

RAVENOL®

PRODUCT GUIDE





Ravensberger Schmierstoffvertrieb GmbH develops, produces and markets user-oriented lubricants that set trends — technologically, economically and ecologically.

Today, RAVENOL products are available worldwide in over 80 countries.

Our customers come from many industries such as the automotive, mechanical engineering, steel, construction, mining and agriculture industries.

RAVENOL products are reviewed and tested continuously in our state-of-the-art laboratory. As a result of a strict quality assurance system, we guarantee you that our products are of a consistently high quality. A continuous quality inspection process as part of internal operating procedures provides both you and us with additional assurance. The products are monitored by the quality management system, from receiving raw materials to delivery of the retail containers to the customer.

In order to live up to the standards of an increasingly global competition, Ravensberger Schmierstoffvertrieb GmbH is certified under DIN EN ISO DIN 9001. Since 2012 the stringent quality management requirements of the automotive industry are fulfilled with the certification under ISO/TS 16949. Our laboratory is also accredited according to DIN EN ISO/IEC 17025. The work spectrum ranges from developing innovative products together with our powerful partners, right through to constantly optimizing appropriate inspection methods. The laboratory's regular and successful participation in national and international interlaboratory tests relating to our analytical tasks is matter of course for us. Our high quality standard is verified

and confirmed by annual surveillance audits by external independent companies.

We have clearances for our products in the automotive industry from major engine manufacturers such as Daimler, Chrysler, VW, GM, OPEL, BMW, Porsche, MAN, Volvo, MTU, Deutz, ZF, Steyr Motors, Cummins and JASO. Meeting the highest specifications is a matter of course in our products. Our products are listed by the API and NMMA. We have FIA-CIK homologation for our 2-stroke racing oils.

The technical competence of Ravensberger Schmierstoffvertrieb GmbH is demonstrated by its global commitment to motorsport, where RAVENOL products stand their test under extreme loads. RAVENOL is active in international racing and is now represented as a partner of drivers, teams and race series in formula, sports and touring car racing, right through to long-distance racing. RAVENOL is also a reliable partner in motorcycle racing and in the maritime sector.

In addition, continuous modernisation is ensured in all areas of business based on consistent investment.

The Ravensberger Schmierstoffvertrieb GmbH products are supported by a strong team which guarantees proximity to customers and the market thanks to its professionalism and experience.

Observing trends in the markets as well as the individual needs of our customers takes top priority for us.

So that we can continue to be a reliable partner for you in the future and to ensure competitiveness in the long term, RAVENOL now also visually stands for innovative, modern and high-quality products made in Germany.



TOGETHER TO THE TOP

...WITH RAVENOL'S INNOVATIVE PACKAGING AND DESIGNS



Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Extra Fuel Economy EFE Art. 1111103	0W-16	SN		Fully synthetic low friction motor oil with 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
RAVENOL High Fuel Economy HFE Art. 1111104	5W-16	SN		Fully synthetic low friction motor oil with 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
RAVENOL Eco Synth ECS Art. 1111102	0W-20	SN(RC)/ SM(EC)	A5/B5	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.
				ILSAC GF-5, Resource Conserving, Energy Conserving
RAVENOL SSO Art. 1111100	0W-30	SN/CF	A3/B4	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.
				MB 229.5, 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
RAVENOL Arctic Low SAPS ALS Art. 1111137	0W-30		C3	Fully synthetic, fuel economy low friction motor oil with CleanSynto® Technology for petrol and diesel engines of high performance vehicles and vans with Diesel Particular Filter DPF and Three-Way Catalyst, which require HTHS >3,5 mPa*s
				MB 229.51, BMW Longlife-04
RAVENOL Super Synthetic Hydrocrack SSH Art. 1111138	0W-30	SM	A3/B4	Fully 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 RN0710
RAVENOL Super Synthetik Öl SSL Art. 1111108	0W-40	SN/CF	A3/B4	Fully 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 229.3, MB 229.5, VW 502 00 / 505 00, BMW Longlife-01, Porsche A40, Renault RN0700 / RN0710
RAVENOL Super Fuel Economy SFE Art. 1111110	5W-20	SN(RC)/ SM(EC)	A5/B5	Fully 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.
				ILSAC GF-5, FORD WSS-M2C930-A/B, FORD WSS-M2C948-B, MAZDA, DaimlerChrysler MS-6395, HONDA, Nissan, Mitsubishi DiaQueen

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL WIV Art. 1111101	0W-30		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
RAVENOL WIV III Art. 1111120	5W-30		A3/B4	Fully synthetic low friction motor oil with CleanSynto® technology, which combines the high standard for petrol and diesel engines. Extended service intervals (Longlife III).
				VW 504 00 / 507 00 (for Europe and Northamerica), Porsche C30 (Cayenne V6 except China and Cayenne Diesel)
RAVENOL FO Art. 1111115	5W-30	SN(RC)/ SM(EC)/ SL(EC)	A5/B5	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.
				ILSAC GF-5, Ford WSS-M2C913-A/B, Jaguar WSS-M2C913-B, MAZDA
RAVENOL FEL Art. 1111123	5W-30	SN/ SM(EC)/CF	A5/B5, C2	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TCW). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >2,9 mPa*s(cP).
				JASO DL-1 (D049RAV111), Ford WSS-M2C913D, Ford WSS-M2C934-A/C, ILSAC GF-4, PSA B71 2290
RAVENOL FDS Art. 1111139	5W-30	SL/CF	A1/B1, A5/ B5	Fully synthetic, low friction motor oil with CleanSynto® Technology for petrol and diesel passenger cars with and without turbocharging and direct injection.
				Renault RN0700, FORD WSS-M2C913-D
RAVENOL HDS Hydrocrack Diesel Specific Art. 1111121	5W-30	SM(EC)	C4	Fully synthetic low friction mid SAPS motor oil with CleanSynto® technology for passenger car diesel engines (including DPF and TCW). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >3,5 mPa*s(cP).
				Energy Conserving, Renault RN0720
RAVENOL HPS Art. 1111117	5W-30	SN(RC)/ SM(EC)/ SL/CF	A3/B4	Semi-synthetic low friction motor oil with CleanSynto® technology with polyalphaolefin for passenger car petrol and diesel engines with and without turbo-charging and direct injection.
				ILSAC GF-5, Resource Conserving, Energy Conserving, MB 229.3, BMW Longlife-98, VW 502 00 / 505 00, Porsche C30
RAVENOL HCL Art. 1111118	5W-30	SL/CF	A3/B4	Fully 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, VW 502 00 / 505 00 / 501 01
RAVENOL HLS Art. 1111119	5W-30	SM(EC)/ SL/CF	A3/B4, C3	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TCW). Extended oil change intervals.
				ILSAC GF-4, Energy Conserving, MB 229.51, MB 229.31, BMW Longlife-04, VW 502 00 / 505 00 / 505 01, GM dexos2, GMW 16177
RAVENOL DXG Art. 1111124	5W-30	SN(RC)/ SM(EC)		Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection.
				ILSAC GF-5, Resource Conserving, Energy Conserving, GM dexos1

ENGINE OILS FOR PASSENGER CARS CleanSynto®

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Longlife LSG Art. 1111116	5W-30	SM/CF	A3/B4-07, C3-08	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. First- and Service Fill for gasoline and diesel engines: Opel GM-LL-A-025 (B-040-2095), Opel GM-LL-B-025 (B-040-2098), GM dexos2
RAVENOL VMP Art. 1111122	5W-30	SM(EC)	A3/B4, C3	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TCW). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multioil. BMW Longlife-04, VW 504 00 / 507 00 (for Europa and North America), MB 229.51, MB 229.31, Porsche C30 (Cayenne V6 (except China) and Cayenne Diesel), 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
RAVENOL VSI Art. 1111130	5W-40	SM/SL/CF	A3/B4	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. MB 229.3, VW 502 00 / 505 00, BMW Longlife-98, Porsche A40 (except Cayenne V6), Opel GM-LL-B-025
RAVENOL VPD Art. 1111131	5W-40	SM/CF	A3/B4, C3	Fully synthetic low SAPS motor oil with CleanSynto® technology for diesel engines with pump-injection with and without turbo-charging and direct injection. VW 502 00 / 505 00 / 505 01, MB 229.51, Ford WSS M2C 917-A, BMW Longlife-04, Porsche
RAVENOL VDL Art. 1111132	5W-40	CF	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
RAVENOL VMO Art. 1111133	5W-40	SN/SM/CF	A3/B4, C3	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including pump-injection technology, DPF and TCW). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multioil. MB 229.31, VW 502 00 / 505 00 / 505 01, BMW Longlife-04, Porsche A40, Ford WSS-M2C 917-A, Fiat 9.55535-S2
RAVENOL VollSynth Turbo VST Art. 1111136	5W-40	SN/CF	A3/B4	Fully 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. Extended oil change intervals according to manufacturers recommendation. MB 229.5, Porsche A40, VW 502 00 / 505 00, BMW Longlife-01, Opel GM-LL-B-025, Renault RN0700 / RN0710
RAVENOL HCS Art. 1112105	5W-40	SM/SL/CF	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, VW 502 00 / 505 00, BMW Longlife-98, Renault RN0700 / RN0710, Opel GM-LL-B-025, Porsche

ENGINE OILS FOR PASSENGER CARS CleanSynto®

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL TSJ Art. 1112106	10W-30	SN(RC), SM(EC)	A3/B4	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-5, Resource Conserving, Energy Conserving, Toyota, Nissan, Honda, Mitsubishi, Mazda, Suzuki, Isuzu, Subaru, Daihatsu, KIA, Hyundai, SsangYong, Daewoo
RAVENOL TSi Art. 1112110	10W-40	SN, SM/CF	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 501 00 / 505 00, VW 502 00 / 500 00
RAVENOL DLO Art. 1112111	10W-40	CF	B4-02	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
RAVENOL LLO Art. 1112112	10W-40	SL(EC)/CF	A3/B3/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 / 505 00

ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Formel Standard Art. 1113110	10W-30	SF/CD	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
RAVENOL Turbo-C HD-C Art. 1113103	15W-40	CF-4/ CF/SL	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 228.3, MB 229.1, MAN 271, ZF TE-ML 07C, VW 505 00, Allison C4, Caterpillar TO-2, Volvo VDS, MACK EO-L, MTU Typ 2
RAVENOL Formel Super Art. 1113115	15W-40	SF/CD	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
RAVENOL Formel Extra Art. 1113120	20W-50	SF/CD	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
RAVENOL Turbo Extra Art. 1113125	20W-50	SL/CF	A3/B4, E2	Mineral multigrade motor oil used in petrol and diesel engines with and without turbo charging in passenger cars. MB 228.1, MB 229.1, VW 505 00, Volvo VDS, MAN 271, MTU
RAVENOL Super HD Art. 1113300	30	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
RAVENOL Super HD Art. 1113305	50	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

HIGH MILEAGE

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL SVE Standard Viscosity Ester Oil Art. 1116101	5W-30	SL/CF	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
RAVENOL SVS Standard Viscosity Synto Oil Art. 1115100	5W-40	SN/CF	A3/B4	Fully 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 / RN0711
RAVENOL HVT High Viscosity Turbo Oil Art. 1116102	5W-50	SN/CF	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
RAVENOL SVT Standard Viscosity Turbo Oil Art. 1116103	10W-40	SN/CF	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 501 00 / 505 00, VW 502 00 / 500 00
RAVENOL HVE High Viscosity Ester Oil Art. 1115101	10W-50	SN/CF	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
RAVENOL HVS High Viscosity Synto Oil Art. 1115102	10W-60	SN/CF	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
RAVENOL SVP Standard Viscosity Performance Oil Art. 1117100	15W-40	SJ/CF	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
RAVENOL HVP High Viscosity Performance Oil Art. 1116104	15W-50	SN/CF	A3/B4	Mineral 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

RALLYE- / RACING MOTOR OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL RCS Racing Competition Synto Art. 1141090	5W-40	SM/CF	A3/B4	High performance fully synthetic engine oil especially developed to maximize 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.
RAVENOL RRS Racing Rally Synto Art. 1142100	5W-50	SN/CF	A3/B4	Semi-synthetic multigrade engine 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. MB 229.1
RAVENOL RSE Racing Sport Ester Art. 1141105	10W-50	SN/CF	A3/B4	Fully synthetic multigrade engine 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. MB 229.1
RAVENOL RSS Racing Sport Synto Art. 1141100	10W-60	SN/CF	A3/B4	Fully synthetic multigrade engine oil 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. MB 229.1
RAVENOL RFS Racing Formel Sport Art. 1142105	15W-50	SN/CF	A3/B4	Semi-synthetic multigrade engine oil based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in Motor-sport applications providing maximum release of power with ultimate engine protection. MB 229.1
RAVENOL Racing Kart 2T Art. 1144100				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. FIA-CIK Homologation
RAVENOL Racing Castor 2T Art. 1144101				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
RAVENOL Racing Gear Oil Art. 1221111		GL-5 + LS		A fully synthetic transmission oil 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
RAVENOL RHP Racing High Performance Gear Art. 1145100	75W-90	GL-4/ GL-5		Fully synthetic transmission oil especially developed for both synchro and dog engagement gearboxes in motorsport. It provides outstanding wear protection and thermal stability. Especially suitable for front wheel drive applications.
RAVENOL Racing Brake Fluid R 325+ Art. 1350604				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. FMVSS No. 116 DOT 4, ISO 4925

NATURAL GAS ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL TEG Gasmotorenöl Art. 1132100	10W-40	SL/CF	A3/B3	Semi synthetic high alloyed motor oil for natural gas engines. Natural gas engines
RAVENOL MGS Gasmotorenöl Art. 1133100	15W-40	CF-4/ SJ	A3/ B4, E2	High performance mineral multi grade motor oil used in natural gas engines. MAN 3271-1 (vehicle engines), Renault RGD, MB 226.9, TEDOM Group 1P (61-0-0281.2), Volvo CNG
RAVENOL Gasmotorenöl Art. 1133105	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.

ATF — TRANSMISSION FLUIDS FOR AUTOMATIC TRANSMISSIONS

-PROFESSIONAL LINE-

Product name	Description / Features
RAVENOL ATF M 6-Serie Art. 1212105	Synthetic ATF for 5-speed Mercedes-Benz automatic transmission. MB 236.10 (A 001 989 21 03), Chrysler 52107891AA
RAVENOL ATF M 9-Serie Art. 1211108	Synthetic ATF for 7-speed Mercedes-Benz automatic transmission (NAG2VSPORT). MB 236.14 (001 989 68 03 10), MB 236.12, MB 236.10
RAVENOL ATF M 9-FE Serie Art. 1211127	Synthetic ATF for 7-speed ATF 7G-Tronic with ECO Stop-Start function of Mercedes-Benz (NAG2FE+). MB 236.15, MB A 001 989 78 03, MB A 001 989 77 03, ATF 7134FE, ATF 134FE, ATF 134ME
RAVENOL ATF 5/4 HP Fluid Art. 1212104	Fully 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 DPO, VW/Audi G052162 A1/A2/A6, VW TL 52 162, ZF S671 090 170
RAVENOL ATF 6HP Fluid Art. 1211112	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
RAVENOL ATF 8HP Fluid Art. 1211124	Synthetic ATF for 8HP-series transmission of ZF and 6-speed automatic transmissions of 6HP-series for AUDI Q7. BMW 83222305397 (until 02.2013 83222152426), ATF L 12108, VW/AUDI G 060162 A1/A2/A6, ZF TE-ML ZF S671 090 312, ZF TE-ML 11 9HP48, Land Rover LR023288 and LR023289, ZF TE-ML 11 9HP48
RAVENOL Transfer Fluid TF-0870 Art. 1211128	Fully synthetic gear lubricant for the latest generation of electronically controlled active transfer box. BMW 83220397244 for Transfer Case xDrive: ATC300, ATC350, ATC400, ATC450, ATC500, ATC700, Land Rover IYK500010, ATF TF-0753, Nissan 999MP-TF0870P, KLD22-00001EU for Transfer Case ATX90A, Porsche 000-043-301-36 / 00004330136 for Cayenne Transfer Case, VW G052515A2 for Transfer Case OAD and OBV for Touareg, Q7, VW G052533A2 for Transfer Case OC7 for Amarok
RAVENOL T-IV-Fluid Art. 1212102	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 (nur 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 RESF22A (Aisin AW55-50SN Nissan Altima, Maxima, Quest, Sentra), Matic K, Mazda K020-W0-049, Suzuki 99000-22800-001, ESSO JWS3317
RAVENOL ATF T-WS Lifetime Art. 1211106	Synthetic ATF with a special formulation for long-life filling. Toyota / Lexus JWS3324, Toyota 08886-02305, 00289-ATFW5, 08886-81210, Aisin Warner Automatic Gearbox from 2008, Chrysler 05189978AA, Chrysler 05189979AA, Chrysler Mopar AS68RC, VW/AUDI transmission 0C8 (Touareg 2011-, Q7 2010-), VW G055540A2, Isuzu 2-90531-200-0, 2-90531-201-0, VOLVO 31256774, 31256775, 31256776
RAVENOL ATF FZ Art. 1211130	RAVENOL ATF FZ is a Full Synth. Low Viscosity ATF (Automatic-Transmission-Fluid) especially 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
RAVENOL ATF DSIH 6 Art. 1211133	Special fully 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
RAVENOL ATF Type J2/S Fluid Art. 1211115	Fully 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
RAVENOL ATF JF405E Art. 1211118	Fully 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
RAVENOL ATF JF506E Art. 1211119	Fully synthetic ATF for JATCO 5-speed automatic transmission JF506E for Ford, LandRover, VW, Jaguar, Seat. FORD WSS-M2C922-A1 für 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

ATF — TRANSMISSION FLUIDS FOR AUTOMATIC TRANSMISSIONS

-PROFESSIONAL LINE-

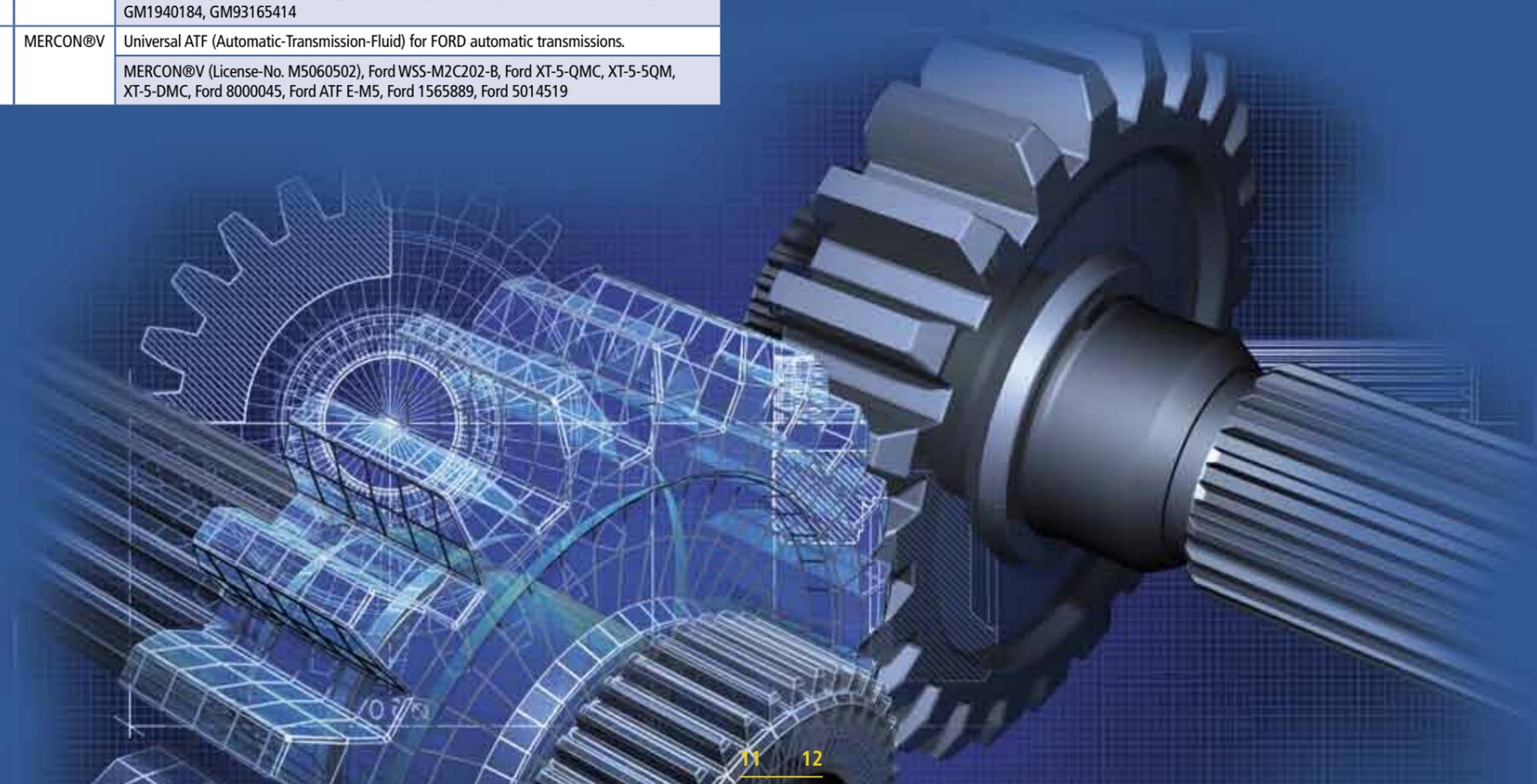
Product name	Description / Features
RAVENOL F-LV Fluid Art. 1211120	Fully synthetic ATF for Ford automatic transmission 4F27E from 2008 and 4R75W, 5R110W, 6R80, 6F35, 6F50, ECVT from 2009. Ford XT-10-QLVC, Ford WSS-M2C-938A, Mercon LV, Motorcraft XT-10-DLV, Motorcraft XT-10-QLV
RAVENOL ATF Matic Type D Art. 1211121	Fully synthetic ATF for 4- and 5-speed automatic transmissions of Nissan. Nissan KLE2200002, KLE2000004, 999MP-MTS00P, KE90899931
RAVENOL ATF MM SP-III Fluid Art. 1212103	Universal ATF (Automatic-Transmission-Fluid) for MITSUBISHI, HYUNDAI and 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.
RAVENOL ATF RED-1 Art. 1211117	Fully synthetic ATF for special 5-speed automatic transmissions of KIA and Hyundai. ATF RED-1, KIA UM040-CHO20, 04500-00140, Hyundai 04500-00140
RAVENOL ATF SP-IV Fluid Art. 1211107	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
RAVENOL ATF MM-PA Fluid Art. 1211126	Fully synthetic ATF for automatic transmissions of Mitsubishi V5AWF. Mitsubishi V5AWF, 4030401, DIA QUEEN ATF-PA
RAVENOL ATF Type Z1 Fluid Art. 1211109	Fully synthetic ATF for all 4-and 5-speed automatic transmissions of Honda. Honda 08266-99904, Honda 08266-99907, Honda 08200-9005
RAVENOL DW-1 Fluid Art. 1211125	Fully synthetic ATF for automatic transmissions of Honda. Honda 08200-9008, 08200-9009, Honda 08266-99964, 08266-99967
RAVENOL DPS Fluid Art. 1211113	Synthetic special fluid with special additives for Dual Pump System (DPS) of Honda. Honda DPFI (DPSF), 08293-99904, DPSF2 Ultra 4WD Rear, 08200-9007
RAVENOL SU5 ATF Fluid Art. 1211122	Fully synthetic ATF for 5-speed automatic transmissions of Subaru. Subaru 4ATF, 5ATF, ATF HP, Subaru K0415-Y0700, Subaru SOA868V9240, SOA868V9241, SOA427V1500
RAVENOL ATF BTR 95LE Art. 1211116	Fully synthetic ATF for transmissions of BTR Engineering Australien for SsangYong, FORD, Maserati, Mitsubishi and others. M74LE, M85LE, M91LE, M95LE, ATF Type TQ95
RAVENOL CVT Fluid Art. 1211110	Fully 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, 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
RAVENOL CVT KFE Fluid Art. 1211134	Fully 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
RAVENOL CVTF NS2/J1 Fluid Art. 1211114	Fully synthetic CVTF (Continuously Variable Transmission Fluid) for CVT of JATCO. Mitsubishi S0001401, Nissan KLE520000403, KLE5200002, PSA Standard 9735EF, Suzuki CVT Fluid Green-1 99000-22B15-046, Dodge Caliber, Jeep Compass, Jeep Patriot
RAVENOL CVTF NS3/J4 Fluid Art. 1211132	Fully synthetic CVTF (Continuously Variable Transmission Fluid), based on PAO with special addition and inhibition. Nissan KLE53-00004, KLE53-00002, 999MP-NS300P, ATF NS-3, Mitsubishi MZ320261, MZ320262, MZ320288, MZ102658, ATF J4.
RAVENOL DCT/DSG Getriebe Fluid Art. 1212106	Semi-synthetic transmission fluid for Dual Clutch Gear. MB 236.21, VW G 052 182 A2, Audi G 052 529 A2 S-Tronic, BMW DCTF-1, BMW 83220440214, 83222148579, 83222148578, 83222147477, FORD 1490763, FORD 1490761, FORD WSS-M2C936-A, FORD USA XT-11-QDC, FORD WSD-M2C200-D2, Chrysler 68044345 EA, Peugeot/Citroën 9734.S2 for DCS6 (Peugeot 4007, CITROËN C-CROSSER), FIAT 9.55550-MZ6 for TCT (Twin Clutch Transmission) in Alfa Romeo MiTo and Giulietta, Renault EDC (Efficiency Dual Clutch System), VOLVO 1161838, VOLVO 1161839, MITSUBISHI MZ320065, MITSUBISHI Dia-Queen SSTF-I, BOT 341, Porsche 0000 043 20
RAVENOL DCT GT-R Fluid Art. 1211129	Special transmission fluid for use in the new Nissan GT-R R35 double clutch transmission (DCT). Nissan KLD4100002EU, KLD41-00002, 999MP-GTRT00P

ATF — TRANSMISSION FLUIDS FOR AUTOMATIC TRANSMISSIONS

Product name	GM-Specification	Description / Features
RAVENOL ATF +4® Fluid Art. 1211100	ATF+4®	Fully 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 68218057AA 68218058AA 05013457AA 05013458AA MS-9602
RAVENOL ATF Fluid Type F Art. 1213105		Special transmission fluid for Ford, Borg-Wagner, Volvo. FORD Type M2C-33F/G, Motorcraft XT-1-QF, VOLVO 97330
RAVENOL ATF Fluid Art. 1213101	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 automatik transmissions, turbo clutches, power couplings and other hydrostatic and hydrodynamic systems. MB 236.2, MAN 339 Type A, Renk Dornomat, Cat. TO-2, Allison C4
RAVENOL ATF Dexron D II Art. 1213102	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, 11A, 14A, 17C, 05L, VOITH H55.6335.xx, MAN 339 Type Z-1, Ford SQM-9010B, Ford M2C-138 CJ, 166H, 185A, Cat. TO-2, MERCON, RENK DORNOMAT, CVT, Allison C3/C4.
RAVENOL ATF Dexron F III Art. 1213104	DEXRON® III F-30140	High performance semi synthetic transmission fluid for automatic gearboxes, hydraulic steering, power converters and transmissions. MB 236.1, MB 236.5, MAN 339 Type V1, MAN 339 Typ Z1, ZF TE-ML 02F, 03D, 04D, 14A, 17C, 05L, Ford Mercon M-940717, Voith, Nissan, Allison C4, Cat. TO-2
RAVENOL ATF Dexron III H Art. 1212100	DEXRON® III H, Allison C4	High performance semi 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 are required. MAN 339 Type Z2, ZF TE-ML 04D, 14B, 05L, 16L, 17C, Voith 55.6336.3x Extended Drain (G1363), Allison C4-33072010 (ATF III H), Allison TES-389 AA-33072010 (ATF III H), MB 236.1, MB 236.6, MB 236.9, MB 236.10, VOLVO Transmission Oil 97341, VOLVO 1161521 and 1161621
RAVENOL ATF Dexron II E Art. 1211103	Dexron® II E	High performance fully 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 Type Z-2, MAN 339 Type V-2, ZF TE-ML 04D, 09X, 14B, 16L, Cat. TO-2
RAVENOL ATF DEXRON® VI Art. 1211105	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, GM1940184, GM93165414
RAVENOL ATF MERCON V Art. 1212101	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-SQM, XT-5-DMC, Ford 8000045, Ford ATF E-M5, Ford 1565889, Ford 5014519

POWER STEERING FLUIDS / SPECIAL HYDRAULIC FLUIDS

Product name	Classifications	Description / Features
RAVENOL GHA-F Gearbox Hydraulic Actuator Fluid Art. 1181201		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
RAVENOL PSF-Y Fluid Art. 1211123		Fully synthetic servo steering fluid for Volkswagen, Mercedes and Chrysler. VW G009300A2, Mercedes A0009898803, Chrysler 05098158A, MS-5931, MS-9933, 04883077, GM 9985010, 89020661, 1050017, Texaco TL 4634, HONDA 08206-9002, 08285-P99-01Z-T1
RAVENOL SSF Special Servolenkung Fluid Art. 1181100	ISO 7308	DIN 51 524 Part 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), MB 343.0 / 345.0, CHF115, CHF202, Opel 1940 715, Opel 1940 766, Ford M2C204-A, 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
RAVENOL LHM+ Fluid Art. 1181110	ISO 7308	DIN 51 524 Part 2 Special hydraulic fluid designed for use in vehicles of the PSA group (Citroën, Peugeot). PSA Standard B 71 2710
RAVENOL Hydraulik PSF Fluid Art. 1181000		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



ATF - TRANSMISSION FLUIDS FOR AUTOMATIC TRANSMISSIONS - PROFESSIONAL LINE / ATFS / POWER STEERING FLUIDS / SPECIAL HYDRAULIC FLUIDS



GEAR OILS FOR MANUAL TRANSMISSIONS - PROFESSIONAL LINE -

Product name	Classifications			Description / Features
	SAE	API	Specifi- cation	
RAVENOL MTF-1 Art. 1221102	75W-85	GL-4/GL-5		Fully synthetic gear oil based on PAO for for specific switching, distribution and differential gears. General Motors 1940182, 93740319, Hyundai 04300-00110, 04300-00140, 08950-00020-B, 08950-00020-A, MB 235.7 A 001 989 33 03, MB 235.4 A 001 989 14, OPEL B 040 2071, Mitsubishi 3717610, MTF BOT 402 BOT 0063 for F35/MU3 5-stroke SAAB/GM/Opel, Nissan KLD26-75802, KE91699931, KE91699942, 999MP-MTF00P, TOYOTA 08885-02606, 08885-81070, 08885-81060
RAVENOL MTF-2 Art. 1221103	75W-80	GL-4/MT-1		Fully synthetic gear oil based on PAO for modern manual transmissions. AC Delco 10-4033, 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, General Motors 1940711, 88861800, 88861801, 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 for Land Rover, MG and Mini Cooper, Nissan 999MP-MTF20P KE91699932R, Peugeot 9730A2, Subaru K0321-F0090, TOYOTA 08885-00705, VOLVO 1161681 1161745, VW/AUDI G 052911A2, G 055538A2 for ZF 6S450 Amarok 0C6, MTF CT4447 M+, MTF ETL8997B
RAVENOL MTF-3 Art. 1221104	75W			Fully synthetic gear oil for special manual transmissions. BMW 2300 7533 818 MTF LT-3, 83 22 0 396 706, 83 22 7 533 818 MTF LT-3, MTF JWS2271, PSA Standard 9730A8, TOYOTA 08885-81001, 08885-81081, VOLVO 1161839, 1161838, VW/AUDI G 060726A2, G 052171A2, VW G 070 726 A2, FORD WSS-M2C200-D2

GEAR OILS FOR MANUAL TRANSMISSIONS

Product name	Classifications			Description / Features
	SAE	API	Specifi- cation	
RAVENOL MDL Multi-Disc locking differentials Art. 1222103				Semi-synthetic lubricant for clutch-type lamella limited slip differentials. AcDelco 10-4032, Daimler A 0019895903 for Mercedes-Benz M-Klasse (W164, X164) GM 92184900, Land Rover LR019727, BOT 720, TYK500070, Porsche 000.043.300.37 for Porsche Cayenne, Porsche Panamera, VW G052196A2 for VW Touareg
RAVENOL STF Synchronmesh Transmission Fluid Art. 1221105				Fully 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
RAVENOL Truck MTF-50 Art. 1221106				Fully synthetic heavy duty manual transmission oil requiring a non-EP lubricant. API MT-1, EATON PS-164 Rev. 7, MACK TO-A PLUS, International TMS-6816, ZF FreedomLine, TE-ML 02L, ArvinMeritor 0-81
RAVENOL VSG Art. 1221101	75W-90	GL-5/GL-4	MIL-L-2105D	Fully synthetic gear oil for use in heavily loaded transmissions. MB 235.8, MB 235.11, MAN 342 Type S-1, ZF TE-ML 12B, 16F, 17B, SCANIA STO 1:0, Renault LKW, DAF LKW (for extended drain), VOLVO 97312 / 97315, IVECO, BOT 328, 130M, 720, BMW 83229407768, BMW OSP, BMW SAF-X0
RAVENOL SSG Spec Synt LKW Getriebeöl Art. 1221100	75W-80	GL-4	MIL-L-2105D	Fully 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
RAVENOL Getriebeöl SLG Art. 1223305	80W-90	GL-4/GL-5/ MT-1	MIL-L-2105A/B/ C/D/E	High performance multifunction gear oil for truck manual transmissions, auxiliary drives an rear axles, including highly stressed hypoid drive axles. MAN 341 Type E2, MAN 3343 Type M (extended oil change intervals), SCANIA STO 1:0, ZF TE-ML 02B, 05A, 12E, 16B, 17B,19B, 21A, VOLVO 97310

GEAR OILS FOR MANUAL TRANSMISSIONS

Product name	Classifications			Description / Features
	SAE	API	Specifi- cation	
RAVENOL Teilsynthetisches Getriebeöl TSG Art. 1222101	75W-90	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. VW 501 50, Ford M2C-175, GM Opel B 040 104 3
RAVENOL TGO Teilsynthetisches Getriebeöl Art. 1222105	75W-90	GL-5	MIL-L-2105D	Semi synthetic gear oil especially for highest stressed hypoid geared transmissions. ZF TE-ML 05A, 07A, 17B, CS 3000B, Ford M2C-9002A, Mack GO-G, GM, MB 235.0, MB 235.1
RAVENOL Getriebeöl LS Art. 1222102	75W-90	GL-5 + LS	MIL-L-2105D	Semi-synthetic gear oil for Limited Slip (LS) type differentials. ZF TE-ML 05C/D, Limited Slip
RAVENOL PSA Art. 1222100	75W-80	GL-4+		Semi synthetic gear oil especially developed for Citroën and Peugeot vehicles. PSA Standard B 71 2315
RAVENOL TDG Art. 1221109	75W-110	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 05B, 12B, 16F, 19C, 21B, MACK GO-J, DAF, Scania STO 1:0
RAVENOL Getriebeöl SLS Art. 1221110	75W-140	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
RAVENOL Sperrdiff. Hypoid Getriebeöl LS Art. 1223301	85W-90	GL-5 + LS	MIL-L-2105D	Mineral gear oil for Limited Slip (LS) and locking type differentials. ZF TE-ML 05C, 12C, 16E, Ford Specification, Limited Slip
RAVENOL Sperrdiff. Hypoid Getriebeöl LS Art. 1223302	90	GL-5 + LS	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
RAVENOL Getriebeöl EPX Art. 1223201, Art. 1223202	80 90	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. MB 235.0, MAN 342 Type M1, ZF TE-ML 05A, 07A, 16B, 16C, 16D, 17B, Ford SQM-2C-9002AA
RAVENOL Getriebeöl EPX Art. 1223205	80W-90	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
RAVENOL Getriebeöl EPX Art. 1223206	85W-90	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
RAVENOL Getriebeöl EPX Art. 1223211	85W-140	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
RAVENOL Getriebeöl EPX Art. 1223210	140	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
RAVENOL Getriebeöl MZG Art. 1223101	80	GL-4	MIL-L-2105D	Mineral multifunction gear oil for lubricating of manual transmissions, differentials and steering transmissions in passenger cars. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02A, 17A, MB 235.1, Ford SQM-2C-9008A
RAVENOL Getriebeöl MZG Art. 1223105	80W-90	GL-4	MIL-L-2105D	Mineral multifunction gear oil for lubricating of manual transmissions, differentials and steering transmissions in passenger cars. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02B, 16A, 17A, 19A, MB 235.1, Ford SQM-2C-9008A
RAVENOL Getriebeöl MZG Art. 1223102	90	GL-4	MIL-L-2105D	Mineral multifunction gear oil for lubricating of manual transmissions, differentials and steering transmissions in passenger cars. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02A, 16A, 17A, MB 235.1, Ford SQM-2C-9008A

ATF — TRANSMISSION FLUIDS FOR COMMERCIAL VEHICLE AUTOMATIC TRANSMISSIONS

Product name	Classifications	Description / Features
RAVENOL ATF ZMS (*Professional Line*) Art. 1211102		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 Z4 (ZF Ecomat 150.000 km), ZF TE-ML 04D, 14E, 16N, 20E
RAVENOL LKW ATF Synthetik Art. 1211104		Fully synthetic ATF for the latest generation commercial of vehicle automatic transmissions.

COMMERCIAL VEHICLES ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Arctic Truck Art. 1121100	0W-30	CH-4/SJ		Fully synthetic motor oil for diesel engines of commercial vehicles and high-performance equipment with heavy loads and in stationary plants. "Cold start" at -40°C. Global DHD-1, JASO DH-1, Caterpillar ECF-1, Cummins CES 20076, Detroit Diesel 7S E270 (4-Stroke Cycle), MACK EO-M, Komatsu, Hitachi, Liebherr
RAVENOL Super Performance Truck Art. 1122102	5W-30	CF/CI-4	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, VDS 2, Cummins CES 20076, -77, -78, Renault RXD, IVECO, MACK EO-M Plus, Voith Retarder B, Global DHD-1, JASO DH-1, SCANIA LDF-3
RAVENOL Super Synthetic Truck Art. 1121101	5W-30		E7, E6, E4	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. MB 228.51, MAN 3477, MTU Type 3.1, Volvo VDS-3, Renault RXD
RAVENOL NDT Nord Duty Truck Art. 1122103	5W-40	CJ-4/SM		All-season multigrade engine oil for use in heavy duty commercial vehicle diesel engines with optimized exhaust systems. Extended oil change intervals. MB 228.31, Volvo VDS-4, Renault RLD-3, Mack EO-O Premium plus, MTU Type 2, Cummins CES 20081, Detroit Diesel DD93K218, DD93K215, DD93K214
RAVENOL Expert SHPD Art. 1122105	10W-40	CI-4/SL	E4, E7, A3/B4	Universal low friction motor oil for high performance suction and turbo diesel engines. Longest oil change intervals. MB 228.3, MB 229.1, Cummins CES 20077, -78, DEUTZ DQC III-10, MAN M3275, MACK EOM-Plus, MACK EO-N, MTU Type 2, Renault VI RLD-2, TEDOM 258-3 (61-0-0258), Volvo VDS 3, YaMZ, Cummins CES 20071, -72, -76, SCANIA LDF, Global DHD-1, VW 500 00, 505 00, Caterpillar TO-2, Allison C4, Voith Retarder B, IVECO, DAF
RAVENOL Performance Truck Art. 1122106	10W-40	CF/CI-4	E4, E7, A3/B4	Semi-synthetic multi grade low friction diesel engine motor oil, UHPD High performance motor oil. Suitable for longest oil change intervals. MB 228.5, MAN M3277, MTU Type 3, VOLVO VDS 3, Renault RVI RXD/RLD-2, TEDOM 258-4 (61-0-0258), DAF HP1/2, DEUTZ DQC III-10, SCANIA LDF 2, MACK EO-M Plus, Cummins CES 20076, -77, -78, JASO DH-1 (JASO M355:2000), Voith Retarder B, Global DHD-1, SCANIA LDF-3
RAVENOL EURO IV Truck Art. 1122107	10W-40		E6, E7	Universal low friction motor oil based on synthetic PAO- and HC-Base oils, for high performance suction and turbo diesel engines. Also suitable for gasoline engines. Recommended for EURO I, II, III, IV and EURO V engines. MB 228.51, MAN M3477, MTU Typ 3, MTU Typ 3.1, Renault RXD, VOLVO VDS-3, Mack EO-N, Renault VI RLD-2, Scania LDF, Deutz DQC III-10 LA, DAF HP-2, MAN M3277 (CRF, exhaust gas return system)
RAVENOL EURO VI Truck Art. 1122108	10W-40	CJ-4/ SN	E9	Semi-synthetic fuel economy "Low SAPS" year-round multigrade diesel engine oil based on the latest additive technology combined with very special base oils. Deutz DQC III-10 LA, MB 228.51, Cummins CES 20076/77, MAN M3477, M3271-1, MTU Type 3.1, MTU Type 3, VOLVO VDS-3, Renault RLD-2, RXD, MACK EO-N, Scania LDF-2,
RAVENOL Low Emission Truck Art. 1122110	10W-30	CJ-4/SM	E7, E9	Heavy Duty engine which fulfils API CJ-4 requirements and is formulated with unique low SAPS high performance additives in combination with special selected base oils. VOLVO VDS-4, Mack EO-O Premium Plus, Renault VI RLD 3, MB 228.31, MAN M3575, Caterpillar ECF-2/-3

COMMERCIAL VEHICLES ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Low Emission Truck Art. 1122109	10W-40	CJ-4/SN	E9	All-season multigrade SHPD engine oil (Super High Performance Diesel), which has been developed to the exhaust emission standards Euro 5 and Euro 6 and is used in extremely heavy duty commercial vehicle diesel engines MB 228.31, MAN M 3575, Volvo VDS-4 (STD 417-0001), Renault VI RLD-3, Deutz DQC III-10 LA, MTU MTL 5044 Type 2.1, Caterpillar ECF-1a, ECF-2 and ECF-3, Cummins CES 20081, Detroit Diesel DDC 93K218, Mack EO-O Premium Plus
RAVENOL Low Emission Truck Art. 1122100	15W-40	CJ-4/SM	E7, E9	Mineral 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. VOLVO VDS 4, Mack EO-O Premium Plus, Renault VI RLD 3 (compliance), Detroit Diesel Power Guard Oil Specification 93K214, Cummins CES 20081, TATRA 30/12, MB 228.31, MAN M3575, Caterpillar ECF-2/-3, JASO DH-2, Japan Ultra-Low PM Emission Diesel, EURO IV and EURO V, U.S. EPA Tier 3 emissions regulation, DDC 93K218
RAVENOL Turbo-Plus SHPD Art. 1123105	10W-30	CI-4/SL	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. YAMZ, MB 228.3, MAN M 3275, Volvo VDS 3, MTU Type 3, Renault RLD, Cummins CES 20071, -72, -76, -77, Caterpillar TO-2
RAVENOL Turbo-Plus SHPD Art. 1123115	15W-40	CI-4/CI-4+/CH-4/SL	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 Type 2, STEYR Motor GAZ 560, YaMZ, Cummins CES 20071, -72, 76, -77, -78, Renault RLD/RLD-2, ZF TE-ML 07C, 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, KHD (Klöckner-Humboldt Deutz), Scania LDF
RAVENOL Turbo-Plus SHPD Art. 1123120	20W-50	CI-4/SL	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, MAN M 3275, Volvo VDS 3, MTU Type 3, Renault RLD, Cummins CES 20071, -72, -76, -77, Caterpillar TO-2



COMMERCIAL VEHICLES ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL Formel Diesel Super Art. 1123205	10W-30	CF-4/CF	E2, B4	High performance mineral multi grade motor oil for diesel engines with or without turbo charger. Extended oil change intervals. MB 228.1, VW 505 00, MAN 271, Volvo VDS, MTU Type 2, ZF TE-ML 07C, Cat. TO-2, Allison C4
RAVENOL Formel Diesel Super Art. 1123215	15W-40	CF-4	E2, B4	High performance mineral multi grade motor oil for diesel engines with or without turbo charger. Extended oil change intervals. MB 228.1, MB 229.1, MAN 271, ZF TE-ML 07C, MTU Type 2, VW 505 00, Allison C4, Cat. TO-2, VOLVO VDS, MACK EO-L, Renault RD-2/RLD, TEDOM 258-2 (61-0-0258)
RAVENOL Formel Diesel Super Art. 1123220	20W-50	CF-4	E2, B4	High performance mineral multi grade motor oil 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
RAVENOL Spezial Diesel Art. 1113310, Art. 1113311	10W-30 15W-40	CD	B2	Multigrade motor oil for diesel engines with and without turbo charging. All year lubrication at different conditions. MIL-L-46152 B, MIL-L-2104 D, MB 227.1, CCMC G4
RAVENOL Super Truck Art. 1123710	10W	CF-4	E2, B4	Monograde mineral motor oil used in trucks and stationary plants. High wear and corrosion protection. MB 228.0, MAN 270, MTU Type 1, VOITH DIWA
RAVENOL Super Truck Art. 1123715	20W-20	CF-4	E2, B4	Monograde mineral motor oil used in trucks and stationary plants. High wear and corrosion protection. MB 228.0
RAVENOL Super Truck Art. 1123720	30	CF-4	E2, B4	Monograde mineral motor oil used in trucks and stationary plants. High wear and corrosion protection. MB 228.0, ZF TE-ML 04B
RAVENOL Super Truck Art. 1123725	40	CF-4	E2, B4	Monograde mineral motor oil used in trucks and stationary plants. High wear and corrosion protection. MB 228.0, MAN 270, MTU Type 1, VOITH DIWA, ZF TE-ML 04B
RAVENOL Super Truck Art. 1123726	50	CF-4	E2, B4	Monograde mineral motor oil used in trucks and stationary plants. High wear and corrosion protection. MB 228.0
RAVENOL Standard Truck Art. 1123610	10W	SG/CF	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, MB 228.0, MAN 270, Cat. TO-2, MTU Type 1, Allison C4, ZF TE-ML 03, 04, 05, 06, 07, 10, 14
RAVENOL Standard Truck Art. 1123615	20W-20	SG/CF	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, MB 228.0, MAN 270, Cat. TO-2, MTU Type 1, Allison C4, ZF TE-ML 03, 04, 05, 06, 07, 10, 14
RAVENOL Standard Truck Art. 1123620	30	CD	E2, B4	Universal mineral mono grademotor 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 228.0, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D
RAVENOL Standard Truck Art. 1123625	40	CF	E2, B4	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 228.0, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D
RAVENOL Standard Truck Art. 1123626	50	CD	E2, B4	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 228.0, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D

TRACTOR AND OFF-HIGHWAY LUBRICANTS

Product name	Classifications			Description / Features
	SAE	API	ACEA	
RAVENOL STOU Art. 1310100	10W-30	SF/CE/CF-4/ CG-4, GL-4, HLP ISO VG 68	E2	Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions, hydraulic systems and compressors. SAE 80W, API GL-4, MIL-L-2105, Allison C4, Caterpillar TO-2, ZF TE-ML 06B, 07B, HLP ISO VG 68, Vickers-Pump test, Ford-Pump test, 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 Compressor, Atlas Copco Compressor
RAVENOL STOU Art. 1310112	15W-30	CE/SF, GL-4, HLP ISO VG 68	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
RAVENOL STOU Art. 1310111	10W-40	CG-4, GL-4, ISO VG 32-100	E2	Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems. Massey-Ferguson M 1127, M 1139, M 1144, MB-Blatt 227.1, John Deere J 27 A, J20 C/D, Steyr 387 88001, Case International J I Case MS 1118/1209, FIAT AF 87, Ford ESN-M2C-41B, -86A, -121E, -134D, -159 B/C, Ford NH 024C, 324B, 40B, International Harvester B6, MIL-L-2105, MIL-L-2104 D, Allison C-4, Caterpillar TO-2, ZF TE-ML 06B, 07B, Denison HF 2, Holman Compair Kompressor, Atlas Copco Kompressor
RAVENOL STOU Art. 1310113	15W-40	SF/CE/CF-4, GL-4	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 C-4, Cat. TO-2, Ford M2C 86A, 134D, John Deere J 27, NH 420A / NH 410B, MB 227.1
RAVENOL STOU Art. 1310114	20W-40	SF/CE/CF-4, GL-4	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 C-4, Cat. TO-2, Ford M2C 86A/ 134D, John Deere J 27, NH 420A / NH 410B, MB 227.1
RAVENOL CATOEL TO-4 Art. 1310610, Art. 1310613, Art. 1310614	10W 30 40	CF/CF-2		Specific oil for construction vehicles and tractor vehicles Caterpillar TO-4, Allison C4, Komatsu Micro Clutch, Eaton Fuller, ZF TE-ML 03C, 07F
RAVENOL CATOEL TO-4 Art. 1310615, Art. 1310616	50 60	CF		Specific oil for construction vehicles and tractor vehicles. Caterpillar TO-4, Allison C4, Komatsu Micro Clutch, Eaton Fuller, ZF TE-ML 03C, 07F
RAVENOL UTTO BIO Art. 1310720		GL-4		Biodegradable universal hydraulic and transmission oil for use in hydraulic and transmission systems of agriculture and road construction equipment. Massey Fergusson, John Deere, Ford New Holland, Biodegradability: CEC-L-33-T83 <90% (3 Wks.)
RAVENOL Getriebeöl UTTO Art. 1310700		GL-4		Mineral gearoil for use in hydraulic and transmission systems of tractors. ZF TE-ML 03E, 05F, 06K, 17E, 21F, Ford M2C-134D, CNH MAT 3525, MF M-1135, M-1143, M-1145, John Deere JDM 20A/C, Allison C3/C4, Caterpillar TO-2, VOLVO WB 101, Fiat, NH 410B, NH 420A, Case MS 1205, 1206, 1207

Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL Motobike 4-T Ester Art. 1171101	5W-30	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1171102	5W-40	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1172111	10W-30	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1172112	10W-40	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006 M049RAV112, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1171103	10W-50	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1171104	10W-60	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Mineral Art. 1173121	15W-40	SL	JASO MA, MA2	High performance mineral motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Ester Art. 1172113	15W-50	SM	JASO MA, MA2	High performance semi-synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Mineral Art. 1173123	20W-40	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006 M049RAV123, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike 4-T Mineral Art. 1173122	20W-50	SM	JASO MA, MA2	High performance fully synthetic motor oil with ester additive to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2006 M049RAV122, Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motobike V-Twin SAE 20W-50 Fullsynth. Art. 1171105	20W-50			High performance 3 in 1 fullysynthetic 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
RAVENOL Motobike V-Twin SAE 20W-50 Mineral Art. 1173105	20W-50			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
RAVENOL Fork Oil Ultra Light 2,5W, Light 5W Art. 1182101, Art. 1182102	2,5W 5W			Fully synthetic fork oil based on ester oils for all forks of high performance motorcycles, especially for SHOWA and USD-forks. Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi

Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL Fork Oil Medium 10W, Heavy 15W, Very Heavy 20W Art. 1182104, Art. 1182105, Art. 1182106	10W 15W 20W			Mineral oil based fork oil for all forks of road and off-road motorcycles. Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
RAVENOL Motogear Art. 1250050	75W-90	GL-4		Fully synthetic low friction gear oil with especially formulation for extremely stressed manual transmission and rear axles.
RAVENOL Motogear Art. 1250055	80W-90	GL-4		Transmission oil based on mineral oil with effective additives for manual transmissions.
RAVENOL Motogear Art. 1250070	80W-90	GL-5		Hypoid transmission oil based on mineral oil with special high pressure additions for manual transmissions.
RAVENOL Motogear Art. 1250100	10W-30	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
RAVENOL Motogear Art. 1250101	10W-40	GL-4		Semi-synthetic special multigrade gear oil based on synthesis technology and special esters for easily switching also under extremely hard operating conditions.
RAVENOL QUAD 4T Art. 1152160	10W-40	SL	JASO MA2	Semi-synthetic motoroil for Quads and ATV. KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI
RAVENOL Quadrogear Art. 1250200				Special axle oil developed for Quads and ATV with an integrated wet brake. KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI
RAVENOL Air Filter Oil Spray Art. 1360301				Spray oil for all foam material air filters of off-road and street motorcycles and Quads.
RAVENOL Air Filter Clean Spray Art. 1360302				Degreases and cleans all foam material air filters of off-road and street motorcycles and Quads thoroughly.
RAVENOL Kettenöl Off Road Spray Art. 1360303				Especially for chain lubrication of off-road motorcycles and Quads.
RAVENOL Kettenöl Reiniger Spray Art. 1360304				Degreases and cleans motorcycle chains as well as the chains of other vehicles thoroughly.
RAVENOL Carb Reiniger Spray Art. 1360305				Cleans carburetors in the suction and throttle valve area thoroughly.
RAVENOL Ketten-Spray Art. 1360032				Lubricating spray for chains.



2- AND 4-STROKE ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL MPS Motocross Powersynth 2T Art. 1144110		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
RAVENOL Vollsynthetisches 2-Taktöl VSZ Art. 1151100		TD ISO-L-EGD	JASO FD	Fully synthetic, high-quality two-stroke oil with special esters and Polyisobutylene (PIB) for air-and water-cooled 2-stroke engines. Suitable for separate lubrication and self-mixing systems. Recommended mixture: max. 1:100. JASO 049RAV151, Piaggio SI
RAVENOL Selfmix 2T Art. 1153100		TB ISO-L-EGB	NMMA TC-W JASO FB	Mineral motor oil for self-mixing systems and separate lubrication. Recommended mixture: 1:50. JASO 049RAV155, Husqvarna, Stihl, Partner, McCulloch, Jonsered, Oleo-Mac, Poulan, Maruyama, Dolmar, Oregon, Makita, Ryobi, Hitachi
RAVENOL Zweitakt-Motorenöl nicht selbstmischend Art. 1153101		SA		Mineral non-miscible motor oil for 2-stroke engines. For use at low and high temperatures, guarantees functional lubrication.
RAVENOL SCOOTER Fullsynth. 2-Taktöl Art. 1151150		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. JASO 049RAV153, Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha
RAVENOL SCOOTER Teilsynth. 2-Taktöl Art. 1152150		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. JASO 049RAV150
RAVENOL SCOOTER Mineral 2-Taktöl Art. 1153150		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. JASO 049RAV156, Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha
RAVENOL SCOOTER 4-Takt Teilsynth. Art. 1152155	10W-40	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
RAVENOL Snowmobiles Fullsynth. 2-Takt Art. 1151310		ISO-L-EGD	JASO FD	Fully synthetic motor oil for snowmobiles. Recommended mixture: max. 1:100. JASO 049RAV154, Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat
RAVENOL Snowmobiles Teilsynth. 2-Takt Art. 1152310		TC ISO-L-EGC	JASO FC	Semi-synthetic motor oil for snowmobiles. Recommended mixture: max. 1:75. JASO 049RAV152, Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris
RAVENOL Snowmobiles Mineral 2-Takt Art. 1153310		TB ISO-L-EGB	JASO FB	Mineral motor oil for snowmobiles. Recommended mixture: max. 1:50. JASO 049RAV157, Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris

2- AND 4-STROKE ENGINE OILS

Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL Snowmobiles 4-Takt Fullsynth Art. 1151311				Fully synthetic 4-stroke motor oil, especially for 4-stroke snowmobiles. Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris
RAVENOL Schneefräse 4-Takt Art. 1151106	0W-30	SL	ACEA A3/B4	Fully synthetic 4-stroke motor oil, especially for 4-stroke snow blowers. MTD, Honda, TORO, Yard-Man, CubCadet, Briggs&Stratton, McCulloch, Craftsman, Murray, Ariens, Caiman, Canadiana, Husqvarna, Partner, Snapper, Stiga, Swisher, White Outdoor
RAVENOL Schneefräse 4-Takt Art. 1151105	5W-30	SM/SL	ACEA A5/B5	High performance fully synthetic 4-stroke motor oil, especially for 4-stroke snowblowers. MTD, Honda, TORO, Yard-Man, CubCadet, Briggs&Stratton, McCulloch, Craftsman, Murray, Ariens, Caiman, Canadiana, Husqvarna, Partner, Snapper, Stiga, Swisher, White Outdoor
RAVENOL 4-Takt Gardenoil HD Art. 1113301	30	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



Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL MARINEOIL PETROL Art. 1162200, Art. 1163200, Art. 1163210	10W-40 15W-40 20W-50	SL		Motor oil for use in marine gasoline engines. VOLVO Penta AB, Mercruiser, Yanmar, Kohler
RAVENOL MARINEOIL DIESEL SHPD Art. 1162100, Art. 1163100, Art. 1163110	10W-40 15W-40 20W-50	CI-4/CF	ACEA: E7, B4	Motor oil for use in marine diesel engines. VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mer-cruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL
RAVENOL MARINE Gear Lube Art. 1233100		GL-5		Gear oil for use in marine transmissions. OMC, Volvo Penta, Mercruiser, Yanmar
RAVENOL MARINE PowerTrim&Steering Fluid Art. 1234100				Hydraulic oil for lubricating hydraulics in marine equipment. OMC, Volvo Penta, Mercruiser, Yanmar
RAVENOL Outboardoel 2T Fullsynth. Art. 1151200		TD	NMMA TC-W3	Fully synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protec-tion 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
RAVENOL Outboardoel 2T Teilsynth. Art. 1152200		TC	NMMA TC-W3	Semi-synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protec-tion 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
RAVENOL Outboardoel 2T Mineral Art. 1153200		TB	NMMA TC-W3	Mineral specifically formulated Outboard 2-stroke motor oil. Perfect lubrica-tion 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
RAVENOL Outboardoel 4T Art. 1153203	10W-30		NMMA FC-W	Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W. NMMA FC-W® FB-83140K, Mercury Verado, Yamaha, Suzuki, Honda, John-son/Evinrude, Tohatsu/Nissan
RAVENOL Outboardoel 4T Art. 1153204	10W-40		NMMA FC-W	Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W. NMMA FC-W® FB-83139K, Mercury Verado, Yamaha, Suzuki, Honda, John-son/Evinrude, Tohatsu/Nissan

Product name	Classifications			Description / Features
	SAE	API	Specifica-tion	
RAVENOL Outboardoel 4T Art. 1153205	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
RAVENOL Outboardoel 4T Art. 1153207	25W-40		NMMA FC-W	Mineral specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W. NMMA FC-W® FB-80812K, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/ Evinrude, Tohatsu/Nissan
RAVENOL Watercraft Teilsynth. 2- Takt Art. 1152210		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, Yamaha CE 50S, Mercury
RAVENOL Watercraft Mineral 2-Takt Art. 1153210		TB ISO-L-EGB	NMMA TC-W3	Mineral motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:50 NMMA TC-W3® RL-29901H
RAVENOL Watercraft Fullsynth. 2- Takt Art. 1151210		TD ISO-L-EGD	JASO FC, NMMA TC-W3	Fully synthetic motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:100. NMMA TC-W3® RL-29019G
RAVENOL Watercraft 4-Takt Art. 1151211		SG	NMMA FC-W	Fully synthetic motor oil for 4-stroke outboard engines in fresh water cooled 4-stroke water vehicle engines. Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan
RAVENOL MARINE 830 TBN8 Art. 1163001	30	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, FZG 8
RAVENOL MARINE 840 TBN8 Art. 1163002	40	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, FZG 8
RAVENOL MARINE 1230 TBN12 Art. 1163010	30	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
RAVENOL MARINE 1240 TBN12 Art. 1163011	40	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
RAVENOL MARINE 1630 TBN16 Art. 1163020	30	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 ship-board transfer boxes on boats. DEF STAN 91-22/2
RAVENOL MARINE 1640 TBN16 Art. 1163021	40	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 ship-board transfer boxes on boats. DEF STAN 91-22/2



Product name	ISO VG	Classification		Description / Features
		Specification		
RAVENOL Hydrauliköl TS Art. 1323101, Art. 1323102, Art. 1323103, Art. 1323104, Art. 1323105, Art. 1323106, Art. 1323107	10, 15, 22, 32, 46, 68, 100	HLP	DIN 51 524 Teil 2	Mineral hydraulic oil. Wide range of industrial applications. Vickers-Pumpentest, 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
RAVENOL Hydrauliköl TSX Art. 1323202, Art. 1323203, Art. 1323204, Art. 1323205, Art. 1323206, Art. 1323207	15, 22, 32, 46, 68, 100	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, FZG 12, Sperry Vickers M-2950-S, 1-286-S, Vickers Vane Pump, Denison HF-1, HF-0, HF-2, Cincinnati Milacron P68 (HM-32), P69 (HM-68), P70 (HM-46), CETOP RP 91H-HV, General Motors LH-04-1, LH-06-1, LH-15-1, AFNOR 48 603 HV, US Steel 136, 127
RAVENOL Hydrauliköl HLP-D Art. 1323303, Art. 1323304, Art. 1323305	22, 32, 46	HLPD	DIN 51 524 Teil 2	Hydraulic oil HLPD for use in agricultural, construction and plant machinery. MAN N 698, DENISON HF-0
RAVENOL Hydrauliköl TS AF 32 Art. 1323124, Art. 1323125, Art. 1323126	32, 46, 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. SEB 181.222, 181.226, Vickers-Pumpentest, Timken-Test acc. to DIN E 51434, MAN N 698, FZG-Test A 8,3/90: 12. Loadstep
RAVENOL Bio-Hydrauliköl (auf Esterbasis) Art. 1321104, Art. 1321105, Art. 1321106	32, 46, 68	HEES	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

INDUSTRIAL OILS / SPECIALTIES

Product name	ISO VG	Classifications		Description / Features
		Specification		
RAVENOL DOT 4 Art. 1350601		ISO 4925	FMVSS 116 DOT 4	Brake fluid for all vehicles with ABS-Characteristics. SAE J1704
RAVENOL DOT 5.1 Art. 1350602		ISO 4925	FMVSS 116 DOT 5.1	Brake fluid for all vehicles with ABS-Characteristics. SAE J1704
RAVENOL Calibration Fluid Art. 1350130		ISO 4113		Test fluid for the calibration of diesel injection pump and corrosion protection for inside conservation of fuel systems. SAE J 967D, MB 133.0, MTU
RAVENOL Calibration Fluid 2.5 Art. 1350131		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.

INDUSTRIAL OILS / SPECIALTIES

Product name	ISO VG	Classifications		Description / Features
		Specifications		
RAVENOL Getriebeöl CLP Art. 1332106, Art. 1332107, Art. 1332108, Art. 1332109, Art. 1332110, Art. 1332111, Art. 1332112	68, 100, 150, 220, 320, 460, 680		DIN 51 517 Teil 3, FZG 12, US Steel 224	CLP Gearoil for the use in industrial gearboxes. CLP 150: , AGMA 9005-D94, Cincinnati Milacron, Clean Panel Coker, CLP 320: Eickhoff, LOVAT LOV-204, S-200 Oxidation Tubes
RAVENOL Kompressorenöl VDL Art. 1330100, Art. 1330101, Art. 1330102	100, 150, 220	VDL 51 506		Use in stationary and mobile compressors, lubrication of engines and diesel engines. ATLAS COPCO, ABAC, ALUP, CompAir, FIAC, FINI, KAESER
RAVENOL Wärmeträgeröl 32 Art. 1330210				Mineral heat transfer oil.
RAVENOL Traföl 1000P Art. 1330201		IEC 60296 (03)		Insulating oil for transformers and switches.
RAVENOL Gatteröl Art. 1350370	320			Adhesive-capable lubricating oil for use in (open) bearings from metal finishing industries, as well as textile, packaging and web presses.
RAVENOL Kältemaschinenöl K Art. 1331104, Art. 1331105, Art. 1331106	32, 46, 68	DIN 51 503 group KAA		Compressor oil for the lubrication of refrigerating machines.
RAVENOL Kältemaschinenöl PAO Art. 1331255, Art. 1331256, Art. 1331259	46, 68, 220	DIN 51 503 group KAA/KC/ KE		Refrigeration oil for use in all types of refrigeration compressors such as piston, screw and centrifugal compressors. For dry and flooded evaporator.
RAVENOL Kältemaschinenöl POE Art. 1331202, Art. 1331203, Art. 1331204, Art. 1331205, Art. 1331206, Art. 1331207	15, 22, 32, 46, 68, 100			Compressor oil for the lubrication of refrigerating machines. HFC 134a, R 404a, R 507
RAVENOL Umlauföl NB-E Art. 1333003, Art. 1333004, Art. 1333005, Art. 1333006, Art. 1333007, Art. 1333008, Art. 1333009, Art. 1333010, Art. 1333011	22, 32, 46, 68, 100, 150, 220, 320, 460			Recirculating oil. DIN 51 524 Part 1, Cat. HL, DIN 51 517 Part 2, Cat. CL, DIN 51 506 VBL/VCL
RAVENOL Vakuumpumpenöl ISO VG Art. 1330704, Art. 1330705, Art. 1330706, Art. 1330707, Art. 1330708	32, 46, 68, 100, 150	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
RAVENOL Getriebeöl Glycosynth Gear Art. 1332308, Art. 1332309, Art. 1332310	150, 220, 320		DIN 51 517 Teil 3, FZG 12	Synthetic industrial gear oil for the lubrication of heavy loaded mechanical gearboxes and bearings with a high thermal load.
RAVENOL Bettbahnöl Art. 1350374, Art. 1350375, Art. 1350376, Art. 1350377, Art. 1350378	32, 46, 68, 150, 220		DIN 51 502 CGLP	Way-sliding oil for heavy-duty performance.
RAVENOL Turbinenöl T Art. 1330354, Art. 1330355, Art. 1330356, Art. 1330357	32, 46, 68, 100	ISO 6743-0	DIN 51 515 L-TD	High quality turbine oil. BS 489
RAVENOL Sägekettenöl S 85 Art. 1350300				Chainsaw oil.
RAVENOL Super Sägekettenöl Art. 1350301				Readily biodegradable chainsaw oil. «Blauer Engel» acc. to RAL-ZU 48, KWF-Test with test-no. 4934.
RAVENOL Feinmechaniköl Art. 1350360				Universal fluid for bicycles, sewing machines, household and office applications, locks, tool, etc..

Product name	NLGI	Specification DIN 51 502	Description / Features
RAVENOL Mehrzweckfett OML Art. 1340101	2	K2K-30	Lithium saponified multipurpose grease for the lubrication of lightly loaded bearings and all machine parts. MB 267.0, ISO 6743: ISO-L-XCCEA2
RAVENOL Mehrzweckfett mit Graphit Art. 1340102	2	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: ISO-L-XCCFB2
RAVENOL Mehrzweckfett mit MoS2 Art. 1340103	2	KPF2K-30	Lithium saponified grease with molybdenum sulphide MoS2 for lubricating hard to reach places, and reciprocating machine parts for chassis lubrication. Salt water resistant. ISO 6743: ISO-L-XCCIB2
RAVENOL Super EP-Langzeitfett Art. 1340104	2	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: ISO-L-XCCFB2, LOVAT LOV-204
RAVENOL LKW FETT BLAU Art. 1340117	2	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: ISO-L-XCDIB2, VOLVO STD „Lubricating grease 97720“, MAN 283 Li-P2, MB 267.0
RAVENOL Wälzlagerfett LI-86 Art. 1340105	3	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: ISO-L-XCCFA3
RAVENOL Amber Getriebefließfett Art. 1340106	0	GP0K-30	Lithium saponified multipurpose grease for the lubrication of heavily loaded trucks and trailers, roller and ball bearings in the industrial sector at low speeds. ISO 6743: ISO-L-XCCFB0
RAVENOL KFZ-Fließfett ZSA Art. 1340107	00	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: ISO-L-XCCEB00, MAN 283 Li-P 00/000, MB 264.0, Willi Vogel
RAVENOL Kettenfließfett Art. 1340114	0	GP0K-30	Lithium saponified multipurpose grease for the lubrication of chains. ISO 6743: ISO-L-XCCFB0
RAVENOL Kugellager-Vaselinfett Art. 1340113	2	K2K-30	Lithium saponified multipurpose grease for the lubrication of ball bearings. ISO 6743: ISO-L-XCCEA2
RAVENOL Polfett-Säureschutzfett Art. 1340115	2	K2K-30	Lithium saponified multi-purpose grease to protect contacts and metal parts from aggressive acids. ISO 6743: ISO-L-XCCEA2
RAVENOL Hochleistungsfett mit MoS-2 Art. 1340108	2	KPF2K-30	Lithium saponified grease with high performance molybdenum sulphide for lubricating reciprocating machine parts and constant velocity joints. Salt water resistant. ISO 6743: ISO-L-XCCIB2
RAVENOL Kupferpaste Art. 1340109	1 - 2	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: ISO-L-XBGEB1-2, Operational temperature range -20°C to +1100°C
RAVENOL Extreme Pressure Grease EPG 3 Art. 1340127	3	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: ISO-L-XCCEB3
RAVENOL Hot Red Grease HRG 1 Art. 1340120	1	KP1P-35	Red colored 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: ISO-L-XCEEB1

Product name	NLGI	Specification DIN 51 502	Description / Features
RAVENOL Hot Red Grease HRG 2 Art. 1340121	2	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: ISO-L-XCEEB2
RAVENOL Hot Red Grease HRG 3 Art. 1340122	3	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: ISO-L-XBEEB3
RAVENOL Arctic Green Grease AGG 2 Art. 1340126	2	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: ISO-L-XECEB2
RAVENOL Arctic Tripoid Grease ATG 2 Art. 1340125	2	KPFE2K-60	Lithium saponified high performance grease with molybden disulphide 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: ISO-L-XECEB2
RAVENOL Marinefett Art. 1340128	2	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: ISO-L-XCCFB2



Product name	Application
RAVENOL TTC Traditional Technology Coolant Concentrate Art. 1410100	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 quality), ASTM D 3306 (USA), BS 6580 (GB), O Norm V 5123 (Austria) JIS K 2234 (Japan), CUNA NC 956-16 (Italy), AFNOR R15-601 (France), SAE J1034, UNE 25-361 (Spain), ASTM D 6210, ASTM D 4985, ASTM D 3306, ASTM D 1384, ASTM D 2570, ASTM D 2809, FORD WSS-M97B51-A, FIAT PARAFU 11, IVECO 18-1830, CHRYSLER MS 7170
RAVENOL TTC Traditional Technology Coolant Premix -40°C Art. 1410105	PROTECT C11 Coolant of yellow-green colour with frost and corrosion protection premixed to -40°C. VW TL 774-C (acc. to G11 quality), ASTM D 3306 (USA), BS 6580 (GB), O Norm V 5123 (Austria) JIS K 2234 (Japan), CUNA NC 956-16 (Italy), AFNOR R15-601 (France), SAE J1034, UNE 25-361 (Spain), ASTM D 6210, ASTM D 4985, ASTM D 3306, ASTM D 1384, ASTM D 2570, ASTM D 2809, FORD WSS-M97B51-A, FIAT 9.55523, FIAT PARAFU 11, IVECO 18-1830, CHRYSLER MS 7170
RAVENOL TTC Traditional Technology Coolant Hot Climate -15°C Art. 1410106	PROTECT C11 Coolant of yellow-green colour with frost and corrosion protection premixed to -15°C. VW TL 774-C (acc. to G11 quality), ASTM D 3306 (USA), BS 6580 (GB), O Norm V 5123 (Austria) JIS K 2234 (Japan), CUNA NC 956-16 (Italy), AFNOR R15-601 (France), SAE J1034, UNE 25-361 (Spain), ASTM D 6210, ASTM D 4985, ASTM D 3306, ASTM D 1384, ASTM D 2570, ASTM D 2809, FORD WSS-M97B51-A, FIAT 9.55523, FIAT PARAFU 11, IVECO 18-1830, CHRYSLER MS 7170
RAVENOL TTC Traditional Technology Coolant COLD CLIMATE -60°C Art. 1410140	PROTECT C11 Coolant of yellow-green colour with frost and corrosion protection premixed to -60°C. VW TL 774-C (acc. to G11 quality), ASTM D 3306 (USA), BS 6580 (GB), O Norm V 5123 (Austria) JIS K 2234 (Japan), CUNA NC 956-16 (Italy), AFNOR R15-601 (France), SAE J1034, UNE 25-361 (Spain), ASTM D 6210, ASTM D 4985, ASTM D 3306, ASTM D 1384, ASTM D 2570, ASTM D 2809, FORD WSS-M97B51-A, FIAT 9.55523, FIAT PARAFU 11, IVECO 18-1830, CHRYSLER MS 7170
RAVENOL OTC Organic Technology Coolant Concentrate Art. 1410110	PROTECT C12+ Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table. MAN 324 SNF, 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
RAVENOL OTC Organic Technology Coolant Premix -40°C Art. 1410112	PROTECT C12+ Coolant of lilac colour with frost and corrosion protection premixed to -40°C. MAN 324 SNF, 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.
RAVENOL OTC Organic Technology Coolant Hot Climate -15°C Art. 1410113	PROTECT C12+ Coolant of lilac colour with frost and corrosion protection premixed to -15°C. MAN 324 SNF, 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.



Product name	Application
RAVENOL HTC Hybrid Technology Coolant Concentrate Art. 1410120	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. 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, Honda OL999-9011, VW TL 774-C
RAVENOL HTC Hybrid Technology Coolant Premix -40°C Art. 1410121	PROTECT MB325.0 All year-round coolant of blue colour with frost and corrosion protection premixed to -40°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, Honda OL999-9011, VW TL 774-C
RAVENOL HTC Hybrid Technology Coolant Hot Climate -15°C Art. 1410119	PROTECT MB325.0 All year-round coolant of blue colour with frost and corrosion protection premixed to -15°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, Honda OL999-9011
RAVENOL HTC Hybrid Technology Coolant COLD CLIMATE -60°C Art. 1410142	PROTECT MB325.0 All year-round coolant of blue colour with frost and corrosion protection premixed to -60°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, Honda OL999-9011
RAVENOL HJC Hybrid Japanese Coolant Concentrate Art. 1410122	PROTECT FL22 Coolant of green colour. It provides highly effective frost and corrosion protection. Application according mixture table. Mazda FL22 Coolant, Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2, Nissan Anti-freeze Coolant (L250), Nissan KE90299934, KE90299944, 08CLAG01050 Honda E Coolant, Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010, Mazda 000077508E20, C122CL005A4X, C100CL005A4X
RAVENOL HJC Hybrid Japanese Coolant Premix -40°C Art. 1410123	PROTECT FL22 Coolant of green colour with frost and corrosion protection premixed to -40°C. Mazda FL22 Coolant, Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2, Nissan Anti-freeze Coolant (L250), Nissan KE90299934, KE90299944, 08CLAG01050 Honda E Coolant, Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010, Mazda 000077508E20, C122CL005A4X, C100CL005A4X
RAVENOL HJC Hybrid Japanese Coolant Hot Climate -15°C Art. 1410124	PROTECT FL22 Coolant of green colour with frost and corrosion protection premixed to -15°C. Mazda FL22 Coolant, Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2, Nissan Anti-freeze Coolant (L250), Nissan KE90299934, KE90299944, 08CLAG01050 Honda E Coolant, Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010, Mazda 000077508E20, C122CL005A4X, C100CL005A4X
RAVENOL HJC Hybrid Japanese Coolant COLD CLIMATE -60°C Art. 1410143	PROTECT FL22 Coolant of green colour with frost and corrosion protection premixed to -60°C. Mazda FL22 Coolant, Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2, Nissan Anti-freeze Coolant (L250), Nissan KE90299934, KE90299944, 08CLAG01050 Honda E Coolant, Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010, Mazda 000077508E20, C122CL005A4X, C100CL005A4X
RAVENOL LTC Lobrid Technology Coolant Concentrate Art. 1410125	PROTECT C12++ Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table. Free of borate, nitrite, amine, phosphate. VW TL 774-G (acc. to G12++ quality), MAN 324 Type Si-OAT, MB 325.5, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, VW G012A8GM1, G012A8GM8, G01A8GM9
RAVENOL LTC Lobrid Technology Coolant Premix -40°C Art. 1410126	PROTECT C12++ Coolant of lilac colour. It provides highly effective frost and corrosion protection premixed to -40°C. Free of borate, nitrite, amine, phosphate. VW TL 774-G (acc. to G12++ quality), MAN 324 Type Si-OAT, MB 325.5, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, VW G012A8GM1, G012A8GM8, G01A8GM9
RAVENOL LTC Lobrid Technology Coolant Hot Climate -15°C Art. 1410127	PROTECT C12++ Coolant of lilac colour. It provides highly effective frost and corrosion protection premixed to -15°C. Free of borate, nitrite, amine, phosphate. VW TL 774-G (acc. to G12++ quality), MAN 324 Type Si-OAT, MB 325.5, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, VW G012A8GM1, G012A8GM8, G01A8GM9
RAVENOL LTC Lobrid Technology Coolant Cold Climate -60°C Art. 1410144	PROTECT C12++ Coolant of lilac colour. It provides highly effective frost and corrosion protection premixed to -60°C. Free of borate, nitrite, amine, phosphate. VW TL 774-G (acc. to G12++ quality), MAN 324 Type Si-OAT, MB 325.5, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, VW G012A8GM1, G012A8GM8, G01A8GM9
RAVENOL LGC Lobrid Glycerin Coolant Concentrate Art. 1410128	PROTECT C13 Longlife coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table. VW TL 774-J (acc. to G13 quality), Volkswagen VW G013A8JM1, G013A8JM8, G013A8JM9, Audi, Skoda and Seat.

Product name	Application	
RAVENOL LGC Lobrid Glycerin Coolant Premix -40°C Art. 1410129	PROTECT C13	Longlife coolant of lilac colour with frost and corrosion protection premixed to -40°C. VW TL 774-J (acc. to G13 quality), Volkswagen VW G013A8JM1, G013A8JM8, G013A8JM9, Audi, Skoda and Seat.
RAVENOL LGC Lobrid Glycerin Coolant Hot Climate -15°C Art. 1410130	PROTECT C13	Longlife coolant of lilac colour with frost and corrosion protection premixed to -15°C. VW TL 774-J (acc. to G13 quality), Volkswagen VW G013A8JM1, G013A8JM8, G013A8JM9, Audi, Skoda and Seat.
RAVENOL HDT Heavy Duty Truck Cool. Concentrate Art. 1410115		Ethylene glycol coolant, based on low silicate technology in combination with nitrite and molybdate ASTM D6210, ASTM D3306, ASTM D4985, Caterpillar EC-1, Cummins CES 14603, Cummins SB 3666132, Detroit Diesel Corporation 7SE298, TMC RP329 Type A
RAVENOL HDT Heavy Duty Truck Cool. Premix -40°C Art. 1410116		Prediluted ethylene glycol coolant, based on low silicate technology in combination with nitrite and molybdate to -40°C ASTM D6210, ASTM D3306, ASTM D4985, Caterpillar EC-1, Cummins CES 14603, Cummins SB 3666132, Detroit Diesel Corporation 7SE298, TMC RP329 Type A
RAVENOL Food Grade Antifreeze FGA Art. 1410135		Propylene glycol based antifreeze. Protection up to -50°C. Used in foodstuffs industries, also HVAC (Heating, Ventilation, Air Conditioning) systems. NSF Nonfood Compounds Program Registration HT1: Registration-no.: 142387

WINTER PRODUCTS

Product name	Application
RAVENOL Scheibenfrostschutz Konzentrat Art. 1420100	Screen washer antifreeze concentrate. Appropriate for Polycarbonate windscreens, compatible with varnish, appropriate for the use in fan jets
RAVENOL Scheibenfrostschutz -30°C Art. 1420105	Screen washer antifreeze. Premixed. Appropriate for Polycarbonate windscreens, compatible with varnish, appropriate for the use in fan jets
RAVENOL Antifrost-Enteiser Art. 1420210	Antifrost de-icer.
RAVENOL Frostschutz for Druckluftbremsen Art. 1430208	Air brake system antifreeze.
RAVENOL Fließverbesserer Art. 1430220	Diesel fuel and fuel oil additive to prevent waxing and plugging at low temperatures. Use according to mixture table.
RAVENOL Türschloss-Enteiser Art. 1430203	Lock de-icer.
RAVENOL Schloßöl Art. 1430207	Effective maintenance oil for door locks.
RAVENOL Glycerin Stift Art. 1440206	For the care of rubber seals on vehicles of all types also used in household, trade and industry.

Product name	Application
RAVENOL Hochdruckreiniger Super Konzentrat Art. 1360006	Effective super concentrate for universal cleaning in 10% mixture. Use in pressure washers, according to manufacturer's recommendations. Kärcher, Lavor, Nilfisk Alto, Portotecnica, Kränzle, Delvir, Comet.
RAVENOL Hochdruckreiniger-Konzentrat Art. 1360003	Ready to use concentrate for use in pressure washers, according to manufacturer's recommendations. Also for cleaning vehicles and planes in the commercial sector. Kärcher, Lavor, Nilfisk Alto, Portotecnica, Kränzle, Delvir, Comet.
RAVENOL Kaltreiniger Art. 1360001	Removes all traces of oil, fats, fuel, clutch and brake abrasion. Cleaner for all kind of engines, mechanical parts etc..
RAVENOL Kaltreiniger lösemittelfrei Art. 1360002	Cleaner for all kind of engines, mechanical parts. It quickly penetrates grease, dirt, oil and grime and swiftly removes contaminants. Does not contain solvents.
RAVENOL Nitro-Universal-Verdünnung Art. 1360127	Application to dilute nitro, nitro-combination, chlorinated rubber, air-drying and oven-drying synthetic enamel, as well as air-and oven-drying cellulose lacquer.
RAVENOL Teerentferner Art. 1360004	Cleaner of tar, fats, light oxidation and stains from car lacquer.
RAVENOL Autoshampoo Art. 1360005	Universal concentrated liquid detergent excellent for thoroughly cleaning cars.
RAVENOL destilliertes Wasser Art. 1360010	Special water for antifreeze dilution and use in accumulators.
RAVENOL Glasklar Art. 1360025	Intensive glass cleaner, ideal for all glass and mirrored surfaces both inside and outside. It easily and quickly removes traffic film, dust, dirt, fingerprints, greasy marks and nicotine haze from windows and mirrors and leaves a sparkling, smear-free finish. Also suitable for use in the home on windows, mirrors and tiled surfaces.
RAVENOL Bremsenreiniger (flüssig and Spray) Art. 1360030	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 Motorport Teams - said to leave no white film after use.
RAVENOL Rostlöser MoS2 Spray Art. 1360009	Contains finely dispersed Molybdenum Disulphide 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.
RAVENOL Cockpit-Spray Art. 1360031	A highly effective silicon-free care spray for the cleaning and maintenance of plastic, artificial and natural leather interior surfaces of all types of motor vehicles.
RAVENOL Ketten-Spray Art. 1360032	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.
RAVENOL Silikon-Spray Art. 1360033	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.
RAVENOL Motorstarter-Spray Art. 1360034	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.
RAVENOL Zweirad-Reiniger Art. 1360058	Cleaner of metal and plastic surfaces of motorcycles, mopeds and bikes.
RAVENOL Insekten-Entferner Art. 1360059	A very high quality spray cleaner for the safe and easy removal of bug and insect contamination on glass, paint, chrome and plastic surfaces. Penetrating formula works even on dried insect residue without damaging paintwork - ideal for use as a pre-wash treatment.
RAVENOL Alu-Felgen-Reiniger intensiv Art. 1360060	A very high quality, phosphate-free alloy wheel cleaner formulated to remove the toughest deposits of brake dust, traffic film, greasy marks and road dirt from alloy wheels and rims, steel wheels, plastic wheel covers as well as engine components etc.
RAVENOL Velour-Reiniger Art. 1360066	High quality, phosphate-free car upholstery cleaner for the effective cleaning of all types of seat fabrics and covers, carpets and floor mats. It is also safe and suitable for use on all types of interior trim and all interior plastic surfaces in the car.
RAVENOL Leder-Reiniger Art. 1360067	A phosphate-free, high quality cleaning agent for all types of leather seats and interior trims in the car. Helps to maintain the suppleness and smoothness of the leather.
RAVENOL Bootsreiniger Art. 1360068	Special cleaner for yachts, boats and watercrafts. Highly effective in removing dirt, oil, grease, soot, nicotine, algae, tree sap, etc. without attacking the surface.

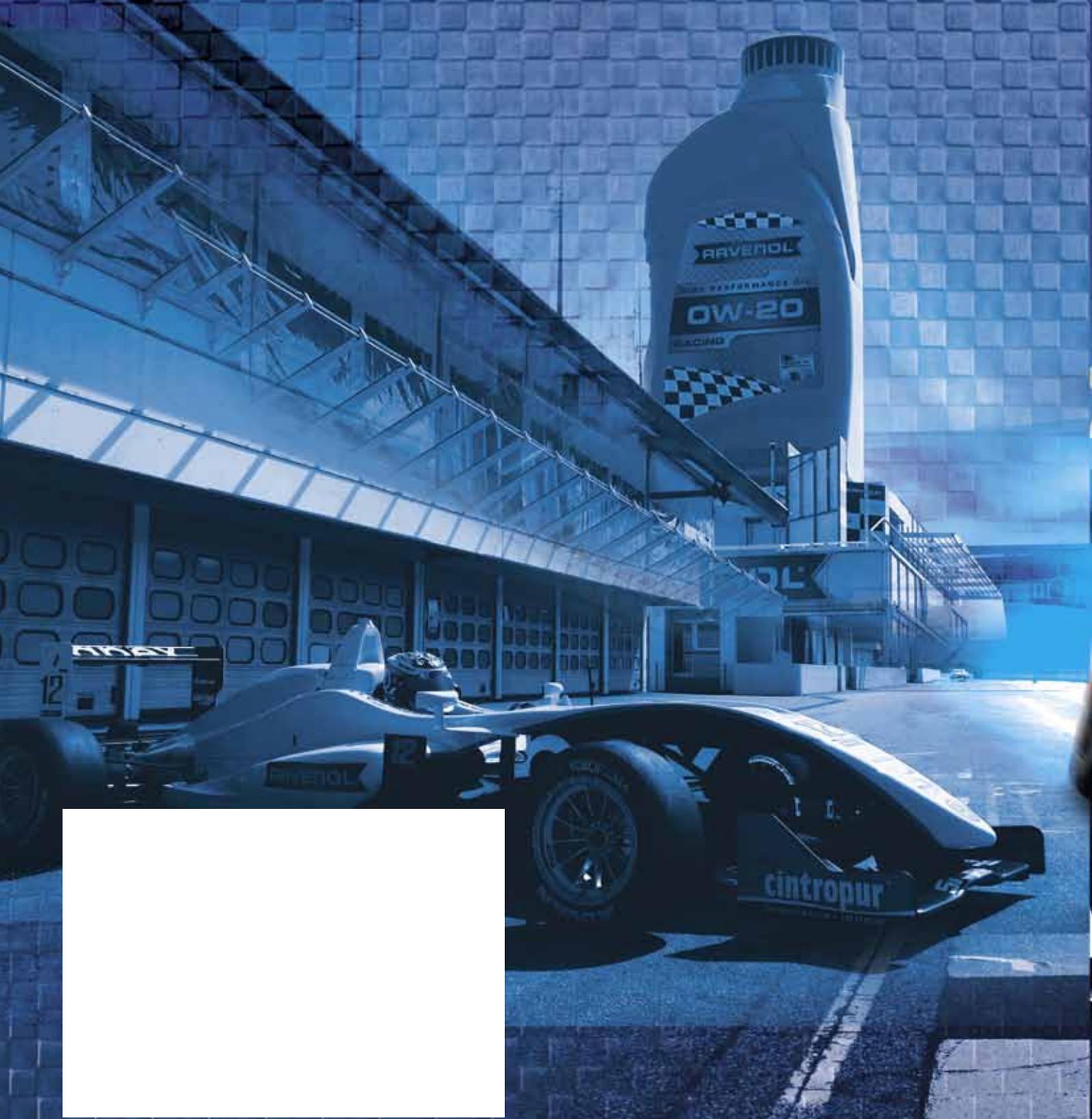
CAR CARE PRODUCTS

Product name	Application
RAVENOL Sommerscheiben-Reiniger Art. 1360080	Windshield washer for summer period.
RAVENOL Natur-Petroleum Art. 1350110	Fluid for kerosene/oil lamp.
RAVENOL Handreiniger-Paste Art. 1360600	Hand cleaner paste. Effective against heavily soiled hands.
RAVENOL Autopolitur Art. 1360750	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.
RAVENOL Ölfasspumpe Art. 1370190	Dispensing telescopic oil hand pump. Fits most drum sizes from 60L – 208L.
RAVENOL Fettpresse Art. 1370040	Hand operated lever cartridge pump for greases with armor tube.
RAVENOL Messkanne 2 L Art. 1370054	2Jug cap with measuring bar 2 L.

FUEL ADDITIVES

Product name	Application
RAVENOL Petrol Performance Optimizer Premium Art. 1390201	High performance additive, cleans and protects the petrol fuel system. TÜV certified reduction of NOx -emission.
RAVENOL Petrol System Cleaner Art. 1390202	Cleans and protects the injection system from corrosion.
RAVENOL Petrol Quality Stabilisator Art. 1390203	Improves starting behavior. Corrosion and aging protection during long standstill periods.
RAVENOL Octane Booster Art. 1390204	Higher performance by increasing octanenumber.
RAVENOL Diesel Performance Optimizer Premium Art. 1390241	High performance additive, cleans and protects the diesel fuel system. TÜV certified reduction of CO and HC-emission.
RAVENOL Cetane Booster Art. 1390242	Improve the ignition behavior, especially during cold starts.
RAVENOL Diesel System Cleaner Art. 1390243	Cleans the fuel injection system for low soot combustion.
RAVENOL Diesel Quality Stabilisator Art. 1390244	Optimized storage stability and antibacterial effect.
RAVENOL Professional Radiator Stop Leak Art. 1390301	seals small leaks, safe and fast.
RAVENOL Professional Radiator Cleaner Art. 1390302	Cleaning concentrate for the cooling and heating system.
RAVENOL Professional Engine Cleaner Art. 1390321	Motor cleaning concentrate against black sludge.





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