOL has specifically developed Oldtimer Classic engine oils for this purpose. In order to guarantee the best possible engine protection, the formulations for the Classic oils have been adapted and structured according to the construction years. The Oldtimer Classic 1 single grade engine oils offer different viscosities for vehicles with a construction year prior to 1930 (Oldtimer Regular) and vehicles from 1930 to 1951 (Oldtimer Classic). In addition, RAVENOL offers various multigrade engine oils with vehicles from the construction years 1951 to 1979 with its Oldtimer Classic 2 series.



RAVENOL Oldtimer Classic

SAE 30 | API SB | Classic 1

Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives.

Car engines up to model year 1951.

Art. No.: 1118113



RAVENOL Oldtimer Classic

SAE 40 | API SB | Classic 1

Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives.

Car engines up to model year 1951.

Art. No.: 1118114



RAVENOL Oldtimer Classic

SAE 50 | API SB | Classic 1

Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives.

Car engines up to model year 1951.

Art. No.: 1118115



RAVENOL Oldtimer Regular

SAE 30 | API SA | Classic 1

Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates.

Car engines up to model year 1930.

Art. No.: 1118103



RAVENOL Oldtimer Regular

SAE 40 | API SA | Classic 1

Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates.

Car engines up to model year 1930.

Art. No.: 1118104



RAVENOL Oldtimer Regular

SAE 50 | API SA | Classic 1

Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates.

Car engines up to model year 1930.

Art. No.: 1118105



RAVENOL Oldtimer 50-er

SAE 20W-50 | API SC | Classic 2

Alloyed multigrade engine oil designed for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives.

Car engines up to model year 1967.

Art. No.: 1119106



RAVENOL Oldtimer 70-er

SAE 20W-50 | API SE | Classic 2

Alloyed multigrade engine oil designed for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives.

Car engines up to model year 1979.

Art. No.: 1119116

Natural Gas Engine Oils

Modern gas engines operate at high power concentrations as well as high efficiencies. To ensure functionally safe and reliable operation of gas engine systems, only extremely high performance oils can be used. In addition, the fuel gases used today require the gas engine oils to have special qualities. Only this way it is possible to achieve reliable engine operation with the maintenance outlay requirement as low as possible, such as sensible, cost-effective use.

RAVENOL has developed corresponding quality gas engine oils for these special cases and offers a full range of high-quality lubricants tailored to the special requirements of modern gas engines.

All products are distinctive thanks to their future-oriented performance and are subject to constant ongoing development.



RAVENOL VEG

SAE 5W-40 | API SP/SN Plus | ACEA A3/B4

Fully synthetic high alloyed motor oil for natural gas engines.

Natural gas engines

Art. No.: 1131100



RAVENOL TEG Gasmotorenöl

SAE 10W-40 | API SL/CF | ACEA A3/B3

Semi synthetic high alloyed motor oil for natural gas engines.

Natural gas engines

Art. No.: 1132100



RAVENOL MGS Gasmotorenöl

SAE 15W-40 | API CF-4/SJ | ACEA A3/B4, E2

High performance mineral multi grade motor oil used in natural gas engines.

MB 226.9, TEDOM Group 1P (61-0-0281.2)

Art. No.: 1133100



RAVENOL Gasmotorenöl

SAE 40

Mineral motor oil for lubrication of 4-stroke natural gas engines for gases with low sulfur content.

Application for natural gas, biogas and sewage gas.

Art. No.: 1133105

Rallye/Racing oils – USVO®

As a successful partner in more than 100 international racing series on land and water, RAVENOL products enjoy an outstanding reputation in the world of motorsport. Transmission and engine manufacturers from the field of motorsport engineering trust our expertise and other highly developed technologies such as USVO® or CleanSynto®, which make our lubricants so high-performance and reliable. Various touring and racing series are supplied with RAVENOL racing products. In 2021, we will continue with our successful partnerships in the elite class of motor racing – the FIA Formula 1 World Championship – with a cooperation with the Aston Martin Cognizant Formula One™ team. After a period of abstinence of 60 years, RAVENOL is supporting Aston Martin's return to Formula 1 as “Global Lubricants Partner”. The passion and technical expertise which is gleaned from and through motorsport significantly contributes to the outstanding quality of our 100% Made in Germany RAVENOL products.



RAVENOL RSP Racing Super Performance

SAE 5W-30 | API SN/CF | ACEA A3/B4

Modern fully synthetic fuel-saving multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition and motorsport engines operating in the most operating conditions.

VW 502 00 / 505 00, MB 229.5, BMW Longlife-01, Renault RN 0700/ RN0710, Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher

Art. No.: 1141089



RAVENOL REP Racing Extra Performance

SAE 5W-30 | API SN | ACEA C3

Modern fully synthetic fuel-saving multigrade engine oil with USVO® Technology with a low sulfate ash content and a reduced HTHS viscosity. Specially formulated for daily use and for use in motorsport engines operating in the most operating conditions.

MB 229.51, MB 229.52, MB 226.5, BMW Longlife-04, Renault RN 0700 / RN 0710, GM dexos2™, Opel OV 040 1547 - D30, Chrysler MS-11106, Fiat 9.55535-S2/-GH2, Opel OV 0401547-G40/D40, Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher

Art. No.: 1141088



RAVENOL RUP Racing Ultra Performance

SAE 5W-40 | API SP | ACEA C3

Modern, fully synthetic, fuel-saving, low friction multigrade engine oil with low sulphated ash content and USVO® Technology for extremely sporty driving styles and for car racing.

MB 229.51, BMW Longlife-04, VW 511 00 / 502 00 / 505 00 / 505 01, Porsche C40, Renault RN 0710, GM Dexos2™, Ford WSS-M2C917A, Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher

Art. No.: 1141091



RAVENOL RCS Racing Competition Synto

SAE 5W-40

High performance fully synthetic engine oil with USVO® Technology especially developed to maximise power release whilst giving ultimate protection in both race, rallye and Off-Road applications. Use as an upgrade where an SAE 5W-30 was originally specified by the vehicle manufacturer.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher, Opel Motorsport

Art. No.: 1141090



RAVENOL RRS Racing Rally Synto

SAE 5W-50

Fully synthetic multigrade engine with USVO® Technology oil based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition and motorsport engines operating in the most operating conditions.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher, Opel Motorsport

Art. No.: 1142100



RAVENOL RSE Racing Sport Ester

SAE 10W-50

Fully synthetic multigrade engine with USVO® Technology oil based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition engines using low friction technology but providing a better viscosity at high operating temperatures.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher, Opel Motorsport

Art. No.: 1141105



RAVENOL RSS Racing Sport Synto

SAE 10W-60

Fully synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Recommended for all Motorsport applications requiring a thicker grade of oil. Uses latest low friction technology to ensure maximum release of power.

Areas of application: ADAC GT masters, FIA F3 EUROPEAN Championship
Racetrack partnership: HOCKENHEIMRING, Nürburgring

Art. No.: 1141100



RAVENOL RFS Racing Formel Sport

SAE 15W-50

Synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in Motorsport applications providing maximum release of power with ultimate engine protection.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher, Opel Motorsport

Art. No.: 1142105



RAVENOL RHV Racing High Viscosity

SAE 20W-60

Fully synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Recommended for all Motorsport applications requiring a thicker grade of oil. Uses latest low friction technology to ensure maximum release of power.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommended by Ralf Schumacher, Opel Motorsport

Art. No.: 1141101



RAVENOL Racing Castor 2T

Two-stroke Kart oil with castor technology and ester synthetic additives for 2-stroke engines with methanol and ethanol as fuel, e.g. Kart engines and Speedway engines. Miscible with petrol, methanol and ethanol. Do not mix with mineral and synthetic two-stroke motor oils. Recommended mixing ratio 20:1.

FIA-CIK Homologation

Art. No.: 1144101



RAVENOL Racing Brake Fluid R 325+

Very heavy-duty high-performance brake fluid with a very high wet boiling point especially developed for Motorsport (cars and motorcycles) and similar high temperature applications.

Exceeds the requirements FMVSS 116 DOT 4, DOT 5.1, SAE J1703, SAE J1704

Art. No.: 1350604



RAVENOL Racing Gear Oil

API GL-5+LS

Fully synthetic transmission oil with USVO® Technology, especially developed for and approved by Drexler transmissions in Germany. Ideal for highly stressed differentials. Reduces foaming, increases thermal stability and provides ultimate wear protection.

Drexler limited slip differential (Lamellen-Selbstsperrdifferential) in BMW Alpina B5, B6, GT3, GT4, M3, Z4 and World Touring Car Championship (WTCC), Chrysler Viper GT3, Corvette Z06, Fiat Abarth, Lamborghini Murcielago, Mercedes AMG C 63, CLS 63, E 63, SL 63, SLS

Art. No.: 1221111



RAVENOL RHP Racing High Performance Gear

SAE 75W-90

Fully synthetic transmission oil with USVO® Technology especially developed for racing cars. It provides outstanding wear protection and thermal stability. Especially suitable for front wheel drive applications.

Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport

Art. No.: 1145100



RAVENOL Racing Kart 2T

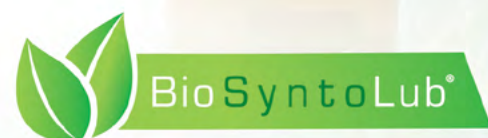
Fully synthetic, no-compromise two-stroke racing oil which carries full FIA-CIK Homologation and Approval. Based on wide experience in karting, road racing and motocross, it has been developed and tested worldwide under the harshest conditions, including on Grand Prix circuits. Fully synthetic, uncompromising 2-stroke racing oil. Tested globally under the most difficult conditions on Grand Prix tracks in karting, road racing and motocross racing.

FIA-CIK Homologation

Art. No.: 1144100

Rallye/ Racing oils, CO₂ neutral and biodegradable with USDA® certificate

RAVENOL®, the brand of Ravensberger Schmierstoffvertrieb GmbH, proudly presents the new RAVENOL BioSyntoLub® Racing Eco series. This series, based on USDA® certified, renewable raw materials, sets standards as the first CO₂-neutral product line of a lubricant company in Europe.



RAVENOL Racing Eco Competition REC

SAE 0W-40 | API CF/SN | ACEA A3/B4

Fully synthetic fuel-efficient multigrade engine oil based on renewable vegetable raw materials.

USDA, Ford WSS-M2C937-A, MB 226.5, MB 229.3, MB 229.5, Porsche A40, Renault RN0700, Renault RN0710

Art. No.: 1143101



RAVENOL Racing Eco Track RET

SAE 5W-40 | API CF/SP | ACEA C3

Fully synthetic fuel-efficient multigrade engine oil based on renewable vegetable raw materials.

USDA

Art. No.: 1143103



RAVENOL Racing Eco Rally RER

SAE 5W-50 | API CF/SN | ACEA A3/B4

Fully synthetic fuel-efficient multigrade engine oil based on renewable vegetable raw materials.

USDA

Art. No.: 1143102



RAVENOL Racing Eco Synthetic RES

SAE 10W-60 | API CF/SN | ACEA A3/B4

Fully synthetic fuel-efficient multigrade engine oil based on renewable vegetable raw materials.

USDA

Art. No.: 1143100



RAVENOL Racing Eco Gear REG

SAE 75W-90 | API GL-5+LS

Fully synthetic multi-grade hypoid gear oil for manual transmissions based on renewable vegetable raw materials.

USDA, ZF TE-ML 07A, ZF TE-ML 08

Art. No.: 1145011



RAVENOL Racing Gear Oil Eco RGE

SAE 75W-140 | API GL-5+LS

Fully synthetic multi-grade hypoid gear oil for manual transmissions based on renewable vegetable raw materials.

USDA, ZF TE-ML 07A, ZF TE-ML 08

Art. No.: 1145010

Commercial Vehicle engine oils

RAVENOL Commercial Vehicle engine oils offer the right lubricant for any requirement. Special additives and blends with special base oils guarantee use both at low temperatures and under particularly heavy strain. The quality of our Commercial Vehicle engine products is highlighted and regularly confirmed through the extensive approvals from Commercial Vehicle engine oils manufacturers.



RAVENOL LDD Light Duty Diesel

SAE 0W-20 | API SP; SN Plus |
ACEA A1/B1, C5

Synthetic diesel engine oil for light vans, commercial vehicles and small trucks. It is formulated based on the latest additive technology and with high quality hydrocrack base oils.

Jaguar Land Rover STJLR 03.5006, Ford WSS-M2C952-A1, GM DexosD, MB 229.71, Opel OV 040 1547 - A20

Art. No.: 1121107



RAVENOL TFE Truck Fuel Efficiency

SAE 5W-20

Synthetic high-performance diesel engine oil with CleanSynto® technology and reduced HTHS viscosity for the latest generation of MAN and Scania trucks.

MAN M 3977, Scania LDF-5

Art. No.: 1121130



RAVENOL FET Fuel Efficiency Truck

SAE 5W-30 | API SN/FA-4

Synthetic Fuel Economy Longlife multigrade engine oil with an HTHS viscosity between 2.9 cP and 3.2 cP, designed specifically for the latest generation of turbo diesel commercial vehicle engines.

MB 228.61, Cummins CES 20087; DDC 93K223, Renault Trucks RLD-5, Volvo VDS-5, DTFR 15C130, Mack EOS-5

Art. No.: 1121105



RAVENOL Super Performance Truck

SAE 5W-30 | API CF/CI-4 | ACEA E4, E7

USHPD low friction motor oil for commercial vehicle. Oil change interval up to over 100.000 km. All year recommended for EURO I, II, III, IV and EURO V engines.

MB 228.5, MB 235.28, MTU Type 3, MAN M3277, Volvo VDS-3, Cummins CES 20076, -77, -78, Renault RXD, IVECO, MACK EO-M Plus, Voith Retarder B, Global DHD-1, JASO DH-1, SCANIA LDF-3, DTFR 13D110 (MB 235.28), DTFR 15B120 (MB 228.5)

Art. No.: 1122102



RAVENOL Super Synthetic Truck

SAE 5W-30 | API CI-4 | ACEA E7, E6, E4, E8, E9, E11

All-season fully synthetic "Low SAPS" lorry motor oil. For use in EURO 4 and EURO 5 engines along with low-sulphur diesel. Suitable for use in engines with or without particle filter and catalytic converter.

Cummins CES 20076 / 20077, DAF HP-2, Deutz DQC-III-10LA, MAN M 3277, MAN M 3477, MB 228.51, MB 226.9, MTU Typ 3.1, Scania LDF, Volvo VDS-3, Renault RLD-2, RXD, Mack EO-N, JASO DH-2, DTFR 15C110 (MB 228.51)

Art. No.: 1121101



RAVENOL Ultra Synthetic Truck

SAE 5W-30 | API CJ-4, CK-4, SN | ACEA E4, E6, E7, E8, E9, E11

Synthetic fuel economy "Low SAPS" year-round multigrade diesel engine oil based on the latest additive technology combined with very special base oils. Suitable for use in heavy diesel engines even under the toughest operation conditions and all the year round.

Caterpillar ECF-3, Cummins CES20081, Detroit Diesel 93K218, Deutz DQC IV-10 LA, MAN M 3271-1, MAN 3297-1, MAN M 3477, MAN M 3575, MAN M 3677, MAN 3691, MB 228.51, MB 228.31, MTU Typ 3.1, MTU Typ 2.1, Volvo VDS-4, Renault VI RLD-3, Mack EO-O Premium Plus, Scania LowAsh, Scania LDF-4, JASO DH-2, Volvo CNG, DAF, Voith Retarder B, DTFR 13D110 (MB 235.28), DTFR 15C100 (MB 228.31), DTFR 15C110 (MB 228.51)

Art. No.: 1121102

Art. No.: 1121106**Art. No.: 1121120****Art. No.: 1122103****Art. No.: 1121104****Art. No.: 1121110**

Art. No.: 1122105



Art. No.: 1122106

**Art. No.: 1122111****Art. No.: 1122107****Art. No.: 1122109****Art. No.: 1122108**

Art. No.: 1123216



RAVENOL Low Emission Truck

SAE 15W-40 | API CJ-4/SN | ACEA E7, E9, E11

Semi Synthetic multi grade truck engine oil with highest performance. For use in EURO 5 engines with exhaust systems (EGR, SCR, DPF, DPD, DPR), EURO 3 and EURO 4 engines. Enhanced performance and cleanness of the engines.

MB 228.31, Volvo VDS-4, Mack EO-O Premium Plus, Renault VI RLD 3, DFS 93K214, DFS 93K218, Cummins CES 20081, Ford WSS-M2C171-E, TATRA TDS 30/12, MAN M3575, MAN M 3477, MAN M 3271-1, MTU Typ 2.1, Caterpillar ECF-2/-3, JASO DH-2, Japan Ultra-Low PM Emission Diesel, EURO IV und EURO-V, U.S. EPA Tier 3 emissions regulation, Chrysler MS-10902, John Deer JDQ-78X Oxidations Test, DTFR 15C100 (MB 228.31)

Art. No.: 1123100



RAVENOL TRE Truck Resource Conserving

SAE 10W-30 | API FA-4

Semi-Synthetic Fuel Economy Longlife multigrade engine oil with an HTHS viscosity of between 2.9 cP and 3.2 cP which has been specially developed for the latest generation of turbodiesel commercial vehicle engines.

Cummins CES 20078, Mack EO-O PP (Premium Plus)

Art. No.: 1122112



RAVENOL Turbo-Plus SHPD

SAE 10W-30 | API CI-4/SL | ACEA E7, E5, E3, A3/B4

Mineral SHPD-motor oil for mixed fleet of diesel and gasoline engines also with turbochargers. Specially designed for extended oil change intervals.

Caterpillar ECF-2, TO-2; Cummins CES 20071, -72, -76, -77, -78; DAF; DDC 93K215; Deutz DQC III-10; Global DHD-1; JASO DH-1; Mack EO-N; MAN M 3275-1; MB 228.3; MTU Typ 2, MTU Typ 3; Renault RLD, Renault VI RLD-2; Volvo VDS 3; YAMZ, DTFR 15B110 (MB 228.3)

Art. No.: 1123105



RAVENOL Formel Diesel Super

SAE 15W-40 | API CF-4 | ACEA E2, B4

High performance multi grade motor oil for diesel engines with or without turbo charger. Extended oil change intervals.

MB 229.1, MAN 271, ZF TE-ML 07C, VW 505 00, Allison C4, Cat. TO-2, VOLVO VDS, MACK EO-L, Renault RD-2/RLD, TEDOM 258-2 (61-0-0258)

Art. No.: 1123215



RAVENOL Formel Diesel Super

SAE 20W-50 | API CH-4, CF-4 | ACEA E2, A3/B4

High-alloyed HD engine oil formulated with selected additives for diesel engines with or without turbo charger.

Allison C4; Cat. TO-2; MAN 271; MB 228.1; Volvo VDS; VW 505 00

Art. No.: 1123220



RAVENOL Spezial Diesel

API CD | ACEA B2

Multigrade motor oil for diesel engines with and without turbo charging. All year lubrication at different conditions.

CCMC G4, MB 227.1, MIL-L-46152 B, MIL-L-2104 D

Art. No.: 1113310 SAE 10W-30
Art. No.: 1113311 SAE 15W-40



RAVENOL Turbo-Plus SHPD

SAE 15W-40 | API CI-4+/SL | ACEA E7, A3/B4

Mineral SHPD-motor oil for mixed fleet of diesel and gasoline engines also with turbochargers. Specially designed for extended oil change intervals.

MB 228.3, MB 229.1, MAN M3275-1 (Multigrades), Volvo VDS-3, MTU Typ 2, STEYR Motor GAZ 560, YaMZ, Cummins CES 20076, -77, -78, Renault RLD/RLD-2, ZF TE-ML 07C, Scania LDF-2, TEDOM 258-3 (61-0-0258), JASO DH-1 (D049RAV123), Deutz DQC III-10, Global DHD-1, Mack EO-M, EO-M Plus, IVECO, Allison C4, Caterpillar TO-2, John Deere JDQ 78A, DTFR 15B110

Art. No.: 1123115



RAVENOL Turbo-Plus SHPD

SAE 20W-50 | API CI-4, SL/CF | ACEA E7, A3/B4

Mineral SHPD-motor oil for mixed fleet of diesel and gasoline engines also with turbochargers. Specially designed for extended oil change intervals.

Allison C4; Caterpillar ECF-1a, ECF-2; Cummins CES 20071, -72, -76, -77, -78; DDC 93K215; Deutz DQC III-10; Global DHD-1; JASO DH-1; Mack EO-M Plus; MAN M 3275-1; MB 228.3, MB 229.1; MTU Type 2, Type 3; Renault VI RLD, RLD-2; Volvo VDS-3, DTFR 15B110 (MB 228.3)

Art. No.: 1123120



RAVENOL Formel Diesel Super

SAE 10W-30 | API CF-4/CF | ACEA E2, B4

High-alloyed HD motor oil formulated with selected additives for diesel engines with or without turbo charger. Extended oil change intervals.

MB 228.1, VW 505 00, MAN 271, Volvo VDS, MTU Typ 2, ZF TE-ML 07C, Cat. TO-2, Allison C4

Art. No.: 1123205



RAVENOL Super Truck

SAE 10W | API CF-4 | ACEA E2, B4

High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger.

MB 228.0, MAN 270, MTU Type 1, VOITH DIWA

Art. No.: 1123710



RAVENOL Super Truck

SAE 20W-20 | API CF-4 | ACEA E2, B4

High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger.

MB 228.0

Art. No.: 1123715



RAVENOL Super Truck

SAE 30 | API CF-4/SG | ACEA E2, B4

High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger.

MB 228.0, MAN 270, ZF TE-ML 02C, 02H, 03A, 03C, 04B, 07F, MTU Typ 1, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104 D

Art. No.: 1123720



RAVENOL Super Truck

SAE 40 | API CF-4/SG | ACEA E2, B4

High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger.

MB 228.0, MB 235.12, MAN 270, ZF TE-ML 02H, 04A, 04B, MTU Typ 1, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104D

Art. No.: 1123725



RAVENOL Super Truck

SAE 50 | API CF-4/SG | ACEA E2, B4

High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger.

MB 228.0, ZF TE-ML 04B, 04E, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104D

Art. No.: 1123726



RAVENOL Standard Truck

SAE 10W | API CF/SF | ACEA E2, B4

Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants.

MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, MTU Type 1, Voith Retarder A, Voith DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D

Art. No.: 1123610



RAVENOL Standard Truck

SAE 30 | API CF/SF

Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants.

MTU Type 1 (DDC BR 2000 & 4000), MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D

Art. No.: 1123620



RAVENOL Standard Truck

SAE 40 | API CF/SF

Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants.

MTU Type 1 (DDC BR 2000 & 4000), MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D

Art. No.: 1123625

Agricultural machinery oils

RAVENOL lubricants are specially customised to meet the diverse needs of the farming sector.

Many tractors use various oil circuits for their engines, gearboxes and hydraulics, in a similar way to cars. The requirements and specifications are therefore also similar.

There are also particularities. Tractors with powershift transmissions and older tractors in particular have a common oil circuit for the transmission, rear axle and hydraulics, with wet multi-plate clutches running in the oil bath. This results in special requirements that cannot be met with standard oils. For such machines, a Super Tractor Oil Universal (STOU) is generally used, which fulfils the requirements of axle and gear oils (API GL-4 with limited slip (LS) additives), engine oil and those of a hydraulic oil. Universal Tractor Transmission Oils (UTTO oils), on the other hand, are only suitable for transmissions, wet brakes and hydraulics, not for the engine.





RAVENOL STOU

SAE 10W-30 | API SF/CG-4, GL-4,
HLP ISO VG 68 | ACEA E3

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions, hydraulic systems and compressors.

Engine Oil: SAE 10W-30, API CG-4/SF, ACEA E3, MB 227.1, MB 228.1, MB 228.3, New Holland / Ford ESN-M2C-134 B/C/D, -159B/86B, MIL-L-2104 D, DTFR 15B110 (MB 228.3); Transmission Oil: SAE 80W, API GL-4, Allison C-4, Caterpillar TO-2, ZF TE-ML 03A, 05K, 06B, 07B, 07D, MAN 270; Hydraulic Oil: HLP ISO VG 68; Special Tractor Oil: John Deere J 27, Massey-Ferguson M1135, M1139, M1144; Compressor Oil: Holman Compair Kompressor, Atlas Copco Kompressor

Art. No.: 1310100



RAVENOL STOU

SAE 15W-30 | API CE/SF, GL-4, HLP ISO VG
68 | ACEA E1/E2

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems.

SAE 80W, API GL-4, MIL-L-2105, Allison C4, Caterpillar TO-2, ZF TE-ML 06B, 07B, HLP ISO VG 68, Vickers-Pumpentest, Ford-Pumpentest, Denison HF 2, John Deere J27 A, J20 C/D, Ford NH 024C, 324B, 540B, Massey-Ferguson M 1127, M 1139, M 1144, Case International J I, Case MS 1118/1209/1206, FIAT AF 87, International Harvester B6, Holman Compair Kompressor, Atlas Copco Kompressor

Art. No.: 1310112



RAVENOL STOU

SAE 5W-30 | API GL-4, API CG-4/SF |
ACEA E2

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems.

MB 227.1, MB 228.1, MB 228.3, John Deere J27, Massey Ferguson M 1139 / M 1144 / M 1145, Allison C4, Caterpillar TO-2, MIL-L-2104D, ZF TE ML 06A, 06B, 06C, 06D, 07B, Ford ESN-M2C 159B

Art. No.: 1310108



RAVENOL STOU

SAE 15W-40 | API SF/CE/CF-4, GL-4 |
ACEA E1, CCMC G2/D4

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems.

Ford M2C-159C, MF M-1143 / 1144, ZF TE-ML 06B, 07B, Allison C4, Cat. TO-2, Ford M2C 86A/134D, John Deere J 27, NH 420A / NH 410B, MB 227.1

Art. No.: 1310113



RAVENOL STOU

SAE 10W-40 | API SF, CG-4, GL-4,
HVLP ISO VG 68-100 | ACEA E3

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems.

Engineoil: MB 227.1, MB 228.1, MB 228.3, New Holland NH 410B, Ford ESN-M2C-134 B/C/D, Ford ESN-M2C-159 B/C, MIL-L-2104 D, DTFR 15B110 (MB 228.3); Transmissionoil: SAE 80W, 85W, 80W-90, 85W-90, API GL-4, Allison C-4, Caterpillar TO-2, ZF TE-ML 06A, 06B, 06C, 06D, 07B, MAN 271; Special Tractor Oil: John Deere J20C/D, J27, Massey-Ferguson M1139, M1144, M1145, CASE IH-MS 1209, FENDT KDM 41.2011, MAT 3525; Compressor Oil: Holman Compair compressor; Atlas Copco compressor

Art. No.: 1310111



RAVENOL STOU

SAE 20W-40 | API SF/CF-4, GL-4/CG-4 |
ACEA E3

Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems.

Ford M2C-159C, MF M-1143 / 1144, ZF TE-ML 06B, 07B, Allison C4, Cat. TO-2, Ford M2C 86A/134D, John Deere J 27, NH 420A / NH 410B, MB 227.1

Art. No.: 1310114



RAVENOL CATOEL TO-4

API CF, MT-1

Specific oil for construction vehicles and tractor vehicles.

Caterpillar TO-4, TO-4M, Allison C4, Komatsu KES 07.868.1 (2002), Eaton Fuller, ZF TE-ML 03C, 07F (ZF001852)

Art. No.: 1310610 SAE 10W
Art. No.: 1310613 SAE 30
Art. No.: 1310614 SAE 40



RAVENOL CATOEL TO-4

API CF, MT-1

Specific oil for construction vehicles and tractor vehicles.

Caterpillar TO-4, Allison C4, Komatsu Micro Clutch, Eaton Fuller, ZF TE-ML 03C, 07F

Art. No.: 1310615 SAE 50
Art. No.: 1310616 SAE 60



RAVENOL Getriebeöl UTTO

API GL-4

Mineral gearoil for use in hydraulic and transmission systems of tractors.

ZF TE-ML 03E, 05F, 06K, 17E, 21F, HVLP (DIN 51524 Teil 3), John Deere J 20 C, J21A, Ford ESN-M2C 86B/C/134 D, Massey Ferguson M 1141/M 1143/M 1145, Case IH-MS 1206/1207, Caterpillar TO-2, SDFG OT-1891A, Allison C-4, Volvo B6M WB 101 (BM Valmet, AWB Achsen), Renault 180596, MAT 3505/3506/3525, NH 410B, White Farm (AGCO) Q- 1802/-182616, Deutz-Allis AC Power Fluid 821 XL

Art. No.: 1310700



RAVENOL UTTO Synthetic

API GL-4 | DIN 51524-3

Syntetic ombined transmission and hydraulic oil on the basis of solvent refined base oils. Suitable for wet brakes of load change couplings and minor drives.

Allison C4, Caterpillar TO-2, CNH 410 B, CNH MAT 3506, CNH MAT 3525, CNH MS 1206, CNH MS 1210, Deutz-Allis AC Power Fluid 821 XL, Ford ESN-M2C 86 B, Ford ESN-M2C-134 D, John Deere J20C, John Deere J21A, Massey Ferguson CMS M1135, Massey Ferguson CMS M1141, Massey Ferguson CMS M1143, Massey Ferguson CMS M1145, Renault 180596, SDFG OT-1891A, VOLVO B6M WB 101 (BM Valmet AWB Achsen), White Farm (AGCO) Q-1802, White Farm (AGCO) Q-182616, ZF TE-ML 03E, ZF TE-ML 05F, ZF TE-ML 06K, ZF TE-ML 06R, ZF TE-ML 06S, ZF TE-ML 17E;ZF TE-ML 21F

Art. No.: 1310712



RAVENOL UTTO CVT Fluid

SAE 80W | API GL-4

Mineral gearoil for use in hydraulic and transmission systems of tractors.

Allison C4, Argo VT-DRIVE, Case ICH CVXDrive, Case IH-MS 1206, Case IH-MS 1207, Case IH-MS 1209, Caterpillar TO-2, CNH MAT 3505, CNH MAT 3525, CNH MAT 3540, Deutz-Fahr (SDF) T3500 CVT, Deutz-Fahr (SDF) T5400 CVT, Fendt Vario CVT Transmissions, Ford ESN-M2C-134 D, Ford ESN-M2C 86 C, John Deere J20C, Kubota – UDT Fluid, Massey Ferguson M1141, Massey Ferguson M1143, Massey Ferguson M1145, New Holland CVT, NH 410B, Sauer Sunstrand/ Danfoss (hydrostatic trans fluid), Sperry Vickers/ Eaton M2950S/I-280S, Valtra G2-08, VOLVO VDS CVT Getriebe, VOLVO WB 101, ZF TE-ML 03E, ZF TE-ML 05F, ZF TE-ML 06E, ZF TE-ML 06F, ZF TE-ML 06K, ZF TE-ML 17E, ZF TE-ML 21F

Art. No.: 1310715

MOTOBIKE

Since they were invented, motorbikes have been performing in ways that no other vehicle can do. The feeling of freedom and speed that a two-wheeler offers is unparalleled and can hardly be experienced with such intensity in a car.

The high performance engines of modern bikes such as Ducati and Honda often get twice the power out of the same cubic capacity compared with modern passenger car engines! Bikes can do this thanks to extremely high revolutions per minute! However, higher revolutions also mean higher operating temperatures. Therefore, at fully capacity temperatures of up to 350°C can arise in certain areas of the engine. The oxidation value, i.e. the ageing of the oil, increases drastically with rising temperatures. Above the temperature of 60°C, the service life of the oil reduces by 50% with every additional temperature increase of 10°C! It's not only the high operating temperatures, but also the extreme engine performance that makes the engine work harder to protect the engine components from wear and sludge formation while simultaneously guaranteeing perfect transmission and clutch performance.

RAVENOL has developed its Racing 4-T Motobike series using our USVO® technology, specifically to meet these huge challenges. These oils offer significantly better properties than conventional base oils, as they consist exclusively of synthetic base oils from Group 4 & 5, known as polyalphaolefins (PAO) and ester oils. Their low-temperature properties and significantly increased oxidation stability outweigh the performance that a base oil can offer on these points. The latter in particular ensures that the oil maintains its excellent performance throughout the entire oil change cycle and guarantees consistently high lubrication until the oil is changed. USVO® Racing 4-T Motobike lubricants also benefit from much higher shear stability. This means that they can keep their viscosity in the optimal range, regardless of the respective operating temperature. The USVO® technology therefore guarantees very high pressure absorption and an extremely stable lubrication film, which is reflected in the excellent wear protection qualities and in the improved performance.



**RAVENOL Racing
4-T Motobike**
SAE 10W-40 | API SN | JASO MA2

Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis.

JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.

Art. No.: 1171106



**RAVENOL Racing
4-T Motobike**
SAE 10W-50 | API SN | JASO MA2

Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis.

JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.

Art. No.: 1171107



**RAVENOL Racing
4-T Motobike**
SAE 10W-60 | API SN | JASO MA2

Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis.

JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Husqvarna; Kawasaki; KTM; Moto-Guzzi; MV Agusta; Suzuki; Triumph; Yamaha; etc.

Art. No.: 1171108



**RAVENOL Racing
4-T Motobike**
SAE 15W-50 | API SN | JASO MA2

Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis.

JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.

Art. No.: 1171109



Motorbikes and accessories

RAVENOL motorbike products have been specially developed for motorbike riders and their challenging machines. Specifically tailored additives always offer optimal lubrication, even when the riding conditions are not favourable. Many of our oils for motorcycles, scooters and quads are listed by the Japan Lubricating Oil Society (JALOS), which was founded by the Japanese Automotive Standard Organization (JASO).



RAVENOL Motobike 4-T Ester

SAE 5W-30 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1171101



RAVENOL Motobike 4-T Ester

SAE 10W-30 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1172111



RAVENOL Motobike 4-T Ester

SAE 10W-40 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1172112



RAVENOL Motobike 4-T Ester

SAE 10W-50 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1171103



RAVENOL Motobike 4-T Ester

SAE 5W-40 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1171102



RAVENOL Motobike 4-T Ester

SAE 10W-60 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1171104



RAVENOL Motobike 4-T Mineral

SAE 15W-40 | API SN | JASO MA2

High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1173121



RAVENOL Motobike 4-T Ester

SAE 15W-50 | API SN | JASO MA2

High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1172113



RAVENOL Motobike 4-T Mineral

SAE 20W-40 | API SN | JASO MA2

High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1173123



RAVENOL Motobike 4-T Mineral

SAE 20W-50 | API SN | JASO MA2

High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet or oil lubricated clutches.

JASO MA2 T903:2016, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Art. No.: 1173122



RAVENOL Motobike 4-T Standard

SAE 20W-50 | API SL | JASO MA2

High performance mineral motor oil to meet the demanding requirements of motorcycle engines with wet or oil lubricated clutches.

Art. No.: 1173133



RAVENOL Fork Oil Ultra Light 2,5W, Light 5W

Fully synthetic fork oil based on ester oils for all forks of high performance motorcycles, especially for SHOWA and USD-forks.

Aprilia, BMW, Ducati, Honda, Kawasaki, Moto-Guzzi, Suzuki, Triumph, Yamaha

Art. No.: 1182101 SAE 2,5W
Art. No.: 1182102 SAE 5W



RAVENOL Fork Oil Medium 10W, Heavy 15W, Very Heavy 20W

Mineral oil based fork oil for all forks of road and off-road motorcycles.

Aprilia, BMW, Ducati, Honda, Kawasaki, Moto-Guzzi, Suzuki, Triumph, Yamaha

Art. No.: 1182104 SAE 10W
Art. No.: 1182105 SAE 15W
Art. No.: 1182106 SAE 20W



RAVENOL Motogear

SAE 75W-90 | API GL-4

Fully synthetic low friction gear oil with especially formulation for extremely stressed manual transmission and rear axles.

Art. No.: 1250050



RAVENOL Motobike 4-T Standard

SAE 10W-40 | API SN | JASO MA2

High performance mineral motor oil to meet the demanding requirements of motorcycle engines with wet or oil lubricated clutches.

Art. No.: 1173134



RAVENOL Motobike V-Twin Fullsynth.

SAE 20W-50 | JASO MA2

High performance 3 in 1 fully synthetic lubricant for motor, gear and crankshaft. Specifically designed for use in cruiser and chopper motorcycles.

BMW Cruiser Motorcycles, Harley Davidson 62600005, 62600031, Honda 08C35-A251M01, 08C35-A251L01, Indian Motorcycles, Victory Motorcycles, Yamalube LUB20W50AP04, LUB20W50AP12, Triumph Motorcycles, Moto Guzzi Motorcycles, Suzuki V-Twin Motor Oil

Art. No.: 1171105



RAVENOL Motobike V-Twin Mineral

SAE 20W-50 | API SL | JASO MA2

High performance 3 in 1 mineral lubricant for motor, gear and crankshaft. Specifically designed for use in cruiser and chopper motorcycles.

BMW Cruiser Motorcycles, Harley Davidson 62600005, 62600031, Honda 08C35-A251M01, 08C35-A251L01, Indian Motorcycles, Victory Motorcycles, Yamalube LUB20W50AP04, LUB20W50AP12, Triumph Motorcycles, Moto Guzzi Motorcycles, Suzuki V-Twin Motor Oil

Art. No.: 1173105



RAVENOL Motogear

SAE 80W-90 | API GL-4

Transmission oil based on mineral oil with effective additives for manual transmissions.

Art. No.: 1250055



RAVENOL Motogear

SAE 80W-90 | API GL-5

Hypoid transmission oil based on mineral oil with special high pressure additions for manual transmissions.

Art. No.: 1250070



RAVENOL Motogear

SAE 10W-30 | API GL-4

Semi-synthetic special multigrade gear oil, especially for air and water-cooled 2- and 4- stroke machines with a separate gear lubrication.

YAMAHA

Art. No.: 1250100



RAVENOL Motogear

SAE 10W-40 | API GL-4

Semi-synthetic special multigrade gear oil based on synthesis technology and special esters for easily switching also under extremely hard operating conditions.

Art. No.: 1250101



RAVENOL Scooter Gear Oil

SAE 80W-90 | API GL-5/GL-4

Synthetic-based scooter gear oil with with special effective high-pressure additives for manual transmissions.

MIL-L-2105 D

Art. No.: 1222202



RAVENOL QUAD 4T

SAE 10W-40 | API SL | JASO MA2

Semi-synthetic motoroil for Quads and ATV.

4-stroke Quad-engines of KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI, HONDA, u.a.

Art. No.: 1152160



RAVENOL Air Filter Oil Spray

Spray oil for all foam material air filters of off-road and street motorcycles and Quads.

Art. No.: 1360301



RAVENOL Air Filter Clean Spray

Degreases and cleans all foam material air filters of off-road and street motorcycles and Quads thoroughly.

Art. No.: 1360302



RAVENOL Kettenöl Off Road Spray

Especially for chain lubrication of off-road motorcycles and Quads.

Art. No.: 1360303



RAVENOL Quadrogear

Synthetic special axle oil developed for Quads and ATV with an integrated wet brake.

KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI

Art. No.: 1250200



RAVENOL Motobike System Cleaner Shot

Fuel additive with high levels of cleaning and anti-corrosion additives for all motorcycle gasoline injection engines, which increases the performance of the engine.

Art. No.: 1390401



RAVENOL Motobike Engine Cleaner Shot

Highly effective cleaning concentrate for the oil circuit for efficient cleaning of all motorcycle engines (with and without catalytic converter).

Art. No.: 1390402



RAVENOL Kettenöl Reiniger Spray

Degreases and cleans motorcycle chains as well as the chains of other vehicles thoroughly.

Art. No.: 1360304



RAVENOL Carb Reiniger Spray

Cleans carburetors in the suction and throttle valve area thoroughly.

Art. No.: 1360305



RAVENOL Ketten-Spray

Lubricating spray for chains.

Art. No.: 1360032

2-stroke and 4-stroke petrol engines

RAVENOL offers various 2-stroke and 4-stroke engine oils for a wide variety of applications. The special formulations, such as for rollers, chainsaws or even snowmobiles always take into account the individual requirements in order to always guarantee the best possible lubrication results.



RAVENOL MPS Motocross Powersynth 2T

API TC, ISO-L-EGD | JASO FD

High quality fully synthetic two-stroke engine oil with special esters and Polyisobutylene (PIB) for air – and water cooled 2-stroke engines. Suitable for separate lubrication systems and self-mixing systems.

KTM, Beta, GasGas, Husqvarna, Yamaha, Kawasaki, Honda, Suzuki

Art. No.: 1144110



RAVENOL Selfmix 2T

API TB, ISO-L-EGB | NMMA TC-W, JASO FB

Mineral motor oil for self-mixing systems and separate lubrication. Recommended mixture: 1:50.

Husqvarna, Stihl, Partner, McCulloch, Jonsered, Oleo-Mac, Poulan, Maruyama, Dolmar, Oregon, Makita, Ryobi, Hitachi

Art. No.: 1153100



RAVENOL 2-Takt-Öl NOT SELF MIX

API SA

Mineral non-miscible motor oil for 2-stroke engines. For use at low and high temperatures, guarantees functional lubrication.

Art. No.: 1153101



RAVENOL Scooter Fullsynth. 2-Taktöl

API TD, ISO-L-EGD | JASO FD

Fully synthetic miscible motor oil with special esters and Polyisobutylene (PIB) for 2-stroke engines with high rotation speed for scooters. Suitable for separate lubrication and self-mixing systems. Recommended mixture: max. 1:100.

Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha

Art. No.: 1151150



RAVENOL Vollsynthetisches 2-Taktöl VSZ

API TD, ISO-L-EGD | JASO FD

High quality fully synthetic two-stroke engine oil with special esters and Polyisobutylene (PIB) for air – and water cooled 2-stroke engines. Suitable for separate lubrication systems and self-mixing systems.

2-stroke SCOOTER, high revving engines (over 6000 rpm), Piaggio SI

Art. No.: 1151100



RAVENOL Scooter Teilsynth. 2-Taktöl

API TC, ISO-L-EGC | JASO FC

High quality "self-mixing" two-stroke motor oil with special esters and Polyisobutylene (PIB) for 2-stroke engines and scooters. Low Smoke. Suitable for separate lubrication and self-mixing systems. Recommended mixture: max. 1:75.

Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha

Art. No.: 1152150



RAVENOL Scooter Mineral 2-Taktöl

API TB, ISO-L-EGB | JASO FB

Mineral motor oil for 2-stroke gasoline engines and scooters. Suitable for separate lubrication and self-mixing systems. Recommended mixture: max. 1:50.

Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha

Art. No.: 1153150



RAVENOL Scooter 4-Takt Fullsynth.

API SP, SN Plus

Fully synthetic high performance green colored motor oil on the Basis of PAO for 4-stroke small engines.

Yamaha, Honda, Aprilia, Suzuki, Kawasaki, Peugeot, Arctic Cat, Bombardier, Argo, Dinli, Polaris

Art. No.: 1151155



**RAVENOL Scooter
4-Takt Teilsynth.**

SAE 10W-40 | API SL

Semi-synthetic high performance green colored motor oil for 4-stroke small engines.

Yamaha, Honda, Aprilia, Suzuki, Kawasaki, Peugeot, Arctic Cat, Bombardier, Argo, Dinli, Polaris, Piaggio

Art. No.: 1152155



**RAVENOL Scooter
4-T 10W-30**

SAE 10W-30 | JASO MB

Synthetic 4-stroke engine oil with specially selected additives, designed for demanding use in scooters and motorcycles.

Art. No.: 1152156



**RAVENOL Snowmobiles
Fullsynth. 2-Takt**

API TD, ISO-L-EGD | JASO FD

Fully synthetic motor oil for snowmobiles. Recommended mixture: max. 1:100.

Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Rotax 253

Art. No.: 1151310



**RAVENOL Schneefräse
4-Takt**

SAE 0W-30 | API SL | ACEA A3/B4

Fully synthetic 4-stroke motor oil, especially for 4-stroke snow blowers.

Ariens, Briggs&Stratton, Caiman, Canadiana, Craftsman, CubCadet, Honda, Husqvarna, McCulloch, Murray, MTD, Partner, Snapper, Stiga, Swisher, TORO, White Outdoor, Yard-Man

Art. No.: 1151106



**RAVENOL Schneefräse
4-Takt**

SAE 5W-30 | API SM/SL | ACEA A5/B5

High performance fully synthetic 4-stroke motor oil, especially for 4-stroke snowblowers.

Ariens, Briggs&Stratton, Caiman, Canadiana, Craftsman, CubCadet, Honda, Husqvarna, McCulloch, Murray, MTD, Partner, Snapper, Stiga, Swisher, TORO, White Outdoor, Yard-Man

Art. No.: 1151105



**RAVENOL 4-Takt
Gardenoil**

SAE 30 | API CD/SF

Mineral monograde 4-stroke motor oil specially developed for lawn-mower.

MB 227.0, MIL-L-46152 B, MIL-L-2104 D, Husqvarna, Honda, Stihl, Oleo-Mac, CCMC G4

Art. No.: 1113301



**RAVENOL Snowmobiles
Teilsynth. 2-Takt**

API TC, ISO-L-EGC | JASO FC

Semi-synthetic motor oil for snowmobiles. Recommended mixture: max. 1:75.

Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris

Art. No.: 1152310



**RAVENOL Snowmobiles
Mineral 2-Takt**

API TB, ISO-L-EGD | JASO FB

Mineral motor oil for snowmobiles. Recommended mixture: max. 1:50.

Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris

Art. No.: 1153310



**RAVENOL Snowmobiles
4-Takt Fullsynth.**

API SN

Fully synthetic 4-stroke motor oil, especially for 4-stroke snowmobiles.

Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris

Art. No.: 1151311

Marine oils

High-quality RAVENOL lubricants deliver excellent performance – and not just on land. RAVENOL marine and outboard oils are tailored to the specific nature of water sports, with special base oils and additives, and therefore fulfil all the requirements that leisure and sports boat engines need from a modern lubricant.

As a long-term partner of the Racing Team Germany which is actively represented in several important water sports series, RAVENOL puts its first-hand experience into the development of its oils. The opportunity to test lubricants under extreme racing conditions enables constant further development and thereby guarantees the best possible performance of the oils.

Our outboard oils also have NMMA (= National Marine Manufacturers Association) registration. We thereby differentiate between 2-stroke (TC-W3®) and 4-stroke (FC-W®) engine oils.



RAVENOL Marine Performance

SAE 15W-40 | API CK-4/CJ-4/SN | ACEA E9, E7

All-year SHPD engine oil for marine diesel engines with or without turbo charging with high wear protection.

Volvo VDS-4.5; Mack EOS-4.5; Renault VI RLD-3, Caterpillar; Detroit Diesel; IVECO; MAN; Mercruiser; MTU; NANNI Diesel; PERKINS; SKL; Steyr; SULZER; VETUS DEUTZ; YANMAR, Scania LDF

Art. No.: 1163101



RAVENOL Marineoil Petrol

API SL

Motor oil for use in marine gasoline engines.

VOLVO Penta AB, Mercruiser, Yanmar, Kohler

Art. No.: 1162200 SAE 10W-40
Art. No.: 1163200 SAE 15W-40
Art. No.: 1163210 SAE 20W-50



RAVENOL Marineoil Petrol

SAE 25W-40 | NMMA FC-W (CAT)

Modern mineral based high additive treated marine engine oil. It is suitable for inboard and outboard marine gasoline engines.

NMMA FC-W (CAT)® FC-43514X, NMMA FC-W, Yamaha, Honda, Suzuki, YANMAR, Mercruiser, VOLVO Penta AB, Kohler, Johnson, Mercury, Evinrude

Art. No.: 1163220



RAVENOL Marineoil Petrol Synthetic

SAE 25W-40 | API SL | ACEA A3/B4

Synthetic motor oil for use in marine gasoline engines.

VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, YANMAR, Detroit Diesel, SULZER, SKL

Art. No.: 1162115



RAVENOL Marineoil Diesel SHPD

SAE 10W-40 | CI-4/CF | ACEA E7/B4

Motor oil for use in marine diesel engines.

VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL, Scania LDF-2

Art. No.: 1162100



RAVENOL Marineoil Diesel SHPD

SAE 15W-40 | API CI-4/CF | ACEA E7/B4

Motor oil for use in marine diesel engines.

Volvo VDS-3, VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL

Art. No.: 1163100



RAVENOL Marineoil Diesel SHPD

SAE 20W-50 | API CI-4 | ACEA E7/B4

Motor oil for use in marine diesel engines.

Volvo VDS-3, VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL

Art. No.: 1163110



RAVENOL Marineoil Diesel SHPD

SAE 25W-40 | API CF

Modern mineral based high additive treated marine engine oil with special additives. It is suitable for inboard marine diesel engines

VETUS DEUTZ, MTU, Steyr, Caterpillar, MAN, PERKINS, NANNI Diesel, Detroit Diesel, Mercruiser, IVECO, SKL, SULZER, VOLVO PENTA

Art. No.: 1163215



RAVENOL Marineoil Diesel SHPD Synthetic

SAE 25W-40 | API CI-4/CF | ACEA E7, B4

Synthetic engine oil with unconventional and HC basic oils, synthetic components and modern additives for the use in marine diesel engines.

VETUS DEUTZ, MTU, Steyr, Caterpillar, MAN, PERKINS, NANNI Diesel, Detroit Diesel, Mercruiser, IVECO, SKL, SULZER, VOLVO PENTA, Yanmar

Art. No.: 1162105



RAVENOL Marine Gear Lube

SAE 80W-90 | API GL-5

Gear oil for use in marine transmissions.

OMC, Volvo Penta, Mercury, Mercruiser, Yanmar

Art. No.: 1233100



RAVENOL Marine PowerTrim & Steering Fluid

Hydraulic oil for lubricating hydraulics in marine equipment.

OMC, Volvo Penta, Mercruiser, Yanmar

Art. No.: 1234100



RAVENOL Outboardoil 2T Fullsynth.

API TD | NMMA TC-W3

Fully synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:100.

NMMA TC-W3® RL-90001G, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva

Art. No.: 1151200



RAVENOL Marine Gear Fullsynth. MGF

SAE 75W-90 | API GL-4, GL-5

Fully synthetic high performance transmission oil which can be preferably used in the marine sector for lubricating boat and ship transmissions (in- and outboard) for stern- and reverse gear units as well as for Z-drives when a synthetic GL-5/ GL-4 transmission oil is required.

ZF TE-ML 12B/16F/17B, Honda, Suzuki, OMC, VOLVO PENTA, Mercury, Mercruiser, YANMAR, Yamaha

Art. No.: 1231100



RAVENOL VPG

SAE 75W-90 | API GL-5

Fully synthetic axle drive oil based on the latest fully synthetic components for marine vehicles. Suitable for use in heavy-duty axle drives from VOLVO Penta and marine transmissions from IPS and Aquamatic.

For DPH/DPR Gearboxes of VOLVO Penta and for IPS and Aquamatic transmissino (DPR, DPR-A, DPR-B, DPS-A, DPX, DPX-A, DPX-C, DPX-R, DPX-S, DPX-S1, SX-A, SX-C, SX-C1AC, SX-C1, SX-C2, SX-C3AC, SX-C3, SX-C2AC, SX-CLT1, SX-CLT2, SX-M, SX-M1, SX-MAC, SX-MACLT, SX-MDA, SX-MDB, SX-MHP, SX-MDC, SX-MHP1, SX-MHPH, SX-MLT, SX-S, SX-RT2, SX-RT1, SX-R2, SX-R1, SX-R, SX-MTD3, SX-MTD, SX-CT, SX-CLT, SX-CT1, SX-CT2, SX-SLT, SX-ST, DPH-A, DPH-B, DPH-AP, DPH-AS, DPH-BP, DPH-BS, IPS-A, IPS-B, IPS-C, D11A-D (IPS), D4-300D-F, D4-300A-F, D3-200A-F, D3-140A-F, D6-435D-E, D3-220I-F, D4-260A-F, D3-200I-F, D4-225A-F, D6-310D-E, D3-220A-F, D3-170A-F, D13B-G MP, D6-280A-E, D4-260D-F, D6-310A-E, D6-330A-E, D6-370D-E, D3-170I-F, D6-370A-E, D6-330D-E, D13-800IPS EVC-E2-B, D13-900IPS EVC-E2-B)

Art. No.: 1231101



RAVENOL Outboardoil 2T Teilsynth.

API TC | NMMA TC-W3

Semi-synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:75.

NMMA TC-W3® RL-29018F, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva

Art. No.: 1152200



RAVENOL Outboardoil 2T Mineral

API TC | NMMA TC-W3

Mineral specifically formulated Outboard 2-stroke motor oil. Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:50.

NMMA TC-W3® RL-90000G, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva

Art. No.: 1153200



RAVENOL Outboardoil 4T

SAE 10W-30 | API SM | NMMA FC-W (CAT)

Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT).

NMMA FC-W (CAT)® FC-51534X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan

Art. No.: 1153203



**RAVENOL
Outboardoil 4T**

SAE 10W-40 | API SM | NMMA FC-W (CAT)

Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT).

NMMA FC-W (CAT)® FC-11298X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan

Art. No.: 1153204



**RAVENOL
Outboardoil 4T**

SAE 15W-40 | NMMA FC-W

Mineral specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W.

NMMA FC-W® FB-83138, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan

Art. No.: 1153205



**RAVENOL
Outboardoil 4T**

SAE 25W-40 | API SM | NMMA FC-W (CAT)

Mineral specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT).

NMMA FC-W (CAT)® FC-43517X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan

Art. No.: 1153207



**RAVENOL Watercraft
4-Takt**

API SL | NMMA FC-W

Synthetic motor oil for 4-stroke outboard engines in fresh water cooled 4-stroke water vehicle engines.

Art. No.: 1151211



**RAVENOL
MARINE 830 TBN8**

API CC | MIL-L-2104A

Mineral diesel engine oil used in slowly running crosshead diesel engines and as an engine oil in easy loaded engines of the coasting and inland navigation.

DEF 2101D

Art. No.: 1163001 SAE 30
Art. No.: 1163002 SAE 40



**RAVENOL
MARINE 1230 TBN12**

API CF | MIL-L-2104C

Mineral diesel engine oil used for high and medium speed marine diesel engines with or without turbo-charging. This oil can also be used in shipboard transfer boxes due to its load-carrying properties.

DEF-STAN 91-22/2

Art. No.: 1163010 SAE 30



**RAVENOL Watercraft
Fullsynth. 2-Takt**

API TD, ISO-L-EGD | JASO FD, NMMA TC-W3

Fully synthetic motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:100.

NMMA TC-W3® RL-29019G

Art. No.: 1151210



**RAVENOL Watercraft
Teilsynth. 2-Takt**

API TC, ISO-L-EGC | JASO FC, NMMA TC-W3

Semi-synthetic motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:75.

NMMA TC-W3® RL-30010H

Art. No.: 1152210



**RAVENOL Watercraft
Mineral 2-Takt**

API TC, ISO-L-EGB | JASO FB, NMMA TC-W3

Mineral motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:50.

NMMA TC-W3® RL-29901H

Art. No.: 1153210



**RAVENOL
1240 TBN12**

API CF | MIL-L-2104C

Mineral diesel engine oil used for high and medium speed marine diesel engines with or without turbo-charging. This oil can also be used in shipboard transfer boxes on boats.

DEF-STAN 91-22/2

Art. No.: 1163011 SAE 40



**RAVENOL
1630 TBN16,
1640 TBN16**

API CF | MIL-L-2104C

Mineral diesel engine oil used for high and so-called «medium speed» marine diesel engines with or without turbo-charging. This oil can also be used in shipboard transfer boxes on boats.

DEF-STAN 91-22/2

Art. No.: 1163020 SAE 30
Art. No.: 1163021 SAE 40



**RAVENOL
Outboard Castor 2T**

Special two-stroke oil based on tried and tested castor oil plant technology, refined with ester synthetic additives for use in motor racing. It can be used in engines from 54 HP (125 cc) to 240 HP (700 cc).

VRP Racing Engines, Motorboat outboard motors exclusively for racing, 0-125 cc, 0-175 cc, 0-250 cc (2 cylinder Boxer engines 2 stroke), 0-350 cc (2 cylinders, 3 cylinders or 4 cylinder Boxer engines 2 stroke), 0-500 cc and 0-700 cc (4 cylinder Boxer engines 2 stroke)

Art. No.: 1159100

ATF Professional Line – Transmission Fluid Service with Equipment & Know-How from RAVENOL

With the RAVENOL ATF Professional Line as a service and workshop concept, we are able to provide all the options for a full transmission fluid service. The spectrum of services includes transmission rinsing and dynamic transmission fluid change in one workflow. It means that every workshop is in a position to carry out a professional transmission fluid service and to complement their existing range of services.

DYNAMIC EXCHANGER

The RAVENOL Dynamic Exchanger 2.0 reliably rinses and refills automatic transmissions (including CVT and DCT transmissions). Impurities are broken down and rinsed out, meaning that a full lubricant exchange is guaranteed.

UNIQUE ATF PRODUCT PORTFOLIO

The RAVENOL product portfolio of lubricants for transmissions covers the requirements of all vehicle and transmission manufacturers. The special formulations take into account all manner of requirements from the various transmission constructions. We always pay attention to ensure that the functionality and interplay of all transmission-related components are optimally tailored to one another. In the process, specific expertise concerning the transmission and concerning the RAVENOL Dynamic Exchanger 2.0 is passed on. In addition, our partners and customers receive plenty of tips and tricks as well as access to our extensive database in the RAVENOL partner and client area.

EXPERTISE from RAVENOL & HaynesPro®

One special thing that we do is to offer our partners and customers training on how to handle the Dynamic Exchanger. During the training, specific expertise concerning the transmission and the Dynamic Exchanger is passed on and applied. In addition, our partners and customers receive plenty of tips and tricks as well as access to the Haynes Pro® database, which takes the mechanics through the application, step by step.

ADVANTAGES

FOR WORKSHOPS AT A GLANCE

- Professional transmission cleaning and refilling in one step
- Comprehensive exchanger adapter set included in the delivery package
- RAVENOL customer service by making expertise available
- Provision of access rights to the HaynesPro® technical database
- Expansion of the skills on offer in the workshop thanks to the RAVENOL ATF Professional Line
- Availability of spare parts and other adapters is guaranteed worldwide

FOR CUSTOMERS AT A GLANCE

- Transmission cleaning and refilling from a single source
- Smoother gear changes and lower fuel consumption as excess slippage is avoided
- Optimal transmission maintenance through the professional use of the RAVENOL ATF Professional Line
- Optimal lubrication and reduced wear thanks to fresh transmission fluid from RAVENOL's portfolio of lubricants

ATF-FINDER

RAVENOL.DE

Unsere Empfehlungen:

Ihr Fahrzeug

Fabrikat: AUDI A3 (8P) 2.0 TDI 16V
 Model: 2.0 TDI 16V (2004-01 - 2008-01)
 Type:





Kühlsystem	8.6 (l)
Bremsanlage	1.0 (l)
Bremsanlage	1.15 (l)
Verteilergetriebe	0.9 (l)
Differenzial, Vierradantrieb, hinten	0.95 (l)
Kältemittel	525 ± 25 (g)



ATF Professional Line








Next Gen

DEVICE FEATURES

- Mobile service unit for automatic transmissions, including continuously variable transmissions (CVT) and dual clutch gears (DSG).
- Automatic oil flow regulation with dynamic exchange
- Multilingual and intuitive menu
- Individual process and device programming is possible
- Integrated RAVENOL ATF database
- Access to HaynesPro® database
- Suitable for using special cleaning products
- Control lights for status display
- Integrated thermal printer for logging vehicle and process data

NEW FEATURES

- Two gauge glasses (for fresh oil and old oil)
- Automatic rinsing and dynamic oil change functions
- Automatic oil flow direction recognition
- Improved management software

-  **Operating pressure:** up to 10 bar
-  **Powerful pump unit:** 7-8 l/min.
-  **Permitted ATF temperature:** 10 - 90 °C
-  **Power supply voltage:** 12-15 V DC (mobile power supply using the vehicle battery)
-  **Device measurements:** H:120 | B:60 | D:47
-  **Weight:** 100kg
-  **Various connection adapters** included in the packaging



ATF Professional Line

Specially developed for use in automatic transmissions, RAVENOL ATFs (automatic transmission fluids) guarantee smooth functions for all customary automatic transmissions, thanks to their special additives and inhibitions.



RAVENOL ATF M 9-G Serie

Synthetic ATF for the latest 9-speed Mercedes-Benz automatic transmissions (9G-tronic) for Mercedes-Benz cars.

A 002 989 06 03, ATF D971, Nissan 999MP-MTP10P, Nissan ATF Matic P

Art. No.: 1211139



RAVENOL ATF 5/4HP Fluid

Synthetic universal ATF (Automatic-Transmission-Fluid) for ZF automatic transmission (4HP and 5HP).

Alfa Romeo 20HP 14891900, ATF LT 71141, ATF LA 2634, BMW 8322 9407765, BMW 8322 9407807, Citroën/Peugeot AL4 PR 9736.22, Jaguar JLM 20237, Land Rover STC4863, Mercedes A 0019892203, Porsche 999.917.547.00, Renault DP0, VW/Audi G052162 A1/A2/A6, VW TL 52 162, ZF S671 090 170

Art. No.: 1212104



RAVENOL ATF 6HP Fluid

Synthetic ATF for ZF 6HP speed boxes. Backwards compatible for ZF 4- and 5-stroke passenger car ATF except 6HP26A61 in vehicles with AUDI W12 (only original VW G055162A2 blue) and of 6HP19X for AUDI Q7, 6HP19A, 6HP28AF (only original VW G060162A2 green).

ZF 6HP19, 6HP21, 6HP26, 6HP28, 6HP32, 6HP34, BMW 83220144137, ATF M1375.4, 83220142516, 83222305396 (ATF2), FORD MERCON SP XT-6-QSP (6R60, 6R75, 6R80), Jaguar C2C 8432, Land Rover TYK50 0050, VW/AUDI G 055005 A1/A2/A6, ZF S671 090 252/3/5

Art. No.: 1211112



RAVENOL ATF M 6-Serie

Synthetic ATF for 5-speed Mercedes-Benz automatic transmission.

MB 236.10 (A 001 989 21 03), Chrysler 52107891AA

Art. No.: 1212105



RAVENOL ATF M 9-Serie

Synthetic ATF for 7-speed Mercedes-Benz automatic transmission (NAG2V Sport).

MB 236.12, MB 236.10

Art. No.: 1211108



RAVENOL ATF M 9-FE Serie

Synthetic ATF for 7-speed ATF 7G-Tronic with ECO Stop-Start function of Mercedes-Benz (NAG2FE+).

MB A 001 989 78 03, MB A 001 989 77 03, ATF 7134FE, ATF 134FE, ATF 134ME

Art. No.: 1211127



RAVENOL ATF 8HP Fluid

Synthetic ATF for 8HP-series transmission of ZF and 6-speed automatic transmissions of 6HP-series for AUDI Q7.

BMW ATF 3+, BMW 83222305397 (until 02.2013 83222152426), BMW 83222289720, ATF L 12108, VW/AUDI G 060 162 A1/A2/A6, VW G 055 162, ZF S671 090 312, ZF TE-ML 11 9HP48, Land Rover LR023288 and LR023289, Mopar 68218925GA (former: 68157995AB), Fiat 9.55550-AV5, Acura 08200-9016A, Honda 08200-9017, Honda ATF Type 3.1

Art. No.: 1211124



RAVENOL ATF 9HP Fluid

Fully synthetic ATF on the basis of PAO, for the latest Generation of all 9 stroke automatic transmissions of ZF.

ATF L 12108; Acura 08200-9016 A, Acura ATF Type 3.0, BMW 83222305397 (bis 02.2013 83222152426), BMW 83222289720; Fiat 9.55550-AV5; Honda 08200-9017, ATF Type 3.1, Land Rover LR023288, LR023289; Mopar 68218925AA, 68157995AB; VW/AUDI G 060 162 A1/A2/A6; VW G 055 162; ZF S671 090 312, ZF TE-ML 11 9HP48, MB 236.82 (A 000 989 65 05)

Art. No.: 1211149



RAVENOL ATF Mercon LV Fluid

Synthetic ATF Automatic Transmission Fluid, which was specially developed for automatic transmissions of Ford.

MERCON® LV (License-No. MLV161101), Ford 1776431, Ford ATF C-ML5, Ford XT-10-QLVC, Ford WSS-M2C938-A, Motorcraft XT-10 DLV, Motorcraft XT-10-QLV

Art. No.: 1211137



RAVENOL DTF-1

Fully synthetic gear lubricant for the latest generation of electronically controlled active transfer box.

Land Rover IVK500010, ATF TF-0753, ATF TF-0870, MB 239.41 Torque-on-Demand (TOD) Transfer case in Type 167 GLE, Type 463 G-Class, Type 470 X-Class, Type 471 with engine OM642; Mopar 68049954AA for Borg Warner 44-40 transfer Box; Nissan 999MP-TF0870P, KLD22-00001EU for Transfer Case ATX90A Porsche 000.043.301.36 Cayenne 9PA/9PA1 955 / 957 (from 2002 to 2010) Transfer Case PL72 ATC (NV325), 000.043.305.63 Porsche Macan 95B (from 2014) and Cayenne 92A / 958 (Petrol-Motors from 2010 to 2018) Transfer Case Hang-On PL72 ATC; VW G052515A2 (former: G055515A2) for Transfer Case 0AD and 0BV for Touareg, Q7; VW G052536A2 for Transfer Case 0BU for Touareg, Amarok and Audi Q7; VW G052533A2 for Transfer Case 0C7 for Amarok; BMW DTF-1 83222409710, 83222397244, 83220306816 for Transfer Case xDrive: ATC 300, ATC350, ATC400, ATC450, ATC500, ATC700; Genesis (USA) G90 3.3 T-GDI und 5.0 GDI AWD (ab Bj. 2016); KIA (EU) Stinger 2.2 CRDI und 3.3 T-GDI AWD (ab Bj. 2017); Mopar 68049954AA for BorgWarner 44-40 transfer case; Nissan 999MP-ATFD3MP

Art. No.: 1211128



RAVENOL Transfer Fluid BW 44

RAVENOL Transfer Fluid BW 44 is a PAO (Poly-alpha-olefin) based, fully synthetic ATF (Automatic Transmission Fluid) with a special additive and inhibition, which ensure the proper functioning of the active transfer case.

BorgWarner 44-40 und BW 44-44, BorgWarner BW 44-46 44-47 44-48 und 44-45 bis 2016; MB 236.13, Mercedes A001 989 23 03; Mercedes active transfer case A2202800700, A2112801000, A2112800900, A2032800700 für 4Matik S-Klasse W220, E-Klasse W211, C-Klasse W203; Mopar 68049954AC / 68049954AA, Chrysler Verteilgetriebe 68214750AC, 68214751AB, 68214751AC für Chrysler 300C LX, Dodge Charger LX/LD, Dodge Magnum LX

Art. No.: 1211147



RAVENOL ATF FZ

Special fully synthetic ATF (Automatic-Transmission-Fluid) for the Mazda 6-gear transmission FW6A-EL and FW6AX-EL with SKYACTIV technology.

Mazda ATF FZ, Mazda 0000-FZ-113E-01, Mazda 8300-77-246

Art. No.: 1211130



RAVENOL ATF DSIH 6

Special synthetic ATF Fluid based on PAO for 6-Speed automatic transmission of Drivetrain Systems International Holdings (DSIH) for SsangYong KYRON, ACTYON, ACTYON SPORTS, Geely GC7, GX7, SC7 and EC8.

SsangYong 0578-244021, Caltex 1712, ATF 3292, DSI M11 6-Speed Korando, DSI M78 6-Speed Kyron, Actyon

Art. No.: 1211133



RAVENOL ATF Type J2/S Fluid

Synthetic ATF for Jatco Renault, Nissan, Mitsubishi transmissions.

Nissan KE908-99932 Matic Fluid J, KLE2300002 Matic Fluid J, 999MP-MTJ00P Matic Fluid J, 999MP-MTS00P Matic Fluid S, KLE24 00002 Matic Fluid S, Mitsubishi MZ 313771 ATF Fluid J2, 4031610 ATF Fluid J3, Renault Matic J6

Art. No.: 1211115



RAVENOL T-IV-Fluid

Universal ATF (Automatic-Transmission-Fluid) for TOYOTA and AISIN AW automatic transmission.

Aisin Warner Automatic Gearbox, BMW 83 22 7 542 290 for MINI 6-Speed Aisin F21, 83 22 0 402 413 for MINI 6-Speed Aisin F21 (only USA), FORD 1327936, WSS-M2C924-A, XT-8QAW, General Motors 9986195, OPEL/GM 1940771,1940774, Land Rover LR002748 6-Speed Aisin F21, RENAULT 7711218368 SU1 Gear, 7711172225 for transmission SU0 and SU1, TOYOTA JWS 3309, 08886-81016, 00279-000T4, 08886-01705, VOLVO 1161540, VW/AUDI G 055 025 A2, NISSAN 999MP-MTK00P for RE5F22A (Aisin AW55-50SN Nissan Altima, Maxima, Quest, Sentra), Matic K, Mazda K020-W0-049, Suzuki 99000-22800-001, ESSO JWS3317, Land Rover LR022460, Fiat 9.55550-AV1

Art. No.: 1212102



RAVENOL ATF T-WS Lifetime

Synthetic ATF with a special formulation for long-life filling.

Aisin TF-80SC (AWF21, AF 40-6, AM6, AW6A-EL), Aisin TF-80SD, Aisin TF-81SC (AF21 und AWF-21), Aisin TF-82SC, Aisin TG-81SC (AWF8F35, A881F und GA8F22AW), Aisin Warner Automatic Gearbox ab 2008, Aisin Warner AW-1, BMW 2 Gran Tourer F46, BMW 83222355599, BMW ATF 6, BMW X1 F48, BMW X2 F39, Chrysler 05189978AA, Chrysler 05189979AA, Chrysler Mopar AS68RC, Fiat 9.55550-AV2, Geely 6608136626 ATF-GS, GM 1940773, Isuzu 2-90531-200-0, Isuzu 2-90531-201-0, Land Rover LR022460, Mini Cooper F54, Mini Countryman F60, SAAB 93165147, Toyota / Lexus JWS3324, Toyota 00289-ATFWS, Toyota 08886-02305, Toyota 08886-81210, VOLVO 31256774, VOLVO 31256775, VOLVO 31256776, VW G 055 540 A2, VW/Audi Getriebe 0C8 (Touareg 2011-Q7 2010-), Xuanfu 6AT18, Xuanfu 6AT20, Xuanfu 6AT28

Art. No.: 1211106



RAVENOL ATF JF405E

Synthetic ATF for JATCO 4-speed automatic transmissions JF405E or JF402E for Hyundai, Kia, Nissan, Daewoo, Mazda.

Suzuki 99000-22A80-025, ATF 3314, Hyundai 45000-34D00, 04500-00130, 04500-00430, JWS3314

Art. No.: 1211118



RAVENOL ATF JF506E

Synthetic ATF for JATCO 5-speed automatic transmission JF506E for Ford, LandRover, VW, Jaguar, Seat.

FORD WSS-M2C922-A1 for Durashift 5F31J, Land Rover LRN402, STC53016, STC50531, Jaguar C2S 12120, ATF Type K17, Type 3100 PL085, N402, VW G052990A2 for 09A and 09B 5-Speed Tiptronic

Art. No.: 1211119



RAVENOL ATF Matic Fluid Type D

Synthetic ATF for 4- and 5-speed automatic transmissions of Nissan.

Nissan KLE2200002, Nissan KLE2000004, KLE22-00020, Nissan 999MP-AA100P, Nissan KE908-99931

Art. No.: 1211121



RAVENOL ATF MM SP-III Fluid

Universal ATF (Automatic-Transmission-Fluid) for MITSUBISHI, HYUNDAI und KIA-automatic transmissions. Can replace SP and SP-II Fluids.

Mitsubishi 4024610, 4024401, ACH1ZC1X05, MZ320159, MZ320160, MZ320162, MZ320216, ATF SP-III, ATF SP-3, Hyundai 04500-00100, 04500-00400, 04500-00A00, 00232-19012, Chery B110AX4004011SP10; Chery CHR2015CVT001; Chery CVT 019CHA/019CHB

Art. No.: 1212103



RAVENOL ATF RED-1

Synthetic ATF for special 5-speed automatic transmissions of KIA and Hyundai.

ATF RED-1, KIA UM040-CH020, 04500-00140, Hyundai 04500-00140

Art. No.: 1211117



RAVENOL ATF SP-IV Fluid

Synthetic ATF for 6-speed Hyundai automatic transmission from year 2009.

6-speed Hyundai automatic transmissions: Hyundai 00232-19045, 04500-00115, Hyundai Elantra UD 2011- L4 1.6L, L4 2.0L, iX35 2009 - L4 2.0L, 2.4L, Santa Fe 2009 - L4 2.0L, 2.2L, 2.4L, V6 3.5L, Sonata 2009- L4 2.0L, 2.4L, V6 3.5L, Tucson 2009- L4 2.0L, 2.4L, Veracruz 2011- V6 3.0, Grandeur HG 2011- V6 3.3L, 3.8L, Azera TG 2011- V6 3.3L, 3.8L, KIA Sorento 2009- V6 3.3L, 3.5L, 3.8L, Sorento XM 2011 - L4 2.4L, V6 3.5L, Sportage 2010- L4 2.0L, 2.4L, Forte/Forte Koup 2010- L4 2.0L, 2.4L, Optima TF 2011- L4 2.0L, 2.4L, Sedona VQ 2011- V6 3.5L

Art. No.: 1211107



RAVENOL ATF DW-1 Fluid

Synthetic ATF for automatic transmissions of Honda.

Honda 08200-9008, 08200-9009, Honda 08266-99964, 08266-99967, 08266-99901

Art. No.: 1211125



RAVENOL DPS Fluid

Synthetic special fluid with special additives for Dual Pump System (DPS) of Honda.

Honda DPFII (DPSF), 08293-99904, DPSF2 Ultra 4WD Rear, 08200-9007

Art. No.: 1211113



RAVENOL SU5 ATF Fluid

Synthetic ATF for 5-speed automatic transmissions of Subaru.

Subaru 4ATF, 5ATF, ATF HP, Subaru K0415-Y0700, Subaru SOA868V9240, SOA868V9241, SOA427V1500

Art. No.: 1211122



RAVENOL ATF SP-IV RR

Special ATF for Hyundai 8-speed transmissions.

Hyundai 00232-19052, Hyundai 04500-00117, Hyundai EQUUS, Hyundai GENESIS, Hyundai GENESIS Coupe, KIA MOHAVE, KIA QUORIS

Art. No.: 1211138



RAVENOL ATF MM-PA Fluid

Synthetic ATF for automatic transmissions of Mitsubishi V5AWF.

Mitsubishi V5AWF, Mitsubishi 4030401, Mitsubishi DIA QUEEN ATF-PA

Art. No.: 1211126



RAVENOL ATF Type Z1 Fluid

Synthetic ATF for all 4-and 5-speed automatic transmissions of Honda.

Honda 08266-99904, Honda 08266-99907, Honda 08200-9005

Art. No.: 1211109



RAVENOL ATF BTR 95LE

Synthetic ATF for transmissions of BTR Engineering Australia for SsangYong, FORD, Maserati, Mitsubishi and others.

M74LE, M85LE, M91LE, M95LE, ATF Type TQ95

Art. No.: 1211116



RAVENOL CVT HCF-2 Fluid

Synthetic CVT (Continuously Variable Transmission) fluid designed specifically for second-generation CVT transmissions, based on high quality base oils and Polyalphaolefin (PAO).

Honda CVT Gen2, Honda 08200-HCF2, Honda 08260-99964, 08260-99967, 08200-HCF2, 08269-99904HE, 08269-99905HE, Honda Accord IX CR 2013-2017, Accord X 2017, Jazz III / Fit GK3/GK4/GK5/GK6 2013- , Grace / Citi GM6/GM9 2014 - , Civic IX FB 2014-2015, Civic X FC1/FK7 2016- , HR-V II 2017- , CR-V IV 2014 - 2016, CR-V V 2018-, Jade FR5 2014-, Odyssey RC1/RC2 2013-, Shuttle GK8/GK9 2015-, Stepwgn RK 2012-2015, Stepwgn RP1/RP2/RP3/RP4 2015-, Vezel RU1/RU2 2012-

Art. No.: 1211142



RAVENOL CVT Fluid

Synthetic automatic transmission fluid for CVT-automatic transmissions.

BMW CVT EZL 799A, Ford EU WSS-M2C928-A, Focus C-Max CFT23, Ford USA WSS-M2C933-A, XT-7-QCFT Freestyle, Five Hundred CFT30, Honda CVT Fluid 08200-9006, HMMF Ultra Fluid 08260-99904, 08260-99907, MB 236.20 A 0019894603, Mazda TFF CVT Fluid TC JWS3320 K020-W0-051W, Nissan CVT Fluid NS-1, KLE50 00002, KLE50 00004, Opel/GM 1940713, Subaru i-CVT Fluid K0415-YA090, Subaru CVT Lineartronic II K0425Y0711, Suzuki S-CVT 99000-22801-000, Toyota CVT Fluid TC 08886-02105, VW/AUDI G052180A1/A2/A6, TL 52180, VW G 052 516 A2, Mini Cooper CVT, Chery 025CHA/QR025CHA, Chery 025CHA-4004011AA10, Chery 025CHC/QR025CHC, Chery CVT25, CVTF WCF-1

Art. No.: 1211110



RAVENOL CVT KFE Fluid

Synthetic CVT (Continuously Variable Transmission) fluid with low viscosity based on fully synthetic oil (PAO) with a special additive and inhibition to ensure the proper operation of the automatic transmissions.

Toyota - 08886-02505, 08886-02503

Art. No.: 1211134



RAVENOL DCT-HV Fluid

Synthetic transmission fluid for Dual Clutch Gear.

BMW 83220440214, BMW 83222147477, BMW 83222148578, BMW 83222148579, BMW 83222446673, BMW DCTF-1, BOT 341, Chrysler 68044345 EA, Citroën/Peugeot 9734.S2 für DCS6, Drexler DSG-Getriebe mit Miba-Carbon-Lamelle, DTFR 13C130 (MB 236.21), Fiat 9.55550-MZ6 für TCT (Twin Clutch Transmission, Ford 1490761, Ford 1490763, Ford USA XT-11-QDC, Ford WSD-M2C200-D2, Ford WSS-M2C936-A, MB 236.21, Mitsubishi Dia Queen SSTF-I, Mitsubishi MZ320065, Renault EDC (Efficiency Dual Clutch System), VOLVO 1161838, VOLVO 1161839, VW G 052 182 A2, VW G 052 529, VW TL 052 529-A

Art. No.: 1212106



RAVENOL DCT-LV Fluid

PAO (polyalphaolefin) based, fully synthetic DCT (dual clutch transmission) oil, with a special additivation and inhibition, which ensure a proper function of the dual clutch transmission.

BMW 83222433157, BMW DCTF-2, BOT 351 C4, Chery 730DHB/DHC 7DCT300, Chery 738DHA 7DCT380, Chery 9009011085, Ford F-DC, Ford WSS-M2C218-A1, Great Wall GW7DCT1, Great Wall GWM 7DCT450, Hyundai/Kia 04300-2N110 WDHO-1, Kunlun DCTF-7S, MB 236.22, MB 239.21, MB 239.22, Pentonsin FFL-7A, Renault 7711785243, Renault DW5, Sinopec DCTF-GS, VW G 055 529, VW G 055 529 A2, VW TL 5259-C

Art. No.: 1212107



RAVENOL CVTF NS2/J1 Fluid

Synthetic CVTF (Continuously Variable Transmission Fluid) for CVT of JATCO.

Nissan CVT NS-2 KLE52-0002, KLE52-0004, Mitsubishi S0001401, PSA Standard 9735EF, Suzuki CVT Fluid Green-1 99000-22B15-046

Art. No.: 1211114



RAVENOL CVTF NS3/J4 Fluid

Synthetic CVTF (Continuously Variable Transmission Fluid), based on PAO with special additives and inhibition.

ATF NS-3; ATF J4; Mitsubishi MZ320261, MZ320262, MZ320288, MZ102658; Nissan KLE53-00004, KLE53-00002, 999MP-NS300P; Suzuki CVT Fluid GREEN 2 9900022B24046, 990N022B24004.

Art. No.: 1211132



RAVENOL ATF PDK Fluid

Fully synthetic automatic transmission oil ATF with low viscosity and with special additives and inhibition for Porsche Dual Clutch Gear.

Porsche PDK, Porsche 000 043 207 29, Porsche Oil No. 999.917.080.00, Porsche 000.043.210.44, Porsche 971 094 307 02A, BMW 8322 2167 666, BMW 8322 2156 969 (MTF LT-5), MB 236.24 (A 002 989 04 03)

Art. No.: 1211131



RAVENOL ATF ULV D-M

Ultra Low Viscosity (ULV) Automatic Transmission Fluid (ATF), designed on the basis of PAO (Polyalphaolefin), Ester and highquality hydrocrack oils with a special additive and inhibition, developed for the latest 8 and 10 speed automatic transmissions from Ford and GM.

AC Delco 10-4107, DEXRON® ULV ab/ from 2017 GM 10L90, GM 19352619, Ford MERCON® ULV ab/from 2017 Ford 10R80, Ford Motorcraft XT-12-QULV, Ford WSS-M2C949-A, Ford 196825, Ford 2179795, VW G 060 54

Art. No.: 1212108



RAVENOL DCT GT-R Fluid

Special transmission fluid for use in the new Nissan GT-R R35 double clutch transmission (DCT).

Nissan KLD4100002EU, KLD41-00002, 999MP-GTRT00P

Art. No.: 1211129



RAVENOL ATF DCT-F3

Special synthetic transmission fluid, which has been developed for use in seven-speed Dual Clutch Gear transmission GETRAG Powershift 7DCL750.

MB 236.25, GETRAG Powershift 7DCL750, 7-Gang Doppelkupplungsgetriebe (SSG) von Graziano Trasmissioni

Art. No.: 1211135

Automatic transmission fluids

Motor vehicles are equipped with a manual automatic distributor and axle transmissions with the same characteristics. In order to ensure that the transmission works perfectly for the total period of use, special gear oils are required for the relevant assemblies. This is why gear oils are now considered to be a construction element for development purposes. ATFs (Automatic Transmission Fluids) are special lubricants with specific, high requirements for use in automatic transmissions. This specifically involves good viscosity/temperature behaviour, high oxidation and shear stability, excellent foaming behaviour and air output capacity, EP properties as well as defined friction performance. In addition to special base oils, ATF oils consist of a variety of additives, without which the requirements profile would not be achievable.

To avoid being mixed up with engine oils, automatic transmission fluids are coloured.

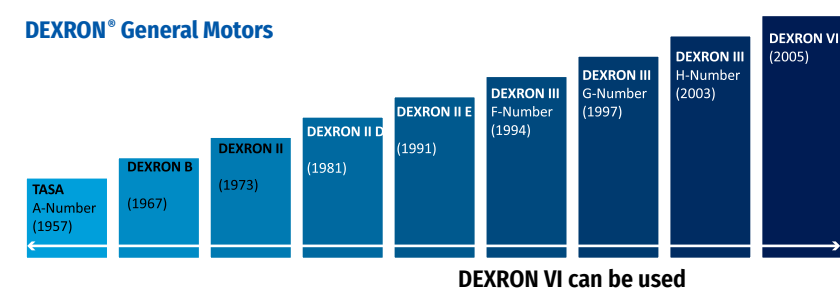
Requirements:

- Transmission of forces on tooth flanks, in the converter (variator CVT)
- Lubrication of parts which slide / roll on each other (rolling and plain bearings, planet sets, freewheels)
- Protection against corrosion, wear, deposits and foams
- Application-specific friction behaviour of clutches and brake bands for shifting comfort and transmission capability
- Seal compatibility so that elastomers do not become brittle, shrink or soften
- Optimal viscosity for cold starts and hot operation
- Cooling the transmission from the inside through heat transportation to the drive housing or separate oil cooler
- High oxidation stability and ageing stability for long oil retention times

Specifications:

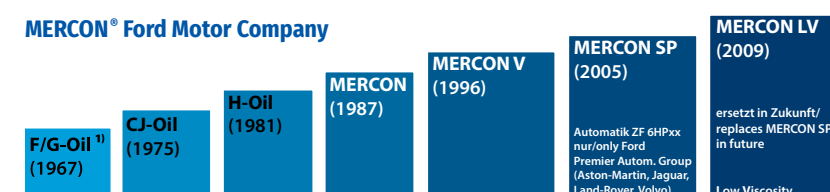
SAE viscosity grades are not stipulated for ATFs, they are part of the respective specification. The most important global specifications for automatic transmissions are DEXRON from General Motors and MERCON from Ford.

DEXRON® General Motors



- TASA = Type A, Suffix A
- A-, B-, C-, D-, E-, F-, G-, H-, N > Approval numbers (Armour Qualification Institute)
- () = Year of introduction of the specification

MERCON® Ford Motor Company



¹⁾F / G oil is not miscible with other ATFs

Source: Mineral Oil Technology August 2005, Maelger, Afton Chemical, ATF - Yesterday, today, tomorrow, www.td-uniti.de

ATF Standard

Our classic automatic transmission fluids. Tried-and-tested formulations for perfect gear function.



RAVENOL ATF+4® Fluid

GM-Specification: ATF+4®

Synthetic automatic transmission fluid for Chrysler, Dodge, Plymouth, Jeep and Eagle automatic transmissions. Mixable with all ATF+4®, ATF+2® or ATF+3® transmission fluids.

License-No. 40630041 FCA US LLC (formerly known as Chrysler Group LLC), Mopar 68218054GA (former: 680474406MA, 68087385EA), 68218058GA (former: 05013458AA, 05103531EA/05013458GA), 68218057GA (former: 05013457AA, 05103527EA/05013457GA) MS-9602, Fiat 9.55550-AV4.

Art. No.: 1211100



RAVENOL ATF Fluid

GM-Specification: Type A Suffix A (TASA)

Mineral automatic transmission fluid (ATF) for hydrostatic and hydrodynamic systems, if ATF Type A Suffix A is required. For use in automatic transmissions, turbo clutches, power couplings and other hydrostatic and hydrodynamic systems.

DTFR 13C120 (MB 236.2), MB 236.2, MAN 339 Type A, Renk Doromat, Cat. TO-2, Allison C4

Art. No.: 1213101



RAVENOL ATF Fluid Type F

Special transmission fluid for Ford, Borg-Wagner, Volvo.

FORD Type M2C-33F/G, Motorcraft XT-1-QF, VOLVO 97330

Art. No.: 1213105



RAVENOL ATF Dexron II E

GM-Specification: Dexron® II E

High performance synthetic ATF (Automatic-Transmission-Fluid) for automatic transmissions, torque converters and power shifts.

MB 236.8, MB 236.5, Voith 55.6336.3x Extended Drain (G1363), Allison C4-32652009 (ATF II E), MAN 339 Typ Z2, MAN 339 Typ V2, ZF TE-ML 04D, 09X, 14B, 16L, Cat. TO-2, DTFR 13C150 (MB 236.8)

Art. No.: 1211103



RAVENOL ATF Dexron D II

GM-Specification: Dexron® II D

High performance mineral transmission fluid for automatic gearboxes, hydraulic steering, power converters and transmissions.

MB 236.6, MB 236.7, ZF TE-ML 03D, 04D, 05L, 11A, 14A, 17C, VOITH H55.6335.xx, MAN 339 Typ Z1, Ford SQM-9010B, Ford M2C-138 Cj, 166H, 185A, Cat. TO-2, MERCON, RENK DOROMAT, CVT, Allison C3/C4.

Art. No.: 1213102



RAVENOL ATF DEXRON® VI

GM-Specification: Dexron®-VI

Synthetic ATF, approved by General Motors for use in vehicles with automatic transmissions.

Dexron®-VI (License-No. J-60331), GMN 10060, MB 236.41, BMW 83 22 0 397 114, BMW 83222167720, GM1940184, GM93165414

Art. No.: 1211105



RAVENOL ATF T-ULV Fluid

Fully synthetic ATF (Automatic Transmission Fluid), designed on the basis of high quality polyalphaolefin (PAO) and Esters with a special additive and inhibition. ATF with ultra-low viscosity.

ATF AW-2, BMW ATF 7, BMW 83 22 2 413 477 (8-Speed Automatic Transmission BMW GA8G45AW), PSA 16 350 560 80 (8-Speed Automatic Transmission PSA AMN8/ ATN8/ AXN8), Volvo 31492172/ 31492173 (8-Speed Automatic Transmission AWF8G45/ AWF8G55), VW G 053 001 A2 (8-Speed Automatic Transmission VW 09S (AQ300-8F))

Art. No.: 1211146



RAVENOL MULTI ATF HVS FLUID

High viscosity ATF with a very wide manufacturer coverage. It can be used in almost all conventional automatic transmissions with shift groups if no suitable original oil is available. Not suitable for CVT automatic transmissions.

JASO M315, Class 1A, ATF LT 71141, Aisin AW-1, BMW ATF LA 2634, BMW ATF 4, Hyundai/KIA/Mitsubishi ATF SP-III, Honda/Acura Z-1, JWS 3309, Nissan Matic-D, -J, -K, -W, Mazda M-III, Suzuki 3314/3317, Toyota/Lexus ATF T-IV, VW TL 052 025/052 162/052 990/055 025, and many more

Art. No.: 1211144



RAVENOL ATF Dexron III H

GM-Specification: DEXRON® III H, Allison C4

High performance synthetic universal ATF (Automatic-Transmission-Fluid) for automatic gearboxes with or without controlled torque converter lockup clutch (GKÜB = clutch gearbox bridging), if transmission fluids type DEXRON III H is required. Backward compatible, can be used if specification ATF Dexron F III is required.

Allison C4-32642009 (ATF III H), Allison TES-389 AA-33072010 (ATF III H), GM Dexron® III H, DEXRON® III F-30140, ZF TE-ML 04D, 14A, 14B, 16L, 16R, 20B, 25B, 05L, 02F, 03D, 17C; Voith 55.6336.3x Extended Drain (G1363), Cat. TO-2; Ford MERCON M-940717; MAN 339 Typ V1, MAN 339 Typ Z1; MAN 339 Typ Z2; MB 236.1, MB 236.5, MB 236.6, MB 236.9, MB 236.10; Nissan; VOLVO Transmission Oil 97341, VOLVO 1161521, 1161621, DTFR 13C100 (MB 236.1)

Art. No.: 1212100



RAVENOL ATF MERCON V

GM-Specification: MERCON®V

Universal ATF (Automatic-Transmission-Fluid) for FORD automatic transmissions.

MERCON®V (License-No. M5060502), Ford WSS-M2C202-B, Ford XT-5-QMC, XT-5-5QM, XT-5-DMC, Ford 8000045, Ford ATF E-M5, Ford 1565889, Ford 5014519, Ford WSS-M2C-919-E

Art. No.: 1212101



RAVENOL MULTI ATF LVS FLUID

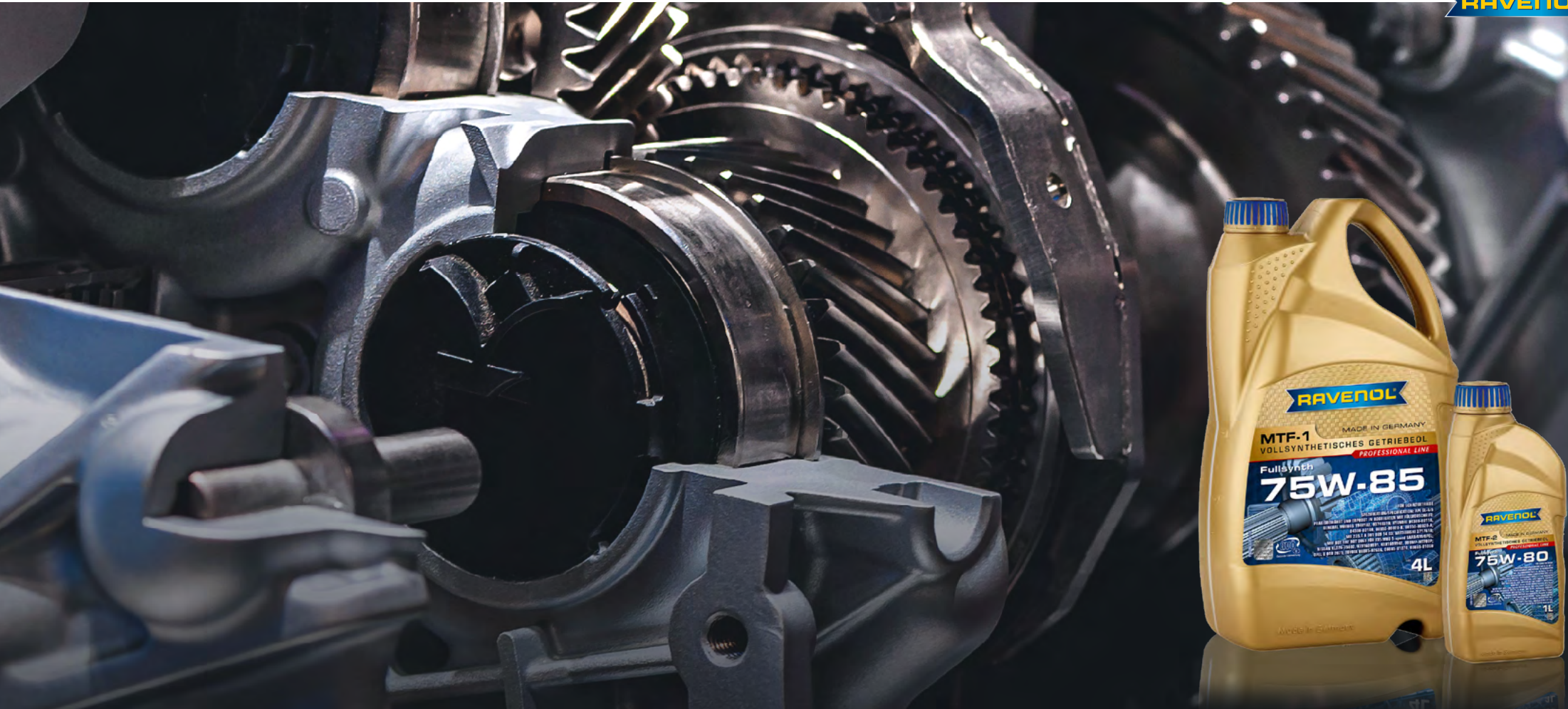
Low viscosity ATF with a very wide manufacturer coverage, can be used in almost all conventional automatic transmissions with shift groups if no suitable original oil is available. Not suitable for CVT automatic transmissions.

ATF 3353/134/L12108, BMW ATF M1375.4, ATF L 12108, ATF 6, ATF-3+, Ford Mercon SP, Honda/Acura DW-1, Hyundai/Kia SP-IV, Mazda FZ, MB 236.12, 236.14, 236.15, 236.17, Mitsubishi DIA QUEEN ATF-PA, ATF Fluid J3, Nissan, Matic Fluid S, Toyota/Lexus ATF WS, ZF-LifeguardFluid 6/8/9, VW TL 60 162/55 540/52 533/55 005, and many more

Art. No.: 1211145

Gear oil for manual gearboxes – Professional Line

The gear oils for manual gearboxes in the Professional Line product range are fully synthetic gear oils that can be used in a wide range of vehicles due to their sophisticated additives.



RAVENOL MTF-1

SAE 75W-85 | API GL-4/GL-5

Fully synthetic gear oil based on PAO for specific switching, distribution and differential gears.

DTFR 13B150 (MB 235.4), Fiat 9.55550-MZ1, General Motors 1940182, 93740319; Hyundai 04300-00110, 04300-00140, 08950-00020-B, 08950-00020-A; MB 235.4 A 001 989 14 03; Mitsubishi 3717610; MTF BOT 402 BOT 0063 for F35/MU3 5-speed SAAB/GM/Opel; Nissan KLD26-75802, KE91699931, KE91699942, 999MP-MTF00P; OPEL B 040 2071; TOYOTA 08885-02606, 08885-81070, 08885-81060

Art. No.: 1221102



RAVENOL MTF-2

SAE 75W-80 | API GL-4/MT-1

Fully synthetic gear oil based on PAO for modern manual transmissions.

AC Delco 10-403; General Motors 1940711, 88861800, 88861801; BMW 2300 7533 513 MTF LT-2, 83 22 0 309 031 / 2300 1434 404 MTF LT-1; FIAT 9.55550-MZ2 F178.B06 14621616; FORD WSS-M2C200-D2 WSS-M2C200-C3 1547953 1382914; Honda 08261-99964 Genuine MTF Fluid 08798-9031 MTF-7289; Hyundai 02200-00130 TOD; Land Rover STC 9157 TYK500030 STC 9158; MB 235.10 A 001 989 26 03, Mitsubishi MZ312644 3005401; MTF-94 Fluid für Land Rover, MG and Mini Cooper; Nissan 999MP-MTF20P KE91699932R; Peugeot 9730A2; Subaru K0321-F0090; TOYOTA 08885-00705, MTF XT4447 M+, MTF ETL8997B, MTF 97309; PSA B 71 2330; VOLVO 1161681 1161745; VW/AUDI G 052 911 A2, G 055 538 A2 for ZF 6S450 Amarok 0C6; AUDI G 052 532 and G 055 532

Art. No.: 1221103



RAVENOL MTF-3

SAE 75W | API GL-4

Fully synthetic gear oil for special manual transmissions.

ACDelco 10-4037; BMW MTF LT-3 23 00 7 533 818, 83 22 0 396 706, 83 22 7 533 818; BOT303; BOT 350 M3; Fiat 9.55550-MZ6; FORD WSS-M2C200-D2; GM 19259104, 1940004; JWS2271; Mercedes A001989840309, MB 235.10; Opel B0402167; PSA B71 2316, B71 2317, 9730A8; TOYOTA 08885-81001, TOYOTA 08885-81081; Suzuki 99000-22B27-036; VW G 009 317 A2, G 052 512 A2, G 052 527, G 052 171 A2, G 052 527 A2, G 055 512 A2, G 055 532 A2, G 070 726 A2; VW/AUDI G 060 726 A2; VOLVO 1161839, VOLVO 1161838.

Art. No.: 1221104



RAVENOL MTF-4

SAE 70W | API GL-4+

Full synthetic gear oil based on PAO for special manual transmissions.

BOT 233 LVX, Hyundai / KIA 04300-KX1B0, UM015-CH080 für HMC Getriebe D7GF1, D7UF1, M6CF1, M6CF4, M6CF3-1, M6GF2, VW G052549A2

Art. No.: 1221113

ATF transmission oils for commercial vehicles



RAVENOL ATF ZMS

ATF of the latest generation, for commercial vehicle automatic transmissions of ZF, allows oil change intervals of 150,000km or max. 3 years

MAN 339 Typ Z3, MAN 339 Typ Z4 (ZF Ecomat 150 000 km), ZF TE-ML 04D, 14E, 16N, 16Q, 20F (ZF Ecolife), ZF 0671 072 120, ZF 0671 072 130

Art. No.: 1211102



RAVENOL LKW ATF Synthetik

Synthetic ATF for the latest generation commercial of vehicle automatic transmissions.

ZF TE-ML 14E, 16N, MAN 339 Typ Z4 (ZF Ecomat 150 000 km), Allison TES-295 (TranSynd Fluid), Allison TES-468, Caterpillar 6-speed CX31 and 8-speed Super-Heavy-Duty CX35 transmissions, Voith 55.63353x (G 607) and 55.63363x (G 1363), Renk Doromat, MB 236.91, DTFR 13C180 (MB 236.91)

Art. No.: 1211104



RAVENOL ATF THS Truck HD Synthetic

High-quality synthetic transmission fluid with special additives and particularly suitable for Allison automatic transmissions.

Allison TES-295,389,468,668; Ford XT-2-QDX, XT-5-QMC; JASO M315 Type 1A; MB 236.92, Volvo 97340, 97341, DTFR 13C190 (MB 236.92)

Art. No.: 1211151

Gear oils for manual gearboxes and drive axles

Lubricants for vehicle transmissions must have properties that can usually only be achieved using additional active substances. Today, high-quality multigrade engine oils are already capable of withstanding pressure loads to such an extent that they are recommended by vehicle manufacturers in some cases, for example in manual gearboxes. Gear oils are sold as single grade and multigrade oils. The modern 5- and 6-speed gearboxes in particular require wide-range multigrade oils, the SAE range is then either 75W-90 or 80W-90. For the hypoid drive axles, viscosities of SAE 75W to 85W-140 are prescribed.

SAE viscosity classes in accordance with SAE J306

SAE grade	Min. temperature at dynamic viscosity	Kinematic viscosity at 100 °C, mm²/s	
	150 Pa·s, °C	Min	Max
Winter			
70W	-55	4.1	–
75W	-40	4.1	–
80W	-26	7.0	11.0
85W	-12	11.0	13.5
Summer			
90	–	13.5	18.5.0
120	–	18.5	24.0
140	–	24.0	32.5
190	–	32.5	41.0
250	–	41.0	–

Requirements:

- Lubrication, shear stability of the lubricant, reliable protection against wear for drive components as well as seals, anti-foaming behaviour, temperature control, corrosion protection, load-bearing capacity, anti-pitting, dispersing capacity, lack of sensitivity with regard to seals and metals, miscibility with other lubricants.
- Shifting and synchronisation performance
- Avoidance of noise during idle time and operation, low-noise operation at high and low temperatures, revolutions and loads.
- Extension of the change intervals for lubricants means increasing requirements for the oils, i.e. consistent functionality over the entire period of use, high thermal and oxidative stability for longer usage options and optimised friction conditions to reduce energy losses.
- Cold start: Wear-free starts at low temperatures.

In addition to the factory standards of the relevant automotive industry, the guidelines for gear oils of the American Petroleum Institute (API) are decisive. However, the API classifications can only provide rough categorisation, as the requirements for modern gear oils are very complex.

API CLASSIFICATION FOR GEAR OILS FOR MANUAL TRANSMISSION IN PASSENGER CARS

GL-1	Inactive ¹⁾ : designates the type of service characteristic of manual transmissions operating under such mild conditions of low unit pressures and minimum sliding velocities, that untreated oil may be used satisfactorily. Oxidation and rust inhibitors, defoamers and pour depressants may be used to improve the characteristics of lubricants intended for this service. Friction modifiers and extreme pressure additives shall not be used.
GL-2	Inactive ¹⁾ : designates the type of service characteristic of automotive type worm-gear axles operating under such conditions of load, temperature and sliding velocities, that lubricants satisfactory for API GL-1 service will not suffice.
GL-3	Inactive ¹⁾ : designates the type of service characteristic of manual transmissions and spiral-bevel axles operating under mild to moderate to severe conditions of speed and load. These service conditions require a lubricant having load-carrying capacities greater than those that will satisfy APL GL-1 service, but below the requirements of lubricants satisfying the API GL-4 service.
GL-4	Designates the type of service characteristic of spiral-bevel and hypoid gears in automotive axles operated under moderate speeds and loads. These oils may be used in selected manual transmission and transaxle applications.
GL-5	Designates the type of service characteristic of gears, particularly hypoids in automotive axles under high-speed and/or low-speed, high-torque conditions. Lubricants qualified under U.S. Military specification MIL-L-2105D (formerly MIL-L-2015C), MIL-PRF-2105E and SAE J2360 satisfy the requirements of the API GL-5 service designation.
GL-6	Inactive ¹⁾ : designates the type of service characteristic of gears designed with a very high pinion offset. Such designs typically require (gear) score protection in excess of that provided by API GL-5 gear oils. The original API GL-6 test equipment is obsolete.
MT-1	designates lubricants intended for non-synchronized manual transmissions used in buses and heavy-duty trucks. Lubricants meeting API MT-1 provide protection against the combination of thermal degradation, component wear, and oil seal deterioration which is not provided by lubricants meeting only the requirements of API GL-4 and API GL-5.

¹⁾ API Categories GL-1, GL-2, GL-3 and GL-6 were declared inactive by SAE Technical Committee 3 in 1995, even though oils may be marketed with these designations. Similarly, ASTM does not plan to maintain the performance tests associated with these categories, as in a number of cases these tests can no longer be run because parts or test installations are not available

To ensure the function of the transmission over the entire duration of use requires special gear for the respective assemblies. So gear oils today are included as a design element in the development.

Gear oils for manual gearboxes and drive axles

Our classic oils to lubricate manual gearboxes, drive axles and a wide variety of transmissions, including limited slip. Special combinations of active substances guarantee that the aggregates work perfectly.



RAVENOL VGL

SAE 70W-80 | API GL-5+LS/MT-1 | MIL-L-2105D

Fully synthetic hypoid axle gear oil with state-of-the-art components for vehicles with the latest transmission technology from BMW.

BMW 83222413512, BMW 83222447362, BMW Hypoid Axle Oil G3, BMW Hypoid Axle Oil G4, Mazda Hypoid Gear Oil (SG1), Mazda K020-01-SG1, VW G 060 190 A2

Art. No.: 1221112



RAVENOL MDL Multi-Disc locking differentials

Synthetic lubricant for clutch-type lamella limited slip differentials.

AcDelco 10-4032, Daimler A 0019895903 for Mercedes-Benz M-Class (W164, X164) GM 92184900, Land Rover LR019727, BOT 720, TYK500070, Porsche 000.043.300.37 / 000.043.305.03 for Porsche Cayenne, Porsche Panamera, VW G052196A2 for VW Touareg

Art. No.: 1222103



RAVENOL STF Synchromesh Transmission Fluid

Synthetic gear oil for manual transmissions and transfer boxes from GM and Chrysler.

Chrysler MS-9417, MS-9224, 4874465, 4874464, General Motors 12345349, 9985648, 1052931, 12377916, 9985535, 12345577, 9986105

Art. No.: 1221105



RAVENOL SSG Spec Synt LKW Getriebeöl

SAE 75W-80 | API GL-4 | MIL-L-2105D

Synthetic low friction gear oil especially for high stressed gears. For synchronized truck manual transmissions with intarder or retarder. Extreme oil change intervals to 500.000 km.

ZF TE-ML 01L, 02L, 16K, MAN 341 Type Z4, MAN 341 Typ E3, MAN 341 Type V-R, DAF/VOLVO 97305, 97307, EATON (Extended drain) / IVECO / RENAULT, MB 235.28

Art. No.: 1221100



RAVENOL VSG

SAE 75W-90 | API GL-5/GL-4 | MIL-L-2105D

Fully synthetic gear oil for use in heavily loaded transmissions.

DTFR 12B140 (MB 235.8), DTFR 13B110 (MB 235.11), BMW 83229407768, BMW 83222365987, BMW OSP, BMW SAF-XO; BOT 328, 130M, 720; DAF LKW (for longdrain interval); Ford WSD-M2C200-C, Ford 1045737, Ford 5021033 für Ford-Getriebe IB5, B5, MTX75, GM5, MT285/6, MT6/6, MT75, R15M-D, R15MX-D, MT82; IVECO; Land Rover TYK500010; MAN 342 Typ S1; MB 235.8, MB 235.11; MIL-L 2105 D; Porsche 958.341.536.00 (Full-Time Transfer Case with Torsen (PL72T) for Cayenne 92A / 958 Diesel and S Hybrid from 2010 to 2018); Renault LKW; SCANIA STO 1:0; VOLVO 97312 / 97315 / 97319; VW G052 145 A2, VW G052 539 A2, VW G052 911 A2; ZF TE-ML 12B, 16F, 17B, MB 235.72

Art. No.: 1221101



RAVENOL Getriebeöl SLG

SAE 80W-90 | API GL-3/GL-4/GL-5/ MT-1 | MIL-L-2105 A/B/C/D/E, MIL-PRF-2105E

High performance multifunction gear oil for truck manual transmissions, auxiliary drives and rear axles, including highly stressed hypoid drive axles.

DAF, MAN 341 Typ Z2/E2, MAN 342 Typ M2, SCANIA STO 1:0, VOLVO 97321; ZF TE-ML 02B, 05A, 12E, 16B, 16 C, 16 D, 17B,19B, 21A, MB 235.0, Mack GO-J, Iveco, DTFR 12B130, DTFR 12B100 (MB 235.0)

Art. No.: 1223305



RAVENOL Synthetisches Getriebeöl TSG

SAE 75W-90 | API GL-4

Semi synthetic multipurpose gear oil for high loaded manual transmissions with or without synchronization, distributors and steering transmission for passenger cars and working machines.

Ford M2C-175; GM Opel B 040 104 3; VW 501 50, VW G052 911 A2, G060726 A2

Art. No.: 1222101



RAVENOL TGO Teilsynthetisches Getriebeöl

SAE 75W-90 | API GL-5 | MIL-L-2105D

Semi synthetic gear oil especially for highest stressed hypoid geared transmissions.

MB 235.0, MB 235.1, MB 235.8, MAN 342 M2 (160.000 km), ZF TE-ML 05A, 07A, 16B/C/D, 17B, 19B, 21A, CS 3000B, Ford M2C-9002A, Mack GO-G, GM, DTFR 12B100 (MB 235.0), DTFR 12B140 (MB 235.8), DTFR 13B100 (MB 235.1)

Art. No.: 1222105



RAVENOL GEAR TRANS SYNTH GTS

SAE 75W-90 | API GL-4/GL-5/MT-1 | MIL-PRF 2105 E, SAE J2360

Axle gear oil based on the latest fully synthetic components for commercial vehicles, particularly suitable for Daimler specification 235.8.

Arvin Meritor 076-N, DAF, DFS93K219.01, IVECO, Mack GO-J, MB 235.8, MAN 341 GA1, 341 Z1, Z2, 342 M3, 342 S1, Renault, Scania STO 1:0, STO 2:0 A FS, Volvo 97312, ZF TE-ML 02B, 05, 07, 08, 12B, 12L, 12N, 13, 16F, 17B, 19C, 21A, DTFR 12B140

Art. No.: 1221122



RAVENOL GEAR SUPER SYNTH GSS

SAE 75W-90 | API GL-4/GL-5/MT-1 | MIL-PRF 2105 E, SAE J2360

Axle gear oil based on the latest fully synthetic components for commercial vehicles and for non-synchronized manual transmissions.

Arvin Meritor 076-N, DAF, Dana SHAES 256 Rev C, Dana SHAES 429, DFS93K219.01, IVECO 18-1805, Isuzu Axle Oil, Large Manual Transmission Oil, LCV Front Axle Oil, Mack GO-J, MAN 341 GA-2, 342 S-1, Meritor 0-95, Scania STO 2:0 G, STO 2:0 A FS, Volvo 97312, ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A, Voith Turbo 132.00374401, 132.00374402

Art. No.: 1221123



RAVENOL PSA

SAE 75W-80 | API GL-4

Semi synthetic gear oil especially developed for Citroën and Peugeot vehicles.

PSA Standard B 71 2315

Art. No.: 1222100



RAVENOL TDG

SAE 75W-110 | API GL-4/GL-5/MT-1 | MIL-L-2105D, MIL-PRF-2105E

Universal fully synthetic gear oil for manual transmissions and hypoid differentials in passenger cars, delivery vans and heavy truck. "Total Drive Line" oil is as universal product widely usable.

ZF TE-ML 05A, 05B, 07A, 08, 12N, 16F, 19C, 21A(ZF001438), 21B, SAE J23260, MACK GO-J, DAF, Meets the requirements of Scania STO 1:0

Art. No.: 1221109



RAVENOL Getriebeöl LS

SAE 75W-90 | API GL-5 + LS | MIL-L-2105D

Synthetic gear oil for Limited Slip (LS) type differentials.

ZF TE-ML 05C/D, GM 1940058 / GM 93165388, GM 88862624 / GM 88862625

Art. No.: 1222102



RAVENOL DGL

SAE 75W-85 | API GL-5+ LS | MIL-L-2105D

Fully synthetic multi-grade hypoid transmission oil of API GL-5 power class with "limited slip" properties for manual transmissions and rear-axles in motor vehicles.

Toyota 08885-81070, 08885-81081, Toyota JWS 2273, BMW, Dodge, Jeep, Lexus, AC Delco 10-4032, BOT 448, BMW 83 22 2 239 982, BMW 83 22 2 295 532 Hypoid Axle Oil G1, BMW 83 22 2 413 511 Hypoid Axle Oil G2, Chrysler ELSD Rear Axle, FIAT 9.55550 F426.E06, Fiat 9.55550-DA8, -DA9, Ford WSS-M2C942-A, GM 92184900, Land Rover LR052059, Mercedes Benz MB 235.62, MB 235.7 A0019898303, MB 235.15 A0019895903, MB 235.74 A0019893303, MB 239.71, Mopar 68083381AA, ZF TE-ML 18, VW TL 521 90, G052 196 A2, G052 190 A2, G 052 518 A2, G055 190 A2.

Art. No.: 1221107



RAVENOL SGO

SAE 80W-140 | API GL-5/MT-1

Synthetic transmission oil for high loaded hypoid gearboxes based on high quality synthetic base oils and additives that are a balanced combination of active ingredients.

MACK GO-J, SAE J2360, Scania STO 1:0, ZF TE-ML 05A, 7A, 12E, 16C, 16D, 21A, MIL-L-2105 D, Dana, Meritor

Art. No.: 1222201



RAVENOL Sperrdiff. Hypoid Getriebeöl LS

SAE 85W-90 | API GL-5 | MIL-L-2105D

Mineral gear oil for Limited Slip (LS) and locking type differentials.

ZF TE-ML 05C, 12C, 16E, Ford Specification, Limited Slip

Art. No.: 1223301



RAVENOL Getriebeöl SLS

SAE 75W-140 | API GL-5 + LS | MIL-L-2105D

Fully synthetic multigrade hypoid gear oil for highest stressed rear axle and differential gears with "Limited Slip" specification.

Limited Slip

Art. No.: 1221110



RAVENOL Sperrdiff. Hypoid Getriebeöl LS

SAE 90 | API GL-5 | MIL-L-2105D

Mineral gear oil for Limited Slip (LS) and locking type differentials.

ZF TE-ML 05C, 12C, 16E, 21C, Ford Specification, Limited Slip

Art. No.: 1223302



RAVENOL Sperrdiff. Hypoid Getriebeöl LS

SAE 80W-90 | API GL-5 | MIL-L-2105D

Mineral gear oil for Limited Slip (LS) and locking type differentials.

ZF TE-ML 05C, 12C, 16E, 21C, Ford Specification, Limited Slip

Art. No.: 1223303



RAVENOL SCG Super Construction Gear LS

SAE 85W-90 | API GL-5 + LS | MIL-L-2105D

Mineral multi-purpose gear oil based on high-quality base oils. Due to its special additives and inhibition, it is particularly suitable for Liebherr vehicles.

Liebherr Cranes, VOLVO 97310, MAN 342 N, ZF TE-ML 08, 16E, ASTM D7450

Art. No.: 1223310



RAVENOL Getriebeöl EPX

API GL-5 | MIL-L-2105D

Mineral gear oil for synchromesh and non-synchronized manual transmissions and hypoid differentials, as well as for power distributors and intermediate gear, side gears in vehicles and machinery

DTFR 12B100 (MB 235.0), MB 235.0, MAN 342 Type M1, ZF TE-ML 05A, 07A, 16B, 16C, 16D, 17B, Ford SQM-2C-9002AA, VOLVO 97313

Art. No.: 1223201 SAE 80
Art. No.: 1223202 SAE 90



RAVENOL Getriebeöl EPX

SAE 140 | API GL-4/GL-5 | MIL-L-2105D

Mineral gear oil for synchromesh and non-synchronized manual transmissions and hypoid differentials, as well as for power distributors and intermediate gear, side gears in vehicles and machinery

ZF TE-ML 05A, 07A, 17B, CS 3000B, Ford M2C-9002A, Mack GO-G, GM

Art. No.: 1223210



RAVENOL Getriebeöl MZG

SAE 80 | API GL-4 | MIL-L-2105D

Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain.

MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02A, 17A, MB 235.1, Ford SQM-2C-9008A, DTFR 13B100 (MB 235.1)

Art. No.: 1223101



RAVENOL Getriebeöl MZG

SAE 80W-90 | API GL-4 | MIL-L-2105D

Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain.

MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02B, 16A, 17A, 19A, MB 235.1, Ford SQM-2C-9008A, DTFR 13B100 (MB 235.1)

Art. No.: 1223105



RAVENOL Getriebeöl EPX

SAE 80W-90 | API GL-5 | MIL-L-2105D

Mineral multigrade gear oil for synchromesh and non-synchronized manual transmissions and hypoid differentials, as well as for power distributors and intermediate gear, side gears in vehicles and machinery.

ZF TE-ML 16B, 17B, 19B, 21A, LOVAT LOV-204, MB 235.0, MAN 342 Type M1, Ford SQM-2C-9002 AA, DTFR 12B100 (MB 235.0)

Art. No.: 1223205



RAVENOL Getriebeöl EPX

SAE 85W-90 | API GL-5 | MIL-L-2105D

Mineral multigrade gear oil for synchromesh and non-synchronized manual transmission, as well as for power distributors and intermediate gear, side gear in vehicles and machinery.

ZF TE-ML 05A, 16B, 17B, 19B, MAN 342 Type M1, MB 235.0, Ford SQM-2C-9002 AA, DTFR 12B100 (MB 235.0)

Art. No.: 1223206



RAVENOL Getriebeöl EPX

SAE 85W-140 | API GL-5 | MIL-L-2105D

Mineral multigrade gear oil for synchromesh and non-synchronized manual transmission, as well as for power distributors and intermediate gear, side gear in vehicles and machinery.

ZF TE-ML 05A, 16D, 21A, Ford M2C-9002A, MAN 342 Type M1, CS 3000B, Mack GO-G, GM

Art. No.: 1223211



RAVENOL Getriebeöl MZG

SAE 90 | API GL-4 | MIL-L-2105D

Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain.

MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02B, 16A, 17A, 19A, MB 235.1, Ford SQM-2C-9008A, DTFR 13B100 (MB 235.1)

Art. No.: 1223102

Power steering and special hydraulic oils

RAVENOL special hydraulic oils are used in the hydraulics of vehicles made by various manufacturers, such as level regulation, hydropneumatic suspension, steering systems, dampers, etc. according to the prescribed specifications of the aggregate or vehicle manufacturer. The special formulations guarantee outstanding performance in cold conditions and are therefore particularly suitable for use in cold countries.



RAVENOL GHA-F Gearbox Hydraulic Actuator Fluid

Special hydraulic oil for electrohydraulic actuators based on synthetic and mineral oil with ashless additives. For use in MCP electronically controlled transmissions of Peugeot/Citroën and Dualogic and Selespeed gearboxes of FIAT/Alfa Romeo. Optimum performance in electro-hydraulic and electronically controlled drives and circuit boards.

Peugeot/Citroën 9979.A4 for MCP Automated Gearbox, FIAT/Alfa Romeo 15081616 CS SPEED for Dualogic and Selespeed Gearbox, FIAT 9.55550-SA1 Nr. F005.F98

Art. No.: 1181201



RAVENOL AWD-H Fluid

Special high-performance transmission oil for Haldex's four-wheel, Quattro and 4motion powertrains.

VW G 052 175 A2, G 055 175 A2, G 060 175 A2, Volvo 31367940, GM 93165387, Opel 1940057, Land Rover LR 054941, LR 003136 (Haldex-Oil from 2011-2014)

Art. No.: 1211140



RAVENOL AWD-TOR Fluid

Special transmission oil for transfer cases of four-wheel drive systems from Torsen type of VW and AUDI. The recipe contains 4% of a special friction modifier.

Audi/VW G 055145 A2; SAF-AG4 + FM

Art. No.: 1211141



RAVENOL E-PSF Fluid

Special fully synthetic fluid for use in electro hydraulic servo steering.

Citroën DA 9730 A5, LDS 9979 A3; Fiat 9.55550-AG3; JTEKT EHS Elektro-Hydraulik Servolenkung (EHPS Electro-Hydraulic Power Steering); MAN M3289; Nissan E-PSF, 999MP-EPF00P, KLF51-00001; PSA S71 2710; Renault PSF Klasse 1 (Renault Laguna III); Toyota PSF-EH, 08886-01206.

Art. No.: 1181002



RAVENOL PSF-Y Fluid

Synthetic special fluid for servo steering for Volkswagen, Mercedes and Chrysler.

VW G009300A2, Mercedes A0009898803, MB 236.3, Chrysler 05098158A, MS-5931, MS-9933, MS-10838, 04883077, GM 9985010, 89020661, 1050017, Mopar 05142893AA, Texaco TL 4634, HONDA 08206-9002, 08285-P99-01Z-T1

Art. No.: 1211123



RAVENOL ESF Extra Servo Fluid

Special synthetic hydraulic oil with special formulation and high quality additives for excellent cold stability.

DTFR 31B120 (MB 345.0), Land Rover Cold Climate PAS Fluid 14315 LRN2261, MB 343.0, MB 344.0, MB 345.0, Opel 1940766, Peugeot/Citroën 9979.A1, SAAB 93160548, VOLVO 30741424, VW G 004 000

Art. No.: 1181102



RAVENOL Hydraulik PSF Fluid

Special synthetic hydraulic fluid for servo steering.

Honda PSF-S, Hyundai PSF-3, KIA PSF-III, Mazda PSF, Subaru PS Fluid, TOYOTA PSF-EH, CITROËN/PEUGEOT 9735EJ for C-Crosser and PEUGEOT 4007, MITSUBISHI DIAMOND PSF-2M

Art. No.: 1181000



RAVENOL AHC Fluid

Fully synthetic hydraulic fluid based on PAO (Poly-alpha-olefin) and Ester. Suspension fluid for active height control systems (AHC) for vehicles from Toyota and Lexus as well as for HBMC systems (Hydraulic Body Motion Control) from Nissan and Infiniti.

Toyota AHC-Fluid (08886-81260 / 08886-01805); Nissan KLG01-00501EU, KLG01-00502

Art. No.: 1324101



RAVENOL LHM+ Fluid

API ISO 7308 | DIN 51 524 Teil 2

Special hydraulic fluid designed for use in vehicles of the PSA group (Citroën, Peugeot).

PSA Standard B 71 2710

Art. No.: 1181110



RAVENOL SSF Special Servolenkung Fluid

API ISO 7308 | DIN 51 524 Teil 2

Special hydraulic fluid for use as a central hydraulic fluid in power steering, level control, hydraulic brake booster, hydro-pneumatic suspension. For VW, Audi, Seat, Skoda.

VW TL 521 46 (G002 000, G004 000 M2), MB 343.0 / MB 344.0 / 345.0, CHF11S, CHF202, Opel 1940 715, Opel 1940 766, Ford M2C204-A2, Ford 1 384 110, ZF TE-ML 02K, SAAB 93160548, BMW 83 29 0 429 576, Citroën 9979 A1, Land Rover Cold Climate PAS Fluid 14315 LRN2261, VOLVO 30741424, Hyundai/Kia PSF-4 03100-00130, Toyota PSF NEW-W, Toyota 08886-01115

Art. No.: 1181100

Hydraulic oils

The most frequently used hydraulic fluids (pressure fluids) are manufactured using a mineral oil-based formulation with the corresponding additives. They are also referred to as hydraulic oils. The requirements for these hydraulic oils are stipulated in ISO 6743/4 with the label HL, HM, HV. In Germany, the designations H, HL, HLP, HVLP according to DIN 51 524 are generally used.

H: with no active substances, corresponding to lubricants according to DIN 51 517. Today, these hydraulic oils are barely still in use.

HL: with active substances to increase the corrosion protection and resistance to ageing (also HL according to DIN 51 524 Part 1). They are used at pressures of up to 200 bar and sufficient for ordinary thermal strain.

HLP: with active substances to increase the corrosion protection, ageing resistance and to reduce seizure wear in the mixed friction area (according to DIN 51 524, Part 2).

HVLP: with active substances to increase the corrosion protection, ageing resistance and to reduce seizure wear in the mixed friction area and to improve the viscosity-temperature behaviour (according to DIN 51 524, Part 3).

HLPD: with active ingredients to increase the corrosion protection, ageing resistance and detergent additives (not subject to any norms).



RAVENOL Hydrauliköl TS 10

ISO VG 10 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Vickers-Pump-Test, DENISON HF-2, HF-0, MIL-H 24 459, AFNOR NFE 48 603 HM, HV, SIS SS 155434, Denison Filterability TP 02100, Hoesch HWN 2333, U.S. Steel 126 u. 127, CETOP RP 91 H (HM, HV), Sperry Vickers M-2950-S u. I-286-S, FZG 12, Cincinnati Milacron P-68, 69, 70, MIL-H 24 459, Eickhoff, Voith

Art. No.: 1323101



RAVENOL Hydrauliköl TS 15

ISO VG 15 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached, VDMA 24318, ASTM D6158, ISO 11158 HM, SAE MS1004 Typ HM MIL-H 24 459, AFNOR NFE 48 603 (HM), GB 111118.1 L-HL, Swedish Standard SS 155434, DENISON HF-2 und HF-0, Cincinnati Milacron P-68, 69, 70, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Metso, Sauer-Danfoss 520L0463

Art. No.: 1323102





RAVENOL Hydrauliköl TS 22

ISO VG 22 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

AFNOR NFE 48 603 (HM); ASTM D6158; Bosch Rexroth RE 90220; CETOP RP 91H HM; Cincinnati Milacron P-68, 69, 70; Danieli Hydraulics; DENISON HF-2 und HF-0; FZG-Test A 8,3/90: 12th load level is reached; GB 11118.1 L-HL; ISO 11158 HM; Metso; MIL-H 24 459; SAE MS1004 Typ HM; Sauer-Danfoss 520L0463; Swedish Standard SS 155434; VDMA 24318; Vickers-pump-test

Art. No.: 1323103



RAVENOL Hydrauliköl TS 32

ISO VG 32 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, JCMAS HK, MIL-PRF-17672E, SAE MS1004 HM, SEB 181 222, US Steel 126, 127, 136, VDMA 24318, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-38/P-68, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463

Art. No.: 1323104



RAVENOL Hydrauliköl TS 46

ISO VG 46 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, JCMAS HK, MIL-PRF-17672E, NATO H-573, SAE MS1004 HM, SEB 181 222, US Steel 126/127/136, VDMA 24318, Arburg, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-55, P-70, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463, ZF TE-ML 07H

Art. No.: 1323105



RAVENOL Hydrauliköl TS 68

ISO VG 68 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, MIL-PRF-17672E, SAE MS1004 HM, SEB 181 222, Swedish Standard SS 155434, US Steel 126, 127, 136, VDMA 24318, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-55, P-70, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463, ZF TE-ML 07H, SIS SS 155434, Hoesch HWN 2333

Art. No.: 1323106



RAVENOL Hydrauliköl TS 100

ISO VG 100 | HLP | DIN 51 524 Teil 2, ISO 6743-4 HM

Mineral hydraulic oil. Wide range of industrial applications.

Eickhoff-Bergbautechnik, Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, SAE MS1004 HM, SEB 181 222, Swedish Standard SS 155434, VDMA 24318, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Sauer-Danfoss 520L0463

Art. No.: 1323107



RAVENOL Hydrauliköl TSX

HVLP | DIN 51 524 Teil 3

Mineral hydraulic oil with high viscosity index (VI). Excellent for heavy loaded hydraulic plants in industry, earth moving machinery and agricultural machines.

ISO 6743-4-HV; 15: AFNOR NFE 48-603 HV, AFNOR NFE 48-690/1; Bosch Rexroth RE90220; GB 11118.1 L-HV; CETOP RP 91H HV; ISO 11158 HV; SAE MS1004; Sauer-Danfoss 520L0463; 32: AFNOR NFE 48-603 HV, AFNOR NFE 48-690/1; CETOP RP 91H HV; GB 11118.1 L-HV; ISO 11158 HV, ISO 6743-4 HV; JCMAS HK VG32W; SAE MS1004; US Steel 127/136; Bosch Rexroth RE90220; Denison HF-0/HF-1/HF-2; Eaton Vickers I-286-S/M-2950-S; Fives Cincinnati P-68; General Motors LH-03-1-04/LS-2; Sauer-Danfoss 520L0463; 22, 46, 68, 100: AFNOR 48 603 HV; CETOP RP 91H-HV; DENISON HF-0, HF-1, HF-2; FZG 12; General Motors LH-04-1, LH-06-1, LH-15-1; Sperry Vickers 1-286-S, M-2950-S; US Steel 127, 136

Art. No.: 1323202	ISO VG 15	Art. No.: 1323204	ISO VG 32	Art. No.: 1323206	ISO VG 68
Art. No.: 1323203	ISO VG 22	Art. No.: 1323205	ISO VG 46	Art. No.: 1323207	ISO VG 100



RAVENOL Hydraulikoel HVLP-D

HVLP-D | DIN 51 524 Teil 3

Detergent hydraulic oil with a high viscosity index for use in a wide temperature range. Designed for heavily loaded hydraulic systems of agricultural, forestry and construction machinery.

32: AFNOR 48-603, AFNOR 48-690/1; CETOP RP 91H (HV); ISO 11158 HV, ISO 6743-4 46, 68: CETOP RP 91H-HV, General Motors LH-04-1, General Motors LH-06-1, General Motors LH-15-1, ISO 6743/4-HV, DENISON HF-1, HF-0, HF-2, Sperry Vickers M-2950-S, Sperry Vickers 1-286-S, AFNOR 48 603 HV, US Steel 136

Art. No.: 1323364	ISO VG 32	Art. No.: 1323366	ISO VG 68
Art. No.: 1323365	ISO VG 46		



RAVENOL Hydrauliköl HLP-D

HLPD | DIN 51 524 Teil 2

Hydraulic oil HLPD for use in agricultural, construction and plant machinery. HLP-D 32 is zinc and ash free.

MAN N 698, DENISON HF-0, Daimler DBL 6721 32 additional: AFNOR NF E 48-603 HM; ASTM D6158; DIN 51524-2 HM (exceeds the requirements for hydraulic oils HLP); ISO 11158 HM, ISO 6743-4 HM; JCMAS HK; SAE MS1004 HM; SEB 181 222; US Steel 127/136; VDMA 24318

Art. No.: 1323303	ISO VG 22	Art. No.: 1323305	ISO VG 46
Art. No.: 1323304	ISO VG 32	Art. No.: 1323306	ISO VG 68



RAVENOL Hydrauliköl TS AF 32

ISO VG 32 | HLP | DIN 51 524 Teil 2

High quality zinc-and ash-free hydraulic oil, alloyed on sulfur / phosphorus-basis, which has been designed specifically for use in the metal industry.

32: DIN 51 524-2, AFNOR NF E 48-603 HM, ASTM D6158, GB 111118.1 L-HM, ISO 11158/6743-4 HM, SAE MS1004 HM, US Steel 127/136; Denison HF-0, HF-1, HF-2; Eaton Vickers I-286-S, M-2950-S; Fives Cincinnati P-38, P-68; FZG-Test A 8,3/90: The 12th load level is easily achieved; GM LH-03-1-04; MAN N 698; Müller Weingarten; 46, 68: SEB 181.222, 181.226; Thyssen TH-N256-142; Timken-Test nach DIN E 51434; Vickers-PumpentestSEB 181.222, 181.226, Vickers-Pumptest, Timken-Test acc. to DIN E 51434, MAN N 698, FZG-Test A 8,3/90: 12. Loadstep

Art. No.: 1323124



RAVENOL Hydrauliköl TS AF 46

ISO VG 46 | HLP | DIN 51 524 Teil 2

High quality zinc-and ash-free hydraulic oil, alloyed on sulfur / phosphorus-basis, which has been designed specifically for use in the metal industry.

32: DIN 51 524-2, AFNOR NF E 48-603 HM, ASTM D6158, GB 111118.1 L-HM, ISO 11158/6743-4 HM, SAE MS1004 HM, US Steel 127/136; Denison HF-0, HF-1, HF-2; Eaton Vickers I-286-S, M-2950-S; Fives Cincinnati P-38, P-68; FZG-Test A 8,3/90: The 12th load level is easily achieved; GM LH-03-1-04; MAN N 698; Müller Weingarten; 46, 68: SEB 181.222, 181.226; Thyssen TH-N256-142; Timken-Test nach DIN E 51434; Vickers-PumpentestSEB 181.222, 181.226, Vickers-Pumptest, Timken-Test acc. to DIN E 51434, MAN N 698, FZG-Test A 8,3/90: 12. Loadstep

Art. No.: 1323125



RAVENOL Hydrauliköl TS AF 68

ISO VG 68 | HLP | DIN 51 524 Teil 2

High quality zinc-and ash-free hydraulic oil, alloyed on sulfur / phosphorus-basis, which has been designed specifically for use in the metal industry.

32: DIN 51 524-2, AFNOR NF E 48-603 HM, ASTM D6158, GB 111118.1 L-HM, ISO 11158/6743-4 HM, SAE MS1004 HM, US Steel 127/136; Denison HF-0, HF-1, HF-2; Eaton Vickers I-286-S, M-2950-S; Fives Cincinnati P-38, P-68; FZG-Test A 8,3/90: The 12th load level is easily achieved; GM LH-03-1-04; MAN N 698; Müller Weingarten; 46, 68: SEB 181.222, 181.226; Thyssen TH-N256-142; Timken-Test nach DIN E 51434; Vickers-PumpentestSEB 181.222, 181.226, Vickers-Pumptest, Timken-Test acc. to DIN E 51434, MAN N 698, FZG-Test A 8,3/90: 12. Loadstep

Art. No.: 1323126



RAVENOL Frostlube F 12

ISO VG 12 | ISO 6743/4-HV

High quality, anti-wear hydraulic oil with a very high viscosity index, good shear stability and excellent low-temperature properties for application in extremely low temperatures, e.g. equipment in refrigerated warehouses or mobile facilities, which are used outdoors under extreme winter conditions.

Art. No.: 1323350



RAVENOL Frostlube F 22

ISO VG 22 | ISO 6743/4-HV

High quality, anti-wear hydraulic oil with a very high viscosity index, good shear stability and excellent low-temperature properties for application in extremely low temperatures, e.g. equipment in refrigerated warehouses or mobile facilities, which are used outdoors under extreme winter conditions.

Art. No.: 1323351



RAVENOL Bio-Hydrauliköl (auf Esterbasis)

HEES | DIN 51 524 VDMA 24532, VDMA 24570, VDMA 24568

Bio-hydraulic oil based on esters. Use in hydraulic systems of sewage treatment plants, dredgers and dredging, hydraulic lock and river weirs, pipes and tunneling, hydraulic power packs in the woods and fields, earth moving equipment in water, forestry equipment.

ISO 15380, Rexroth Bosch Group: RE / RD 90221-01/02.10, SP Technical Research Institute, Sweden (Swedish Standard 15 54 34), fulfils the requirements of “Blauen Engel” (Environmetal friendly)

Art. No.: 1321104 ISO VG 32
Art. No.: 1321105 ISO VG 46

Art. No.: 1321106 ISO VG 68

Industrial oils, specialities

RAVENOL industrial oils and specialties are developed for modern machines and withstand the highest loads. Their superior properties exceed manufacturer specifications. Higher speeds and forces increase the strain on lubricants, but RAVENOL industrial oils offer excellent protection and extend oil change intervals. They reduce maintenance costs and ensure optimum wear protection even under extreme conditions thanks to their outstanding long-life properties. In this way, they contribute to increased performance, higher profitability and longer machine service life.



RAVENOL Calibration Fluid 2.5

ISO-Norm 4113-CV-AW

Test fluid for the calibration of diesel injection pumps from Bosch (VS 15665-OL-CV), MTU, MAN and Volkswagen, as corrosion preventive oil for the internal preservation or conservation of fuel systems from MTU, Lucas CAV, MB DBL 6513.

Art. No.: 1350131



RAVENOL Turbo Oil T32

Siemens TLV 9013 04, TLV 9013 05 |
DIN 51515 Teil 1 (L-TD), Teil 2 (L-TG)

High quality lubricating oil for gas and steam turbines as well as for turbo compressors with and without gears.

MIL-L-17672 D, British Standard BS 489, General Electric GEK 32568 A/C, CEGB Standard 207001, Brown Boveri HTGD 90117, U.S.Steel 120, Westinghouse Electric Corp. Turbine Oil Spec., Alstom HTGD 90117 V0001 S, Solar ES 9 224 requirements for gas turbine oils Class II (ISO VG 32).

Art. No.: 1331114



RAVENOL Turbo Oil T46

Siemens TLV 9013 04, TLV 9013 05 |
DIN 51515 Teil 1 (L-TD), Teil 2 (L-TG)

High quality lubricating oil for gas and steam turbines as well as for turbo compressors with and without gears.

MIL-L-17672 D, British Standard BS 489, General Electric GEK 46568 A/C, CEGB Standard 207001, Brown Boveri HTGD 90117, U.S.Steel 120, Westinghouse Electric Corp. Turbine Oil Spec., Alstom HTGD 90117 V0001 S, Solar ES 9 224 requirements for gas turbine oils Class II (ISO VG 46)

Art. No.: 1331115



RAVENOL Kompressorenöl PAO VDL

DIN 51 506 VDL

Premium quality compressor oil which is specially designed to extend the service life time of compressors. Especially suitable in rotary screw air compressors.

Art. No.: 1330115 ISO VG 46
Art. No.: 1330116 ISO VG 68
Art. No.: 1330117 ISO VG 100
Art. No.: 1330118 ISO VG 150



RAVENOL Getriebeöl CLP

DIN 51 517 Teil 3, FZG 12, US Steel 224

CLP Gear oil for the use in industrial gearboxes.

US Steel 224, AGMA 9005-D94, Cincinnati Milacron, Clean Panel Coker, S-200 Oxidation Tubes

Art. No.: 1332106 ISO VG 68
Art. No.: 1332107 ISO VG 100
Art. No.: 1332108 ISO VG 150
Art. No.: 1332109 ISO VG 220
Art. No.: 1332110 ISO VG 320
Art. No.: 1332111 ISO VG 460
Art. No.: 1332112 ISO VG 680



RAVENOL Kompressorenöl VDL

DIN 51 506 VDL

Use in stationary and mobile compressors, lubrication of engines and diesel engines.

ATLAS COPCO, ABAC, ALUP, CompAir, FIAC, FINI, KAESER

Art. No.: 1330100 ISO VG 100
Art. No.: 1330101 ISO VG 150
Art. No.: 1330102 ISO VG 220



RAVENOL Getriebeöl PAO CLP

DIN 51 517 Teil 3, US Steel 224

Premium performance, zinc- and ash-free extreme pressure lubricant designed for enclosed industrial gears and bearings operating under severe load conditions and in wide extremes of temperature.

Eickhoff mining technology: Confirmation for use in gear housings, Flender Industrial Gear GE787/788 and GA880 components, Eickhoff Gear, Jahnel Kestermann, AGMA 9005-E02 (EP), David Brown S1.53.101 Type E, Cincinnati Machine P-74

Art. No.: 1332206 ISO VG 68
Art. No.: 1332208 ISO VG 150
Art. No.: 1332209 ISO VG 220
Art. No.: 1332210 ISO VG 320
Art. No.: 1332211 ISO VG 460
Art. No.: 1332212 ISO VG 680



RAVENOL SCR Screw Kompressorenöl

DIN 51 524, Teil 2

Optimal alloyed screw compressor oil, with a high performance level and a wide application area of the whole industry.

Vickers-Pumpentest , FZG-Test A 8,3/90: 12th load level is reached

Art. No.: 1330304 ISO VG 32
Art. No.: 1330305 ISO VG 46
Art. No.: 1330306 ISO VG 68
Art. No.: 1330307 ISO VG 100



RAVENOL SCR PAO Screw Kompressorenöl

DIN 51 506 VDL

Fully synthetic compressoroil, which is specifically designed to provide effective lubrication in rotary screw air compressors. Excellent thermal stability for reducing carbon deposit formation.

Art. No.: 1330314 ISO VG 32
Art. No.: 1330315 ISO VG 46
Art. No.: 1330316 ISO VG 68



RAVENOL ODL Druckluftöl

Special-compressed-air-oil for pneumatic tools of all systems. Bonds condensed water, has an excellent corrosion and wear protection.

Atlas Copco, Festo, Hilti, Bosch, Makita, Black & Decker, Cress, Ryobi, DeWalt, Sumake, Seno, Hitachi.

Art. No.: 1323404 ISO VG 32
Art. No.: 1323405 ISO VG 46
Art. No.: 1323407 ISO VG 100



RAVENOL Wärmeträgeröl

Mineral oil-based heat transfer oil for use in heat transfer systems with forced circulation.

DIN 51 522, Heat transfer fluid Q32 according to DIN 51 502

Art. No.: 1330210 ISO VG 32
Art. No.: 1330212 ISO VG 68



RAVENOL Vakuumpumpenöl ISO VG

ISO 6743-3 DVA & DVC | DIN 51 506 VC

Vacuum pump oil.

Vickers Vane Pump, AFNOR NF E 48-603 (HM, HV), Leybold-Heraeus 175, Edwards Ultragrade 19, Alcatel 100, 119 and 120, PVR Rotant, Becker vacuum pumps, Hyvac 93055, Ulvac 100, BUSCH VM and VMH, Balzers P3, Kinney Type A, Beckmann 19, Fisherbrand 19, SAVANT SPO-1

Art. No.: 1330704 ISO VG 32
Art. No.: 1330705 ISO VG 46
Art. No.: 1330706 ISO VG 68
Art. No.: 1330707 ISO VG 100
Art. No.: 1330708 ISO VG 150



RAVENOL Sägekettenöl S 85

Chain saws all models.

Art. No.: 1350300



RAVENOL Traföl 1000P

IEC 60296 (03)

Insulating oil for transformers and switches.

Art. No.: 1330201



RAVENOL Gatteröl

ISO VG 320

Adhesive-capable lubricating oil for use in (open) bearings from metal finishing industries, as well as textile, packaging and web presses.

Art. No.: 1350370



RAVENOL Feinmechaniköl

Universal fluid for bicycles, sewing machines, household and office applications, locks, tool, etc..

Art. No.: 1350360



RAVENOL Bettbahnöl

DIN 51 502 CGLP, DIN 51 517-3 CLP, DIN 51 524-2 HLP

Way-sliding oil for heavy-duty performance.

32: AFNOR E 60-203 L-G/HG, GB 11118.1-94 L-HG/HM, ISO 6743-6 CKC, ISO 6743-13 GA/GB; ISO 11158 HG/HM, ISO 19378 GA/GB, SAE MS 1007 Type E, SH/T 0361-98 L-G, Eaton Vickers M-2950-S, General Motors LS2 LW-03-1-04, Fives Cincinnati P-53

Art. No.: 1350374 ISO VG 32
Art. No.: 1350375 ISO VG 46
Art. No.: 1350376 ISO VG 68
Art. No.: 1350377 ISO VG 150
Art. No.: 1350378 ISO VG 220



RAVENOL Super Sägekettenöl

Readily biodegradable chainsaw oil.

"Blauer Engel" acc. to RAL-ZU 48, KWF-Test with test-no. 4979, EU Ecolabel with Test-No. DE/027/187

Art. No.: 1350301



RAVENOL Turbinenöl T32

ISO VG 32, 6743-0 | DIN 51 515

High quality turbine oil.

BS 489, CEEB Standard 207001, General Electric GEK 32568 A/C, MIL-L-17672 D, Siemens TLV 9013 04/01, Alstom HTGD 90117 V0001 S, Brown Boveri HTGD 90117, Solar ES 9 224 Classe II (ISO VG 32), U.S. Steel 120, Westinghouse Electric Corp. Turbine Oil. Spec.

Art. No.: 1330354



RAVENOL Turbinenöl T46

ISO VG 46, 6743-0 | DIN 51515, Teil 1 (L-TD), Teil 2 (L-TG)

High quality turbine oil.

BS 489, CEEB Standard 207001, General Electric GEK 32568 A/C, MIL-L-17672 D, Siemens TLV 9013 04/01, Alstom HTGD 90117 V0001 S, Brown Boveri HTGD 90117, U.S. Steel 120, Westinghouse Electric Corp. Turbine Oil. Spec.

Art. No.: 1330355



RAVENOL Turbinenöl T68

ISO VG 68, 6743-0 | DIN 51 515 L-TD

High quality turbine oil.

BS 489: 1999, Siemens TLV 9013 04, Alstom HTGD 90117

Art. No.: 1330356



RAVENOL Turbinenöl T100

ISO VG 100, 6743-0 | DIN 51 515 L-TD

High quality turbine oil.

BS 489: 1999, Siemens TLV 9013 04

Art. No.: 1330357

Lubricating greases

RAVENOL offers a wide range of lubricating greases for the widest variety of applications, all tailored to use on land and water.



RAVENOL Mehrzweckfett OML

NLGI 2 | Specification acc. to DIN 51 502: K2K-30

Lithium saponified multipurpose grease for the lubrication of lightly loaded bearings and all machine parts.

ISO 6743-9: ISO-L-XCCEA2

Art. No.: 1340101



RAVENOL Mehrzweckfett mit Graphit

NLGI 2 | Specification acc. to DIN 51 502: KPF2K-30

Lithium saponified multipurpose grease with finely divided graphite to increase the loading at very high temperatures. Designed for applications exposed to high temperatures and shock loadings.

ISO 6743-9: ISO-L-XCCFB2

Art. No.: 1340102



Lubricating greases

Lubricating greases are usually made up of oil and a thickener. A differentiation is made between the following:

1) Metal soap lubricating greases (Ca-, Al-, Ba-, Li-, Na-, Pb and complex soap lubricating greases) which are made up of fatty acids and lyes as metal soaps (thickening or swelling agents) and lubricating greases. Metal soap, lubricating oil and manufacturing process determine the structure, consistency, properties of use and type of application.

a) Lithium complex soap lubricating grease

Lithium complex soaps are complex lithium salt mixtures (i.e. mixtures of different, usually organic, acids that are saponified with lithium hydroxide) that are used as thickening agents in lubricating greases. Lubricating greases with this base are characterised by a high dripping point and good water resistance as well as wide temperature ranges for application. They serve as the basis for the majority of RAVENOL greases.

b) Calcium complex soap lubricating greases

Calcium complex soaps are very water-resistant lubricating greases with good corrosion-protection properties and high load-bearing capacities. Mixtures of different, usually organic, acids saponified with calcium hydroxide are used as thickening agents. With longer exposure to higher temperatures, the consistency will thicken. They are used in the RAVENOL marine grease, for example.

2) Soap-free lubricating greases with inorganic gelling agents (silica gel, silicate gel, bentonite) or organic thickening agents (polyethylene, polypropylene, polyurea etc.) and lubricating oils.

3) Soap-free lubricating greases which are made up of organic or anorganic thickening agents and synthetic oils (ester, silicone, polyglycol, polyphenyl ether oils).

Upper operating temperatures and behaviour when exposed to water at test temperatures

Additional letter	Upper operating temperature	Behaviour when exposed to water at test temperatures according to DIN 51807 of	
	in °C	40 °C	90 °C
C	60	0 or 1	
D	60	2 or 3	
E	80	0 or 1	
F	80	2 or 3	
G	100		0 or 1
H	100		2 or 3
K	120		0 or 1
M	120		2 or 3
N	140		
P	160		
R	180		
S	200		
T	220		
U	over 220		

0 – no change 1 – little change 2 – moderate change 3 – significant change

- Labelling according to DIN 51 502 (German Institute for Standardisation) is intended to enable the uniform and unambiguous designation of lubricating greases to avoid damage due to confusion. RAVENOL lubricating greases are used for permanent lubrication of roller and plain bearings, sliding surfaces, gear wheels / tooth segments, automatic belt mechanisms and hinges.
- Our RAVENOL greases are available, depending on the type, in different container sizes in tubes of 50g, 90g, 100g, cartridges of 400g, buckets of 1kg, 5kg, 10kg, 15kg and barrels of 180kg. In the event of higher demand, additional packaging units are available on request.

Labelling of lubricating greases according to DIN 51 502:

Lubricating grease for	
K	Roller bearings, plain bearings, sliding surfaces according to DIN 51 825
G	Closed transmissions DIN 51 826 OG - open transmissions
M	Sliding bearings and seals (lower requirements than for K)
Additional letters for the base oil type and additive	
P	EP/AW Additive
F	Solid lubricants, e.g. MoS ₂
E	Ester oils
FK	Hydrofluorocarbons
HC	Synthetic hydrocarbons
PH	Phosphoric acid esters
PG	Polyglycols
SI	Silicon oils
X	Other

Classifications of greases by NLGI numbers

NLGI-No.	Appearance	Worked penetration in 0,1 mm DIN ISO 2137	Application
000	fluid	445/475	Centralized grease system and gear greases
00	semi-fluid	400/430	
0	very soft	355/385	Greases for bearings
1	soft	310/340	
2	"normal" grease	265/295	
3	firm	220/250	
4	very firm	175/205	Block greases
5	hard	130/160	
6	very hard	85/115	

NATIONAL LUBRICATING GREASE INSTITUTE (NLGI) - Classification
 NLGI 1 – used in winter NLGI 00 and 000 – semi-fluids for centralized grease system
 NLGI 2 – multi-purpose
 NLGI 3 – used in summer



RAVENOL Mehrzweckfett mit MoS₂

NLGI 2 | Specification acc. to DIN 51 502: KPF2K-30

Lithium saponified grease with molybdenum sulfide MoS₂ for lubricating hard to reach places, and reciprocating machine parts for chassis lubrication. Salt water resistant.

ISO 6743-9: ISO-L-XCCIB2

Art. No.: 1340103



RAVENOL Wälzlagerfett LI-86

NLGI 3 | Specification acc. to DIN 51 502: K3K-30

Lithium saponified bearing grease for the lubrication of high-speed roller and ball bearings. Especially for chassis lubrication, lubrication of construction equipment and agricultural equipment. Highly resistant to dirt and water.

ISO 6743-9: ISO-L-XCCFA3

Art. No.: 1340105



RAVENOL Super EP-Langzeitfett

NLGI 2 | Specification acc. to DIN 51 502: KP2K-30

Lithium saponified grease for long-term lubrication of heavily loaded plain and rolling bearings, even under the influence of moisture, vibration and shock loads.

ISO 6743-9: ISO-L-XCCFB2, LOVAT LOV-204

Art. No.: 1340104



RAVENOL KFZ-Fließfett ZSA

NLGI 00 | Specification acc. to DIN 51 502: GP00K-30

Lithium soap EP grease for central lubrication systems mobile. It is recommended for FF VOGEL central lubrication systems ZSA, Mercedes-Benz and MAN.

ISO 6743-9: ISO-L-XCCEB00, MAN 283 Li-P 00/000, MB 264.0, Willi Vogel, DTFR 33B100 (MB 264.0)

Art. No.: 1340107



RAVENOL LKW FETT BLAU

NLGI 2 | Specification acc. to DIN 51 502: KP2N-30

Blue colored lithium saponified multipurpose grease based on mineral oil for the lubrication of heavily loaded plain and rolling bearings of trucks and construction equipment, even under the influence of moisture, vibration and shock loads.

ISO 6743-9: ISO-L-XCDIB2, VOLVO STD „Lubricating grease 97720“, MAN 283 Li-P2, MB 267.0

Art. No.: 1340117



RAVENOL Polfett-Säureschutzfett

NLGI 2 | Specification acc. to DIN 51 502: K2K-30

Lithium saponified multi-purpose grease to protect contacts and metal parts from aggressive acids.

ISO 6743-9: ISO-L-XCCEA2

Art. No.: 1340115



RAVENOL Kupferpaste

NLGI 1-2 | Specification acc. to
DIN 51 502: KF1,5U-20

Lithium saponified grease with copper powder as a solid lubricant additive for the lubrication of screw and bushings in drill pipes.

ISO 6743-9: ISO-L-XBGEB1-2, Operational temperature range -20°C to +1100°C

Art. No.: 1340109



RAVENOL Extreme Pressure Grease EPG 3

NLGI 3 | Specification acc. to
DIN 51 502: KP3K-30

Lithium saponified universal high-performance grease for industrial and automotive applications. Used as a lubricant and bearing grease to lubrication points of motor vehicles, equipment, machinery, conveyor systems, construction equipment, etc..

ISO 6743-9: ISO-L-XCCEB3

Art. No.: 1340127



RAVENOL Hot Red Grease HRG 2

NLGI 2 | Specification acc. to
DIN 51 502: KP2P-35

Red colored lithium saponified high performance grease for the lubrication of high pressure loaded roller and plain bearings at elevated storage temperatures. Use for the wheel bearing lubrication of commercial vehicles and for high-speed passenger car wheel bearings.

ISO 6743-9: ISO-L-XCEE2, MAN 284 Li-H2, MB 265.1

Art. No.: 1340121



RAVENOL Marinefett

NLGI 2 | Specification acc. to
DIN 51 502: KP2K-30

Yellow-green, fluorescent, sea-water resistant lubrication grease with long-term adhesion properties. It is based on a special, calcium soap and a high-viscous synthetic base oil, as well as specifically selected active ingredients to protect against oxidation, rust and corrosion.

ISO 6743-9: ISO-L-XCCFB2

Art. No.: 1340128



RAVENOL Universal Fließfett

NLGI 0 | Specification acc. to
DIN 51 502: GP0K-30

High-quality lithium-saponified multi-purpose grease based on highly viscous paraffinic base oils with heavy metal and chlorine-free EP additives. Protects against corrosion and wear, has the ability to creep and is resistant to centrifugation.

ISO 6743-9: ISO-L-XCCFB0

Art. No.: 1340129



RAVENOL Hot Red Grease HRG 3

NLGI 3 | Specification acc. to
DIN 51 502: KP3P-25

Red colored lithium saponified high performance grease for the lubrication of high pressure loaded roller and plain bearings at elevated storage temperatures. Use for the wheel bearing lubrication of commercial vehicles and for high-speed passenger car wheel bearings.

ISO 6743-9: ISO-L-XBEEB3

Art. No.: 1340122



RAVENOL Arctic Green Grease AGG 2

NLGI 2 | Specification acc. to
DIN 51 502: KPE2K-60

Green colored lithium saponified high performance grease based on synthetic/native esters, synth. Hydrocarbons and high quality mineral oils. Suitable for the lubrication of high pressure loaded roller and plain bearings at very low temperatures.

ISO 6743-9: ISO-L-XECEB2

Art. No.: 1340126



RAVENOL Arctic Triploid Grease ATG 2

NLGI 2 | Specification acc. to
DIN 51 502: KPFE2K-60

Lithium saponified high performance grease with molybden disulfide MoS2 based on synthetic/native esters, synth. Hydrocarbons and high quality mineral oils. Suitable for the lubrication of high pressure loaded roller and plain bearings at very low temperatures.

ISO 6743-9: ISO-L-XECEB2

Art. No.: 1340125

Additives and brake fluids

RAVENOL's high-quality additives and brake fluids help to improve engine performance and actively contribute to retaining the vehicle's value.

Additives are active substances added to fuel, lubricants or engine coolants that emphasise their respective positive properties and at the same time reduce negative effects such as friction or increased soot emissions.



RAVENOL Petrol Octane Booster

Higher performance by increasing octanenummer. For performance enhancement with low grade fuel.

Art. No.: 1390209

RAVENOL Diesel Power Performance

Additive for all diesel engines for cleaning the diesel system, increasing operational safety and for the economic feasibility of diesel engines. Cleans and protects the diesel fuel system.

Art. No.: 1390246

RAVENOL Diesel Clean Extreme

Cleans the fuel injection system for low soot combustion. Prevents rattling noises and rough idling.

Art. No.: 1390247



RAVENOL Petrol Quality Protect

Improves starting behavior. Corrosion and aging protection during long standstill periods.

Art. No.: 1390208



RAVENOL Petrol Power Performance

Additive for petrol engines for cleaning all components in contact with fuel. Ensures a technically safe and economic operation. Also when using E10 petrol blend.

Art. No.: 1390206



RAVENOL Petrol Clean Extreme

Cleans and protects the injection system from corrosion. Removes resinous and varnish-type deposits on a microscale on fuel injection valves and fuel volume distributors and therefore, ensures precision control of fuel injection valves.

Art. No.: 1390207



RAVENOL Diesel Cetane Booster

Improves the ignition behavior, especially during cold starts. Increases the cetane rating of the diesel fuel.

Art. No.: 1390249



RAVENOL Diesel Quality Stabiliser

Optimized storage stability and antibacterial effect. For storage and overwintering purposes and to prevent start problems after longer standstill periods.

Art. No.: 1390244



RAVENOL Diesel DPF Cleaner

High-performance additive for reducing soot emissions from diesel vehicles with DPF. It reduces exhaust emissions and maintains engine performance when used regularly.

Art. No.: 1390250



RAVENOL Professional Engine Cleaner

Motor cleaning concentrate against black sludge. Effectively breaks down dirt accumulation and sludge deposits in the engine compartment using intensive-cleaning tensides and removes these effectively when draining used oil.

Art. No.: 1390323



RAVENOL Professional Radiator Stop Leak

Seals small leaks, safe and fast to increase operational safety.

Art. No.: 1390301



RAVENOL Professional Radiator Cleaner

Cleaning concentrate for the cooling and heating system. Breaks down and binds greasy and oily deposits in radiators, heating systems and pipelines.

Art. No.: 1390302



RAVENOL Adblue®

Synthetically produced urea solution (32.5%) to reduce nitrogen oxides in diesel engines.

ISO 22241, AUS 32 (CEFIC)

Art. No.: 1390600



RAVENOL AdBlue® Clean & Protect

Specially developed active ingredient for regular use in systems with SCR catalytic converters. Cleans AdBlue® /urea dosing systems and SCR catalytic converters and prevents crystal formation, thus preventing damage caused by clogging.

Art. No.: 1390601



RAVENOL AdBlue® Clean & Protect Premix

Specially developed active ingredient for regular use in systems with SCR catalytic converters. Cleans AdBlue® /urea dosing systems and SCR catalytic converters and prevents crystal formation, thus preventing damage caused by clogging.

Art. No.: 1390602



RAVENOL ATF Flush

Active ingredient concentrate for the cleaning of all types of automatic transmissions. It protects against corrosion and premature wear. Suitable for use with the RAVENOL Dynamic Exchanger.

Art. No.: 1390502



RAVENOL Motobike System Cleaner Shot

Fuel additive with high levels of cleaning and corrosion-protecting additives for all motorcycle gasoline injection engines, which increases the performance of the engine.

Art. No.: 1390401



RAVENOL Motobike Engine Cleaner Shot

Highly effective cleaning concentrate with lubricating components for the efficient cleaning of all motorcycle engines (with and without catalytic converter).

Art. No.: 1390402



RAVENOL DOT 4

ISO 4925 | FMVSS 116 DOT 4

DOT 4 Brake fluid for all vehicles with ABS-Characteristics.

SAE J1704

Art. No.: 1350601



RAVENOL DOT 4 LV

ISO 4925 (6) | FMVSS 116 DOT 4

Brake and Clutch Fluid which conforms to and exceeds the latest ISO 4925 Class 6 standard. Especially suitable for low temperatures.

SAE J 1703, SAE J 1704 and ISO 4925 (classes 3, 4 & 6)

Art. No.: 1350605



RAVENOL DOT 5.1

ISO 4925 | FMVSS 116 DOT 5.1

DOT 5.1 Brake fluid for all vehicles with ABS-characteristics, that require this specification.

SAE J1704

Art. No.: 1350602

Accessories and workshop equipment

These are the must-have products for every workshop. They make day-to-day work on vehicles easier and are perfect to use in conjunction with RAVENOL products.



RAVENOL Feinmechaniköl

Universal fluid for bicycles, sewing machines, household and office applications, locks, tool, etc..

Art. No.: 1350360



RAVENOL Fettpresse RAVENOL Hydraulik-Mundstück

Hand operated lever cartridge pump for greases with armor tube.

Art. No.: 1370040
Art. No.: 1370044



RAVENOL Ölfasspumpe

Dispensing telescopic oil hand pump. Fits most drum sizes from 60L – 208L.

Art. No.: 1370190



RAVENOL Düsenrohr/ Panzerschlauch

Nozzle tube suitable for hand lever pump (Art. 1370040).

Art. No.: 1370041
Art. No.: 1370042-30 cm
Art. No.: 1370043-50 cm



RAVENOL Messkanne

Jug cap with measuring bar. Available in 500 ml, 1 L and 2L.

Art. No.: 1370052 500 ml
Art. No.: 1370053 1L
Art. No.: 1370054 2L



RAVENOL Plastik-Trichter o. Sieb gerade 50 mm, 75 mm, 100 mm, 120 mm, 150 mm

Plastic-funnel without sieve is suitable for filling in all kinds of liquids.

Art. No.: 1370081 50 mm
Art. No.: 1370082 75 mm
Art. No.: 1370083 100 mm
Art. No.: 1370084 120 mm
Art. No.: 1370085 150 mm



RAVENOL Plastik-Trichter m. Messingsieb 200 mm, 250 mm

Plastic funnel with brass sieve is suitable for filling in all kinds of liquids.

Art. No.: 1370086
Art. No.: 1370087



RAVENOL Plastik-Trichter abg. Ausl. + Sieb 160 mm

Plastic funnel with angel leak and brass sieve of 160 mm is suitable for filling in all kinds of liquids.

Art. No.: 1370110



RAVENOL Plastik-Trichter flex. Rohr + Sieb 160 mm

Plastic funnel with flexible pipe and brass sieve of 160 mm is suitable for filling in all kinds of liquids.

Art. No.: 1370120



Ölverkaufs-Ständer (Metall)

Oil display stand (metal) with three levels for different packages like 1L, 4L, 5L, 7L. Easy to assembly, incl. screw wrench. Optional equipment: Art. 1370198 Rollen-Set: a package of four rolls, therefrom two with brakes.

Art. No.: 1370199



RAVENOL Ölverkaufs-Ständer (Pappe)

Wing display in carbon look for motor oil cans. Side walls with plastic profile edges (black). The complete display is coated with high gloss foil. Flexible construction, easy to assemble.

Art. No.: 1370200



RAVENOL Bag-in-Box-Ständer

Metal outer box on castors Powder coated in RAVENOL blue Holding devices for ten or six bag-in-box

Art. No.: 1370220
Art. No.: 1370221



RAVENOL Mehrzweckwanne 7l

Multi purpose tub for oil change use and many other application fields. With red strainer, usefull spout and eyelet for suspending.

Art. No.: 1370170



RAVENOL Fluid Syringe with Discharge

A transparent plastic oil extractor pump with an oil syringe and a container with a capacity of approx. 1 L. Using this product, oils and other liquids can be extracted out of the attached container and also refilled using pressure.

Art. No.: 1370181



RAVENOL Utility In & Out Fluid Syringe

A transparent oil extractor pump with a plastic oil syringe which can be used to extract and refill oils or other fluids. Capacity 0,35L.

Art. No.: 1370180



RAVENOL Auslaufhahn

Dispensing tap, to fill
-Chemicals
-Disinfectants
-Cleaners
-Lubricants, engine- and transmission oils
-Liquid foods
-Water

Art. No.: 1370310
Art. No.: 1370330 (Auslaufhahn 3/4 Zoll f. 60 l / 200 l Blechfass)



RAVENOL Druckpumpzerstäuber

Plastic pressure sprayer which can be flexibly used for a range of tasks. Maximum capacity 0.9 L at a pressure of 3 bar.

Art. No.: 1370351



RAVENOL Oelbindemittel

RAVENOL Oelbindemittel is a highly effective multi-absorbent with a binding capacity of 9,9L per 15L bag: grain size: 0.125 - 4mm, 100% organic, floatable binder, type I, II, III R, SF.

RAVENOL Oelbindemittel is a mobile first aid and is designed for smaller areas. It takes effect within a few seconds and can absorb a variety of chemicals in addition to oil, including: lubricants, liquids, coolants, fuels, oil paints, aerosols, etc. and thus ensures safety and cleanliness in the workplace.

Art. No.: 1370613



RAVENOL Car Organizer Bag

The durable and versatile RAVENOL Car Organizer Bag provides 27 liters of space to store oil, cleaners, additives, and tools, ensuring a tidy trunk. Sturdy, non-slip, and easy to clean – a must-have for every driver!

Art. No.: 1510221



RAVENOL Microfiber Cloths Car Care Set

The RAVENOL Microfiber Cloths Car Care Set offers everything for thorough vehicle care with specially developed cloths for rims, dashboards, insects, upholstery, paint, and glass. A convenient polyester organizer bag is included for easy storage and transport.

Art. No.: 1530538



RAVENOL Microfiber Drying Towel Twisted Loop

The RAVENOL Microfiber Drying Towel Twisted Loop offers exceptional absorbency and a scratch-free finish, making it ideal for achieving spotless results. Its durable, lint-free, and eco-friendly design ensures long-lasting performance, making it a must-have for professional and at-home car care routines.

Art. No.: 1530596



RAVENOL Brush Detailing Set

The RAVENOL Brush Detailing Set provides precise tools with various types of bristles for thorough and gentle vehicle care, both inside and out. With durable bristles and a sturdy handle, it ensures scratch-free cleaning of displays, rims, engine compartments, and more.

Art. No.: 1530597



RAVENOL Work Gloves

The RAVENOL work gloves combine protection and comfort, making them ideal for manual tasks and ensuring full freedom of movement. Made from flexible polyester-elastane with a latex coating, they are lightweight, durable, and available in a one-size-fits-all design.

Art. No.: 1520225



RAVENOL Microfiber Glove

The RAVENOL Microfiber Glove features soft stretch microfiber, enabling thorough and gentle cleaning, especially in hard-to-reach areas. Its flexible one-size-fits-all design and scratchfree properties make it perfect for rims, paint inspections, and interior detailing.

Art. No.: 1530598

Care products and cleaners

Care products for your vehicle complete the professional RAVENOL lubricant range for our clients. In addition to high-quality cleaners, you will also find care products that prolong the life of your car, motorbike or watercraft.



RAVENOL Kaltreiniger

Cleaner for all kind of engines, mechanical parts etc..
Removes all traces of oil, fats, fuel, clutch and brake abrasion.

Art. No.: 1360001



RAVENOL Kaltreiniger lösemittelfrei

Cleaner for all kind of engines, mechanical parts. It quickly penetrates grease, dirt, oil and grime and swiftly removes contaminants. Does not contain solvents.

Art. No.: 1360002



RAVENOL Teerentferner

Cleaner of tar, fats, light oxidation and stains from car lacquer.

Art. No.: 1360004



RAVENOL Autoshampoo

Universal concentrated liquid detergent excellent for thoroughly cleaning cars.

Art. No.: 1360005



RAVENOL Pressure Washing Concentrate

Ready-To-Clean concentrate for use in pressure washers, according to manufacturer's recommendations. Also for cleaning vehicles and surfaces in the commercial sector.

Kärcher, Lavor, Nilfisk Alto, Portotecnica, Kränzle, Delvir, Comet

Art. No.: 1360007



RAVENOL destilliertes Wasser

Special water for antifreeze dilution and use in accumulators.

Art. No.: 1360010



RAVENOL Summer Screen Wash 1:10

Mixture for windscreen and head light wash facilities for vehicles with apple fragrance. It cleans screens thoroughly, removing silicon and greasy residues and other types of dirt.

Art. No.: 1360085



RAVENOL Hand Clean & Care

Cleans heavy soiling caused by oils, lubricants, greases, paints, printing inks or dust, etc. The high content of coconut oil components ensures optimal moisturizing and care of the skin.

Art. No.: 1360610



Dispenser for RAVENOL Hand Clean & Care 3L

Dispenser system, specially developed for our RAVENOL Hand Clean & Care (Art. No. 1360610) in the 3L can. It is screwed onto the opened can and can be used directly. Can be used directly. Can be used several times!

Properties:
Plastic lid with plastic pump system
Dimensions (in mm): W 128 x H 296 x D 196

Art. No.: 1370140



RAVENOL Nitro-Universal-Verdünnung

Application to dilute nitro, nitro-combination, chlorinated rubber, air-drying and oven-drying synthetic enamel, as well as air-and oven-drying cellulose lacquer.

Art. No.: 1360127



RAVENOL Autopolitur

Provides a high-gloss Teflon finish for car, boat and caravan. Suitable for all types of automotive coatings as well as for the chrome, wheels and wheel cleaning. Removes tar, insects, and oxidation and brings the shine back to old paint.

Art. No.: 1360750



RAVENOL Summer Screen Wash 1:100

Mixture for windscreen and head light wash facilities for vehicles with apple fragrance. It cleans screens thoroughly, removing silicon and greasy residues and other types of dirt.

Art. No.: 1360082



DISCOVER THE NEW CLEANER SERIES



RAVENOL Lotus Glas Cleaner

Powerful cleaner for glass and mirror surfaces that removes fingerprints, grease residues and dirt while leaving a shiny, water-repellent lotus effect.

Art. No.: 1360026



RAVENOL Premium waterless Wash&Wax

Removes all types of road dirt or insect residue without adding water and leaves a shiny protective layer with a repellent effect. Developed for manual, small-area cleaning (ideal for traveling).

Art. No.: 1360070



RAVENOL Motobike Cleaner

Easily removes stubborn dirt from motorcycles (dust, oil, grease, etc.) and is particularly suitable for the extensive material mix of motorcycles (fairings, windows, plastics, metal surfaces, etc.).

Art. No.: 1360071



RAVENOL Insect Remover

Specialized cleaner that effortlessly removes insect residues and other soiling from windows, fairings and other materials.

Art. No.: 1360072



RAVENOL Rim Cleaner Magic

Powerful, acid-free, pH-neutral cleaner for aluminum and steel rims with a color indicator that effortlessly removes intensive soiling such as brake dust and oil.

Art. No.: 1360073



RAVENOL Marine Cleaner Eco

Specially developed for cleaning and degreasing ship components, SUP and other marine applications. Removes dirt, oil, grease, soot, nicotine, algae, bird droppings, resin, etc. while protecting surfaces and sealants.

Art. No.: 1360074



RAVENOL Interior Cleaner

Special cleaner for various surfaces in the vehicle interior that removes grease stains, traces of nicotine and other soiling while eliminating unpleasant odors.

Art. No.: 1360069



Our Car
Cleaning Portfolio:
application videos, notes,
details



Sprays

Discover the high-performance sprays from RAVENOL: perfectly coordinated solutions for cleaning, care and protection - reliable and efficient to use.



RAVENOL Silikon-Spray

A universal lubricant and slide release agent spray for use on all types of components. Specially developed for the lubrication, care and maintenance of all types of rubber, plastic and metal surfaces and components. The water-resistant and weatherproofing properties make it especially suitable in a marine environment.

Art. No.: 1360033



RAVENOL Motorstarter-Spray

A mixture of combustible solvents and compressed gases formulated to make it suitable for use in all petrol and diesel engines in passenger cars, trucks, construction equipment, all types of marine and boat engines, as well as agricultural equipment.

Art. No.: 1360034



RAVENOL Fogging Oil

Anti-corrosion spray formulated to effectively protect the motor, cylinder walls, piston rings and other internal surfaces of engines. Suitable for both inboard and outboard marine engines, generators, lawnmowers, snowmobiles and other engines subject to infrequent use.

Art. No.: 1360035



RAVENOL Rostlöser MoS2 Spray

Contains finely dispersed Molybdenum Disulfide solid lubricant for outstanding water displacement, corrosion inhibition and lubricating properties. Relaxes and loosens seized screw connections, displaces water and moisture from ignition contacts and electrical systems. The penetrating nature effectively prevents squeaks and creaks in all types of moving parts.

Art. No.: 1360009



RAVENOL Bremsenreiniger (Liquid and Spray)

A highly effective solvent-blended brake cleaner aerosol for the degreasing and cleaning of brakes, brake linings and clutch parts. Also suitable for the cleaning of electric motors, generators, hydraulic parts and many other metal components. Used by many Motorsport Teams - said to leave no white film after use.

Art. No.: 1360030



RAVENOL Ketten-Spray

A spray lubricant and corrosion protection for all types of high-speed chains. Formulated to effectively penetrate all gaps and dry quickly to provide a stable, odorless lubricating film with high levels of adhesion and water resistance.

Art. No.: 1360032



RAVENOL Active Foam Cleaner

Universal cleaning foam to quickly clean all of your vehicle's surfaces e.g. the bodywork or racing chassis and glass surfaces.

Art. No.: 1360036



RAVENOL RV-46 Multi Spray

Extremely versatile multi purpose spray: penetrates threads and mechanical connections, creeps under dirt, dissolves rust and protects against further corrosion. Lubricates moving parts such as hinges and joints, eliminates squeaking noises and displaces moisture from electrical contacts.

Art. No.: 1360306

Coolant + antifreeze

RAVENOL coolants protect your car against the negative impact of low temperatures.

An anti-freeze is a substance (e.g. glycerin, glycol, ethanol) which lowers the freezing point of another substance (e.g. Water), thereby preventing this substance from freezing. It is known to be used as an additive for the cooling systems or in windscreen washer systems of motor vehicles.



RAVENOL TTC Concentrate Protect C11

PROTECT C11

Coolant of yellow-green colour. It provides effective frost and corrosion protection. Application according mixture table.

VW TL 774-C (acc. to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFLU 11; FORD WSS-M97B51-A1; IVECO 18-1830; Suzuki.

Art. No.: 1410100



RAVENOL TTC Premix -40°C Protect C11

PROTECT C11

Coolant of yellow-green colour with frost and corrosion protection premixed to -40°C.

VW TL 774-C (acc. to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFLU 11; FORD WSS-M97B51-A1; IVECO 18-1830; Suzuki.

Art. No.: 1410105



RAVENOL TTC Hot Climate -15°C Protect C11

PROTECT C11

Coolant of yellow-green colour with frost and corrosion protection premixed to -15°C.

VW TL 774-C (acc. to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFLU 11; FORD WSS-M97B51-A1; IVECO 18-1830; Suzuki.

Art. No.: 1410106



RAVENOL TTC COLD CLIMATE -60°C Protect C11

PROTECT C11

Coolant of yellow-green colour with frost and corrosion protection premixed to -60°C.

VW TL 774-C (acc. to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFLU 11; FORD WSS-M97B51-A1; IVECO 18-1830; Suzuki.

Art. No.: 1410140



RAVENOL OTC Concentrate Protect C12+

PROTECT C12+

Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table.

DTFR 29C110 (MB 325.3), MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Jaguar Land Rover STJLR 651.5003, Jaguar JLM209722, Land Rover STC50529, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table, DAF 74002. Included in the list of recommendations of the LAWA for water management requirements for geothermal probes and geothermal collectors. Please follow manufacturer's recommendations.

Art. No.: 1410110



RAVENOL OTC Premix -40°C Protect C12+

PROTECT C12+

Coolant of lilac colour with frost and corrosion protection premixed to -40°C.

DTFR 29C110 (MB 325.3), DTFR 29D110 (MB 326.3), MAN 324 SNF, DEUTZ DQC CB-14, MB 326.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Jaguar Land Rover STJLR 651.5003, Jaguar JLM209722, Land Rover STC50529, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.

Art. No.: 1410112



RAVENOL OTC Hot Climate -15°C Protect C12+ PROTECT C12+

Coolant of lilac colour with frost and corrosion protection premixed to -15°C.

DTFR 29C110 (MB 325.3), MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.

Art. No.: 1410113



RAVENOL OTC COLD CLIMATE -60°C Protect C12+ PROTECT C12+

Coolant of lilac colour with frost and corrosion protection premixed to -60°C.

DTFR 29C110 (MB 325.3), MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.

Art. No.: 1410141



RAVENOL HTC Concentrate Protect MB325.0 PROTECT MB325.0

All year-round coolant of blue colour. It provides highly effective frost and corrosion protection for Mercedes, BMW, Opel, Saab and General Motors engines. Application according mixture table.

DTFR 29C100 (MB 325.0), DTFR 29D100 (MB 326.0), MB 325.0, VW TL 774-C, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011. Included in the list of recommendations of the LaWa for water management requirements for geothermal probes and geothermal collectors. Please follow manufacturer's recommendations.

Art. No.: 1410120



RAVENOL HTC Premix -40°C Protect MB325.0 PROTECT MB325.0

All year-round coolant of blue colour with frost and corrosion protection premixed to -40°C.

DTFR 29C100 (MB 325.0), DTFR 29D100 (MB 326.0), MB 326.0, VW TL 774-C, MB 325.0, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011

Art. No.: 1410121



RAVENOL HTC Hot Climate -15°C Protect MB325.0 PROTECT MB325.0

All year-round coolant of blue colour with frost and corrosion protection premixed to -15°C.

DTFR 29C100 (MB 325.0), DTFR 29D100 (MB 326.0), MB 325.0, VW TL 774-C, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011

Art. No.: 1410119



RAVENOL HTC COLD CLIMATE -60°C Protect MB325.0 PROTECT MB325.0

All year-round coolant of blue colour with frost and corrosion protection premixed to -60°C.

DTFR 29C100 (MB 325.0), DTFR 29D100 (MB 326.0), MB 325.0, VW TL 774-C, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011

Art. No.: 1410142



RAVENOL HJC Concentrate Protect FL22 PROTECT FL22

Coolant of green colour. It provides highly effective frost and corrosion protection. Application according mixture table.

Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.

Art. No.: 1410122



RAVENOL HJC Premix -40°C Protect FL22 PROTECT FL22

Coolant of green colour with frost and corrosion protection premixed to -40°C.

Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.

Art. No.: 1410123



RAVENOL HJC Hot Climate -15°C Protect FL22

PROTECT FL22

Coolant of green colour with frost and corrosion protection premixed to -15°C.

Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.

Art. No.: 1410124



RAVENOL HJC COLD CLIMATE -60°C Protect FL22

PROTECT FL22

Coolant of green colour with frost and corrosion protection premixed to -60°C.

Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.

Art. No.: 1410143



RAVENOL LTC Concentrate Protect C12++

PROTECT C12++/C13

Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table. Free of borate, nitrite, amine, phosphate.

Chrysler MS-90032, DTFR 29C120 (MB 325.5), MAN 324 Si-OAT, MB 325.5, MB 325.6, Mopar 68163848AA, Mopar 68163849AA, Scania TB 1451, VW G 012 A8G M1, VW G 012 A8G M8, VW G 012 A8G M9, VW G 013 A8J M1, VW G 013 A8J M8, VW G 013 A8J M9, VW TL 774-G (entspricht G12++ Qualität), VW TL 774-J (entspricht G13 Qualität)

Art. No.: 1410125



RAVENOL LTC Premix -40°C Protect C12++

PROTECT C12++/C13

Coolant of lilac colour. It provides highly effective frost and corrosion protection premixed to -40°C. Free of borate, nitrite, amine, phosphate.

Chrysler MS-90032, DTFR 29C120 (MB 325.5), DTFR 29D120 (MB 326.5),MB 326.6 (Premix), MAN 324 Si-OAT, MB 325.5, Mopar 68163848AA, Mopar 68163849AA, Scania TB 1451, VW G 012 A8G M1, VW G 012 A8G M8, VW G 012 A8G M9, VW G 013 A8J M1, VW G 013 A8J M8, VW G 013 A8J M9, VW TL 774-G (entspricht G12++ Qualität), VW TL 774-J (entspricht G13 Qualität)

Art. No.: 1410126



RAVENOL LTC Hot Climate -15°C Protect C12++

PROTECT C12++/C13

Coolant of lilac colour. It provides highly effective frost and corrosion protection premixed to -15°C. Free of borate, nitrite, amine, phosphate.

Chrysler MS-90032, DTFR 29C120 (MB 325.5), DTFR 29D120 (MB 326.5), MB 326.6 (Premix), MAN 324 Si-OAT, MB 325.5, Mopar 68163848AA, Mopar 68163849AA, Scania TB 1451, VW G 012 A8G M1, VW G 012 A8G M8, VW G 012 A8G M9, VW G 013 A8J M1, VW G 013 A8J M8, VW G 013 A8J M9, VW TL 774-G (entspricht G12++ Qualität), VW TL 774-J (entspricht G13 Qualität)

Art. No.: 1410127



RAVENOL ETC Concentrate Protect C12evo

PROTECT C12++/C13

Eco-friendly coolant free from 2-ethylhexanoic acid. It is a borate, nitrite and phosphate-free coolant for cooling circuits in combustion engines based on 1,2- ethanediol (monoethylene glycol), which provides maintenance-free corrosion and frost protection.

ASTM D3306, ASTM D4985, ASTM D6210, BMW LC-87, BS 6580:2010 (GB), Cummins CES 14603, CUNA NC 956-16 (Italien), Deutz DQC CC-14, DTFR 29C100 (MB 325.0), DTFR 29C120 (MB 325.5), Fiat 9.55523, Ford ESD-M97B49-A, IVECO 18-1830, JIS K 2234 (Japan), Liebherr LH-01-COL3A, MAN 324 NF, MAN 324 Si-OAT, MB 325.0 (Konzentrat), MB 325.5, MTU MTL 5048, O Norm V 5123 (Österreich), SAE J1034, VOLVO TR 1286083, VOLVO TR-31854114-002, VW TL 774-L (acc. G12evo), Cummins CES 14603

Art. No.: 1410165



RAVENOL ETC Premix -40°C Protect C12evo

PROTECT C12++/C13

Ready-to-use, eco-friendly coolant free of 2-ethylhexanoic acid, premixed with water. It is a borate, nitrite and phosphate-free coolant for cooling circuits in combustion engines, based on 1.2- Ethanediol (monoethylene glycol), which provides maintenance-free corrosion and frost protection.

ASTM D3306, ASTM D4985, ASTM D6210, BMW LC-87, BS 6580:2010 (GB), Cummins CES 14603, CUNA NC 956-16 (Italien), Deutz DQC CC-14, DTFR 29D100 (MB 326.0), Fiat 9.55523, Ford ESD-M97B49-A, IVECO 18-1830, JIS K 2234 (Japan), Liebherr LH-01-COL3A, MAN 324 NF, MAN 324 Si-OAT, MB 326.0 (Premix), MB 326.6 (Premix), MTU MTL 5048, O Norm V 5123 (Österreich), SAE J1034, VOLVO TR 1286083, VOLVO TR-31854114-002, VW TL 774-L (acc. G12evo), Cummins CES 14603

Art. No.: 1410166



RAVENOL ETC Hot Climate -15°C Protect C12evo

PROTECT C12++/C13

Ready-to-use, eco-friendly coolant free of 2-ethylhexanoic acid, premixed with water. It is a borate, nitrite and phosphate-free coolant for cooling circuits in combustion engines, based on 1.2- Ethanediol (monoethylene glycol), which provides maintenance-free corrosion and frost protection.

ASTM D3306, ASTM D4985, ASTM D6210, BMW LC-87, BS 6580:2010 (GB), Cummins CES 14603, CUNA NC 956-16 (Italien), Deutz DQC CC-14, DTFR 29D100 (MB 326.0), Fiat 9.55523, Ford ESD-M97B49-A, IVECO 18-1830, JIS K 2234 (Japan), Liebherr LH-01-COL3A, MAN 324 NF, MAN 324 Si-OAT, MB 326.0 (Premix), MB 326.6 (Premix), MTU MTL 5048, O Norm V 5123 (Österreich), SAE J1034, VOLVO TR 1286083, VOLVO TR-31854114-002, VW TL 774-L (acc. G12evo), Cummins CES 14603

Art. No.: 1410167



**You can
find more
information
about ETC under
the QR code.**

Passenger car

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
Alfa Romeo	all models	1976	2005	TTC	Protect C11
	all models	2005		OTC	Protect C12+
Audi	all models	1981	1996	TTC	Protect C11
	all models	1996	2008	OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
	all models	2008		LTC	Protect C13/C12++
Bentley	all models	1980	2005	TTC	Protect C11
	all models	2005	2008	OTC	Protect C12+
	all models	2008		LTC	Protect C13/C12++
BMW	all models	1975		TTC	Protect C11
	all models	2007		HTC	Protect MB325.0
Chevrolet	all models	2001		OTC	Protect C12+
Chrysler	all models	1985	2007	TTC	Protect C11
	all models	2008		OTC	Protect C12+
Citroën	all models	1993		OTC	Protect C12+
Dacia	all models	2005		OTC	Protect C12+
Daihatsu	all models	1979	1998	HJC	Protect FL22
	all models	1999		OTC	Protect C12+
Dodge	all models	1985	2007	TTC	Protect C11
	all models	2008		OTC	Protect C12+
Ferrari	all models	1979	2005	TTC	Protect C11
	all models	2005		OTC	Protect C12+
Fiat	all models	1982	2005	TTC	Protect C11
	all models	2005		OTC	Protect C12+
Ford	all models		1997	TTC	Protect C11
	all models	1998	2006	OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Honda	all models	1983	1998	HJC	Protect FL22
	all models	1999	2006	OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Hyundai	all models	1983	1998	HJC	Protect FL22
	all models	1999		OTC	Protect C12+
Jaguar	all models	1986	1999	TTC	Protect C11
	all models	1999		OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Jeep	all models	1976	1998	TTC	Protect C11
	all models	1999		OTC	Protect C12+

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
KIA	all models	1991	1998	HJC	Protect FL22
	all models	1999		OTC	Protect C12+
Lada	all models			TTC	Protect C11
Lancia	all models	1976	2005	TTC	Protect C11
	all models	2005		OTC	Protect C12+
Land Rover	Freelander, Discovery, Defender, Range Rover	1998		OTC	Protect C12+
	Range Rover V8 and Diesel	1998	2005	TTC	Protect C11
	all models	2007		HTC	Protect MB325.0
Lexus	all models	1994		OTC	Protect C12+
Lotus	all models	1980	1999	TTC	Protect C11
	all models	2000		OTC	Protect C12+
Mazda	all models	1977		HJC	Protect FL22
Mahindra	all models			HJC	Protect FL22
Mercedes	all models	1976		TTC	Protect C11
	all models	2007		HTC	Protect MB325.0
MG Rover	all models	1982	1997	TTC	Protect C11
	all models	1998		OTC	Protect C12+
MINI	with petrol engine	2001		TTC	Protect C11
	Diesel	2007		OTC	Protect C12+
Mitsubishi	all models	1982		OTC	Protect C12+
	Carisma	1996	2004	HJC	Protect FL22
	Colt	2004	2007	HJC	Protect FL22
Morgan	all models			TTC	Protect C11
Nissan	all models	1982	1997	HJC	Protect FL22
	all models	1998		OTC	Protect C12+
Opel	all models	1975	2000	TTC	Protect C11
	all models	2001		OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Peugeot	all models	1993	1997	TTC	Protect C11
	all models	2008		OTC	Protect C12+
Porsche	all models (except 911)		1995	TTC	Protect C11
	all models	1996		OTC	Protect C12+
	911, Boxster, Cayman, Cayenne, Panamera	1997		LTC	Protect C13/C12++
	all models	2007		HTC	Protect MB325.0
Renault	all models	1985	1997	TTC	Protect C11
	all models	1998	2006	OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Rolls-Royce	all models	1998		TTC	Protect C11
Rover	all models	2007		HTC	Protect MB325.0

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
Saab	all models	1975	2000	TTC	Protect C11
	all models	2001		OTC	Protect C12+
	all models	2007		HTC	Protect MB325.0
Saturn	all models			HTC	Protect MB325.0
Seat	all models	1985	1996	TTC	Protect C11
	all models	1997	2007	OTC	Protect C12+
	all models	2008		LTC	Protect C13/C12++
Skoda	all models	1989	1998	TTC	Protect C11
	all models	1998	2008	OTC	Protect C12+
	all models	2008		LTC	Protect C13/C12++
Smart	all models	1998		TTC	Protect C11
Subaru	all models	1977	1999	HJC	Protect FL22
	all models	2000		OTC	Protect C12+
Suzuki	all models	1981	1999	HJC	Protect FL22
	all models	2000		OTC	Protect C12+
Toyota	all models	1978	1999	HJC	Protect FL22
	all models	2000		OTC	Protect C12+
Volkswagen	all models	1975	1996	TTC	Protect C11
	all models	1997	2008	OTC	Protect C12+
	all models	2008		LTC	Protect C13/C12++
Volvo	all models	1982		TTC	Protect C11

HGV

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
Avia Trucks	all models			TTC	Protect C11
Cummins	all models			LTC	Protect C12++
Daewoo	all models			OTC	Protect C12+
DAF	all models			OTC	Protect C12+
Freightliner	all models			TTC	Protect C11
GMC	all models			TTC	Protect C11
Iveco	all models			TTC	Protect C11
Kenworth	all models			TTC	Protect C11
LIAZ	all models			TTC	Protect C11
Mack	all models			TTC	Protect C11
MAN	all models			TTC	Protect C11
	all models			LTC	Protect C12++
Mercedes-Benz	all models		Sep 11	TTC	Protect C11
	all models	Oct 11		LTC	Protect C12++

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
Mitsubishi Fuso	all models			OTC	Protect C12+
Nissan	all models			OTC	Protect C12+
Pegaso	all models			TTC	Protect C11
Peterbilt	all models			TTC	Protect C11
Renault	all models			OTC	Protect C12+
Sisu	all models			TTC	Protect C11
Tatra	all models			TTC	Protect C11
Ural	all models			TTC	Protect C11
Volvo	all models		2005	TTC	Protect C11
	all models	2006		OTC	Protect C12+

Engines

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
Cummins	all models			LTC	Protect C12++
DAF	all models			OTC	Protect C12+
Deutz	all models			TTC	Protect C11
MAN	all models			TTC	Protect C11
	all models			LTC	Protect C12++
Mercedes-Benz	all models			TTC	Protect C11
	all models			LTC	Protect C12++
MTU	all models			TTC	Protect C11
Perkins	all models			TTC	Protect C11

Construction machinery & Tractors

Brand	Model	Construction year		Coolant + antifreeze recommendation	
		From	To		
ATLAS	all models			TTC	Protect C11
CNH	all models			TTC	Protect C11
Demag	all models			TTC	Protect C11
Fendt	all models			TTC	Protect C11
GINAF	all models			OTC	Protect C12+
Gottwald	all models			TTC	Protect C11
Grove	all models			TTC	Protect C11
Hiab	all models			TTC	Protect C11
John Deere	all models			TTC	Protect C11
Jonsered	all models			TTC	Protect C11
Liebherr	all models			TTC	Protect C11

Winter chemicals

With RAVENOL winter care products, winter is welcome – no problem for your car. Our windscreen washer products are available both as concentrate and in a ready-to-use format for cars.



RAVENOL Scheibenfrostschutz Konzentrat

Screen washer antifreeze concentrate. Appropriate for Polycarbonate windcreens, compatible with varnish, appropriate for the use in fan jets.

Art. No.: 1420100



RAVENOL Scheibenfrostschutz -20°C

Ready to use winter screenwash antifreeze with freeze protection to -20°C with a special pleasant CITRUS perfume, based on alcohols.

Art. No.: 1420103



RAVENOL Antifrost-Enteiser

Antifrost de-icer.

Art. No.: 1420217



RAVENOL Frostschutz für Druckluftbremsen

Air brake system antifreeze.

Art. No.: 1430208



RAVENOL Fließverbesserer

Diesel fuel and fuel oil additive to prevent waxing and plugging at low temperatures. Use according to mixture table.

Art. No.: 1430220



RAVENOL Türschloss-Enteiser

Lock de-icer.

Art. No.: 1430203

Manufacturer specifications

Engine oils

BMW	
Longlife-01 (LL-01)	Engine oil for all older gasoline engines, minimum requirement from MY 2002.
Longlife-04 (LL-04)	Engine oil for all Diesel engines in certain areas with or without particulate filter.
Longlife-01 FE (LL-01 FE)	Engine oil for certain newer gasoline engines from MY 2001.
Longlife-12 FE (LL-12 FE)	Engine oil for certain Diesel engines from MY 2013.
Longlife-14 FE (LL-14 FE)	Engine oil for certain gasoline engines from MY 2014 for most european countries, USA, Canada
Longlife-17 FE (LL-17 FE)	Engine oil for certain gasoline engines from MY 2014, worldwide, except BMW M GmbH
Longlife-19 FE (LL-19 FE)	Engine oil for certain diesel and petrol engines, as well as BMW M GmbH
Longlife-22 FE++ (LL-22 FE++)	Engine oil for specially approved gasoline engines, except BMW M GmbH, low HTHS of 2.0 mPas
Mercedes-Benz	
MB 226.9	Multigrade engine oil for gas engines (CNG) based on BR 300/400.
MB 228.0 / 1	Motoroil for Diesel engines. Increased requirement according to ACEA E2, SHPD motoroil with normal performance. 228.0: single grade oil / 228.1: multigrade oil.
MB 228.2 / 3	SHPD Motoroil for high-loaded Dieselenignes with increased requirement according to ACEA E7, extended oil change intervalls up to 45000 km. 228.2: single grade oil / 228.3: multigrade oil
MB 228.31	Multigrade engine oil for Dieselenignes in commercial vehicles and busses, with or without particulate filter.
MB 228.5	UHPD-engineoil (Ultra High Performance Diesel) for high loaded Dieselenignes, extended oil change in-tervalls up to 45000 km in lightweight class. In the heavy class are up to 160,000 km are possible (service interval display).
MB 228.51	UHPD engine oils acc. MB 228.5 with specific requirements for diesel particular filters for EURO IV, LOW SPAsh technology.
MB 229.1H	Multigrade motor oils for passenger cars (petrol and diesel engines). Increased requirements acc. ACEA A3-04 and B3-04 release (Historical).
MB 229.3	Multigrade motor oils for passenger cars, highest performance for diesel engines.
MB 229.31	Multigrade motor oils for passenger cars with diesel particular filter. LOW SPAsh technology.
MB 229.5	Multigrade motor oils for passenger cars with extended oil change intervals (20,000 km), reduced exhaust emissions.
MB 229.51	Multigrade motor oils for diesel engines with extended oil change intervals and service interval display. LOW SPAsh technology. Increased requirements acc. to ACEA A3-04, B4-04, C3-04.
MB 229.52	Low SPAsh Multigrade Service Engine Oils for "BlueTEC"-Dieselenignes.
DTFR 15B110 (MB 228.3)	SHPD Motoroil for high-loaded Dieselenignes with increased requirement according to ACEA E7, extended oil change intervalls up to 45000 km. 228.2: single grade oil / 228.3: multigrade oil
DTFR 15B120 (MB 228.5)	UHPD-engineoil (Ultra High Performance Diesel) for high loaded Dieselenignes, extended oil change intervalls up to 45000 km in lightweight class. In the heavy class are up to 160,000 km are possible (service interval display).
DTFR 15C100 (MB 228.31)	Multigrade engine oil for Dieselenignes in commercial vehicles and busses, with or without particulate filter.
DTFR 15C110 (MB 228.51)	UHPD engine oils acc. MB 228.5 with specific requirements for diesel particular filters for EURO IV, LOW SPAsh technology.
DTFR 15C120 (MB 228.52)	Multigrade Engine Oil Low SPAsh.
DTFR 15C130 (MB 228.61)	Mercedes-Benz HD engine oil specification, based on the API: FA-4 specification with very low HTHS viscosity for high fuel economy. Recommended for use in some Mercedes-Benz Euro 6 heavy duty engines.
Volkswagen/Audi	
VW 502 00	For car gasoline engines with extended oil change intervals, replaces VW 501 01 and 500 00.
VW 503 00	For car gasoline engines with extended oil change intervals, exceeds the requirements of VW 502 00 (HTHS 2,9 mPa*s).

Volkswagen/Audi	
VW 503 01	Oils for turbocharged car gasoline engines with extended service intervals (HTHS > 3.5 mPa*s).
VW 504 00	VW-Norm for engines of Longlife-Service. Gasoline engines replaces VW Norm 503 00 and 503 01.
VW 505 00	All-season engine oils for diesel engines with or without turbocharging.
VW 505 01	All-season oils of SAE5W40 especially for Unit Pump diesel engines from model year 2000.
VW 506 00	Multigrade oils for diesel engines with extended service intervals (HTHS > 2.9 mPa*s).
VW 506 01	Oils for Unit Pump diesel engines with extended service intervals. Surpasses the requirements of VW 505 01 (WIV).
VW 507 00	VW-Norm for engines of Longlife-Service. Gasoline and diesel engines with DPF (Diesel Particular Filter)
VW 508 00	VW standard for newly developed low-consumption gasoline engines with Longlife service intervalls. The engine oils are only available with the viscosity 0W-20, which are not backward compatible with older specifications / engines.
VW 509 00	VW standard for newly developed low-consumption Diesel engines with Longlife service intervalls. The engine oils are only available with the viscosity 0W-20, which are not backward compatible with older specifications / engines.
VW 511 00	VW standard for special petrol engines according to the owner´s manual.
Porsche	
A40	Porsche Specification (acc. to Porsche Vehicle from Model 1994) for racing cars, Panamera S / Tur-bo, Cayenne S / Turbo / GTS SAE 0W-40, SAE 5W-40, SAE 5W-50, Cayenne (V6) SAE 0/5W-40 - not for longdrain-, not allowed for Cayenne Diesel.
C20	Porsche Specification acc. to VW 508 00 / 509 00 only for SAE 0W-20 oils.
C30	Porsche Specification (acc. to VW 504 00 / 507 00) only Cayenne (V6) SAE 5W-30 - not for China-, Cay-enne Diesel SAE 5W-30
C40	Porsche Specification (acc. to VW 511 00) only petrol engines according to the owner´s manual.
MAN	
MAN 270	Diesel engine oil, monograde.
MAN 271	Multigrade diesel engine oil.
MAN M 3275	"SHPD engine oil (Super high performance diesel), extended oilrain up to 45.000 km. M 3275-1: Multigrades engine oil / M 3275-2: Monogrades engine oil."
MAN M 3277	Ultra high performance diesel engine oil. UHPD, extended oilrain up to 80.000 km.
MAN M 3477	Mega high performance diesel engine oil. MHPD, low ash, exhaust aftertreatment.
MAN M 3677	Specification for super high performance engine oils which can be used for extended oil drain intervals for Euro VI engines with viscosity SAE 5W-30.
MAN M 3271-1	Gas engine oil (stationary engines).
MAN M 3575	Super high performance diesel engine oil.
Opel	
GM-LL A-025	Gasoline vehicles with long oilrain intervals.
GM-LL B-025	Diesel vehicles with long oilrain intervals.
dexos1™ Gen 3	Replaces the old dexos1™ specifications for gasoline engines with higher requirements in the 3rd generation.
dexos2™	GM-Specification for gasoline and diesel engines.

Gear oils for manual transmissions

Mercedes-Benz	
MB 235.0H / DTFR 12B100	Hypoid gear oil only for SAE 90, 85W-90 Oils acc. API GL - 5 (Historical)
MB 235.1 / DTFR 13B100	Oils of SAE 80W, 80W-85, 85W-90, meets API GL-4
MB 235.4 / DTFR 13B150	Fully synthetic oils of SAE 75W-85, meets API GL-4 (another sheet – MB 235.1)
MB 235.5	Oils as of sheet MB 235.1 but with extended oil change interval
MB 235.6 / DTFR 12B130	Oils as of sheet MB 235.0 but with extended oil change interval
MB 235.7	Rear axle gear oils of SAE 85W-90, meets API GL-5
MB 235.8 / DTFR 12B140	Fully synthetic oils of SAE 75W-90, meets API GL-5
MB 235.9	Special fully synthetic oils of SAE 75W-90 for gear-box AG 4. MB gear oils A 001 989 2503
MB 235.10	Special semi-synthetic oils of SAE 75W-80, meets API GL-4. MB gear oils A 001 989 2603
MB 235.11 / DTFR 13B110	Special fully synthetic oils of SAE 75W-90, meets API GL-4. MB gear oils A 001 989 2803
MB 235.12 / DTFR 13B120	Motor oils SAE 30, SAE 40 used as gear oils in tropical climate
MB 235.13	Fully synthetic gear oils for LKW-gear boxes SAE 50
MB 235.15	Hypoid oils SAE 75W-85 for reduction gear of rear axle Typ 164
MB 235.20	Commercial vehicle hypoid gear oil mineral oil (Specification 235.20)
MB 235.27	Commercial vehicle retarderoils, category Voith A
MB 235.28	Commercial vehicle retarderoils, category Voith B (Specification 235.28)
MB 235.29	Commercial vehicle retarderoils, category Voith C (Specification 235.29)
MB 235.61	Fully synthetic gear oil SAE 75W-140 for AMG
Volkswagen	
VW 501 50	Special oils for gear-box
G 052	Oil types SAE 75W-90, Nr. G 052 911 A, G 052 180 A2, G 052 190 A2, G 052 175 A1
MAN	
MAN 341 Typ VR	High pressure gear oil. Vickers, Eaton-Fuller
MAN 341 Typ Z2, Z4, Z5	High pressure gear oil. ZF
MAN 341 Typ E1-4	High pressure gear oil. Eaton-Fuller
MAN 342 Typ M1-3	Extreme pressure gear oil
MAN 342 Typ S1	Extreme pressure gear oil
MAN 3343 Typ M	Multipurpose gear oil
MAN 3342 Typ S	Multipurpose gear oil

Automatic Transmission Fluids

Mercedes-Benz	
MB 236.1 / DTFR 13C100	Automatic Transmission Fluid corresponding DEXRON III (before DEXRON DII)
MB 236.2 / DTFR 13C120	Automatic Transmission Fluid corresponding Typ A Suffix A, except frontgear vehicles of A-Class
MB 236.3 / DTFR 38B100	Automatic Transmission Fluid corresponding DEXRON III (before DEXRON II)
MB 236.5	Automatic Transmission Fluid corresponding specification Allison C4
MB 236.6 / 236.7	Automatic Transmission Fluid corresponding DEXRON III (before DEXRON DII)
MB 236.8 / DTFR 13C150	Automatic Transmission Fluid corresponding DEXRON II-E, Allison C4, ZF TE-ML 14
MB 236.81	Automatic Transmission Fluid corresponding ZF TE-ML 09, 14
MB 236.9 / DTFR 13C170	Automatic Transmission Fluid corresponding DEXRON F III)
MB 236.10	Special oil of MB 001 989 21 03 for automatic transmission with GKÜB
MB 236.11 / DTFR 13C110	Special oil of MB 001 989 22 03 for automatic transmission ZF 4 HP 20 and VW AG4
MB 236.12	Special oil for 7-stepped gearing
MB 236.13	Service Automatic Transmission Fluid
MB 236.14	ATF Transmission Oils for 5-speed automatic transmission with controlled torque converter clutch (GKÜB) and 7-speed automatic transmission
MB 236.15	ATF Transmission Oils for 7-speed automatic transmission
MB 236.17	ATF Transmission Oils for 9-speed automatic transmission
MB 236.20	Transmission Fluid for CVT
MB 236.41	Gear Oil for ML Class-Hybrid (type: 164.195 transmission: 722.550)

Mercedes-Benz	
MB 236.91	Automatic Transmission Fluid corresponding Allison transmission
MAN	
MAN 339 Type V1-2	Typ V1-2 Automatic transmission fluid. Vickers
MAN 339 Type Z1-4	Typ Z1-4 Automatic transmission fluid. ZF
ZF	
TE-ML 01	Manual transmissions for trucks and buses with "TE-ML 01" entry on the type plate
TE-ML 02	Manual and automatic transmissions for trucks, buses an light commercial vehicles with "TE-ML 02" entry on the type plate
TE-ML 03	Converter transmissions for off-road equipment (off-road vehicles, special vehicles, lift truck)
TE-ML 04	Marine transmissions
TE-ML 05	Axles for off-road vehicles
TE-ML 06	Tractor transmissions and hydraulic lifts
TE-ML 07	Hydrostatic-mechanical and electric drive systems
TE-ML 08	Steering systems (non-power-assisted) for cars, commercial vehicles and off-road vehicles
TE-ML 09	Steering systems and oil pumps for cars, commercial vehicles and off-road vehicles
TE-ML 11	Manual transmissions, double-clutch transmissions and automatic transmissions for cars
TE-ML 12	Axles and wheel heads for buses and trucks
TE-ML 13	ZF assemblies in special purpose vehicles
TE-ML 14	Powershift transmissions, type Ecomat, for buses, trucks, and special vehicles
TE-ML 15	Brake systems for special vehicles
TE-ML 16	Transmissions for rail vehicles
TE-ML 17	Transmissions and axles for lift-trucks
TE-ML 18	Axles for cars
TE-ML 19	Transfer and offset transmissions for commercial vehicles
TE-ML 20	Powershift transmissions, type EcoLife, for buses
TE-ML 21	Tractor front axles, transmissions for harvesters and final drives
TE-ML 23	Stationary applications
TE-ML 24	Historical Manual Transmissions for Trucks and Passenger Cars

Greases

MAN	
MAN 283 Li-P 0	Multipurpose grease, mineral oil, NLGI-Class 0
MAN 283 Li-P 0-B	Multipurpose grease, biodegradable, NLGI-Class 0
MAN 283 Li-P 00 / 000	Multipurpose grease, mineral oil, NLGI-Class 00/000
MAN 283 Li-P 00 / 000-B	Multipurpose grease, biodegradable, NLGI-Class 00/000
MAN 283 Li-P 2	Multipurpose grease, mineral oil, NLGI-Class 2
MAN 283 Li-P 2-B	Multipurpose grease, biodegradable, NLGI-Class 2
MAN 284 Li-H 2	High temperature grease, NLGI-Class 2
MAN 285 Li-PF 2	Multipurpose grease
Mercedes-Benz	
MB 264.0	Liquid grease (NLGI grades 00/000, Specification 264.0)
MB 265.1	High temperature antifriction bearing grease (NLGI grade 2, Specification 265.1)
MB 266.0	Grease (NLGI grade 1, Specification 266.0)
MB 266.2	Long-life grease (NLGI grade 2, Specification 266.2)
MB 267.0	Multipurpose grease (NLGI Class 2, Specification 267.0)
MB 267.1	Wheel bearing grease (NLGI grade 2, Specification 267.1)
MB 268.0	Leaf spring grease (Specification 268.0)
MB 269.2	Complex grease (NLGI grade 2, Specification 269.2)

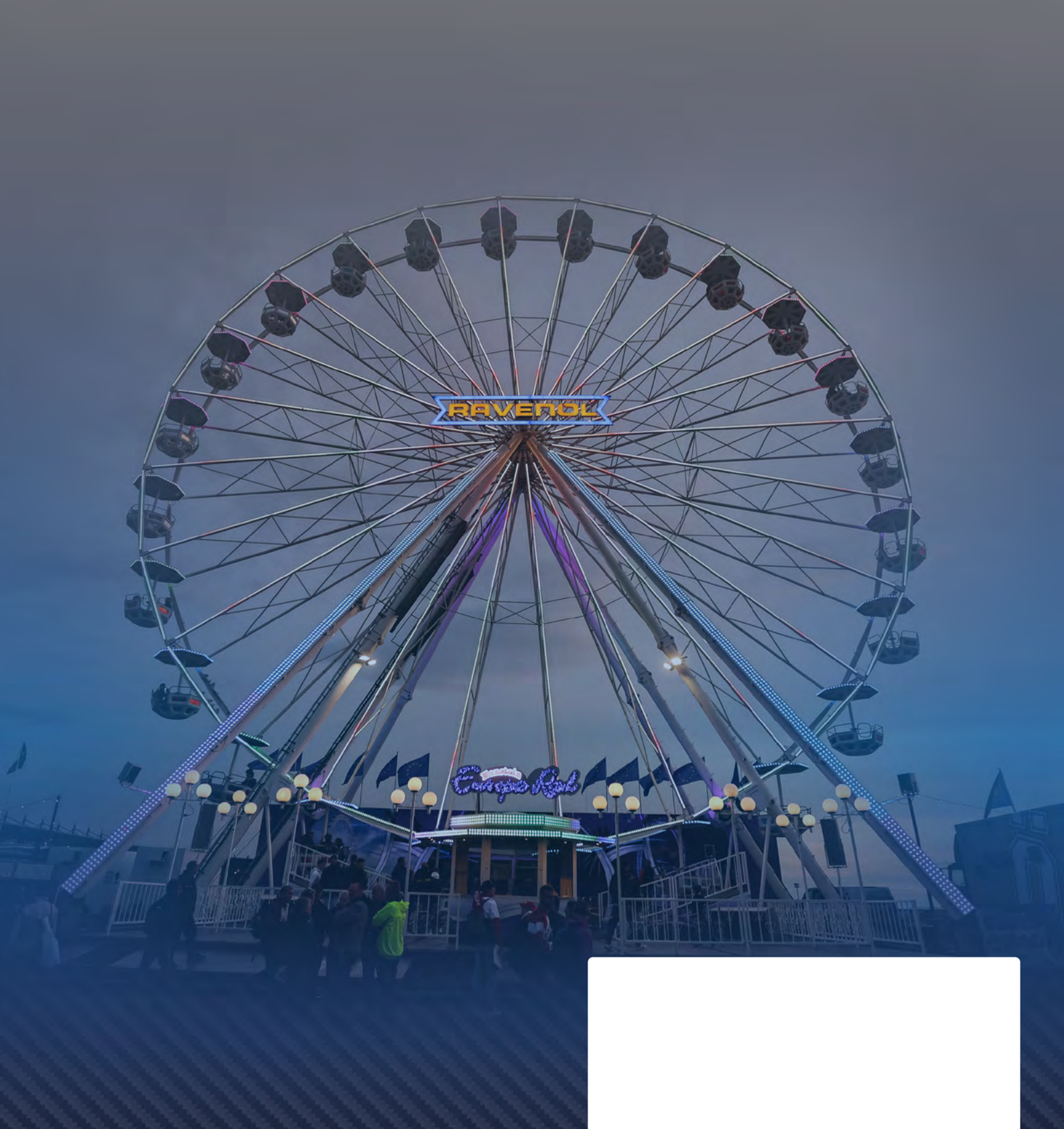
Coolant + anti-freeze

VW Group: Audi, Seat, Skoda, VW	TL 774-C = G11 (1989 ...1996)
	TL 774-F = G12 + (1996 -->)
	TL 774-G = G12 ++ (2009 -->)
	TL 774-J = G13 (2010 -->)
BMW	M 600 69.0
FORD	WSS-M97B44-D (lilac), WSS-M97B51-A1 (yellow)
JAGUAR	WSS-M97B44-D (lilac)
MERCEDES-BENZ	MB 326.0, 326.3, 326.5, 326.6 (pre-mixed) (1988 -->)
	MB 325.0, 325.2, 325.3, 325.5, 325.6 (non-thinned) (1988 -->)
	MB 326.0, 326.3, 326.5, 326.6 (pre-mixed) (1988 -->)
PORSCHE	Glysantin Dynamic Protect G40 (corresponds to VW TL 774) = G 13)
SAAB	SAAB Original Coolant (--> 2001)
	SAAB Longlife Coolant (2000 -->)
VOLVO	VOLVO Coolant
MAN	MAN 324 (N, N / Arctic, NF, Si-OAT, SNF)
JOHN DEERE	JDM H5 (1971-1984)
	JDM H24A2 (1984 -->) ASTM D4985

Brake fluids

MB 331.0	Brake fluid DOT 4 Plus
MB 331.1	Brake fluid DOT 4 Type 200





80 YEARS PERFORMANCE BY
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Deutsche
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D-PL-18751-01-00

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