

**RAVENOL®**

# PRODUCT GUIDE



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the lifeblood of your car

<i>Why Ravenol?</i> .....	4
<i>Engine oils for passenger cars – USVO®</i> .....	6
<i>Engine oils for passenger cars – CleanSynto®</i> .....	8
<i>Engine oils/Special engine oils</i> .....	10
<i>High Mileage</i> .....	11
<i>Oldtimer Classic vintage car engine oils</i> .....	12
<i>Natural gas engine oils</i> .....	12
<i>Special engine oils</i> .....	13
<i>Rallye/Racing oils – USVO®</i> .....	13
<i>Commercial Vehicle engine oils</i> .....	15
<i>Agricultural machinery oils</i> .....	18
<i>Motorbikes and accessories</i> .....	20
<i>2-stroke and 4-stroke petrol engines</i> .....	23
<i>Marine oils</i> .....	25
<i>ATF Professional Line</i> .....	28
<i>ATF Standard</i> .....	31
<i>ATF transmission oils for commercial vehicles</i> .....	32
<i>Power steering and special hydraulic oils</i> .....	33
<i>Gear oil for manual gearboxes – Professional Line</i> .....	34
<i>Gear oils for manual gearboxes and drive axles</i> .....	34
<i>Hydraulic oils</i> .....	37
<i>Industrial oils, specialities</i> .....	39
<i>Lubricating greases</i> .....	42
<i>Additives and brake fluids</i> .....	44
<i>Accessories and workshop equipment</i> .....	46
<i>Care products and cleaners</i> .....	48
<i>Coolant + antifreeze</i> .....	50
<i>Winter chemicals</i> .....	53

# WHY RAVENOL?



## 10 GOOD REASONS TO CHOOSE RAVENOL

### 1. History and independence

RAVENOL has been an independent manufacturer of lubricants since 1946, meaning the company can decide exactly what goes into its products.

### 2. Portfolio

RAVENOL offers a wide range of lubricants and operating fluids for every vehicle. That's why RAVENOL was the first company worldwide to receive an American Petroleum Institute (API) licence for the viscosity SAE 0W-16.

### 3. Our plant

RAVENOL products are 100% MADE IN GERMANY, and are of the same high-quality, all over the world.

### 4. Highly specialised

We specialise in automotive lubricants. This ensures our products are highly competitive and of outstanding quality, as proven in various forms of motorsport.

### 5. Low environmental impact and environmentally-friendly products

Protecting the environment is one of our company's guiding principles, proven by our DIN EN ISO 14001:2009 certification.

### 6. Motorsport

RAVENOL partners a wide variety of racing series and teams, such as the Aston Martin Cognizant Formula One™ Team.

### 7. Manufacturer partnerships

RAVENOL provides technical support to various OEM motorsport programmes (Audi, BMW, etc.).

### 8. A quality product: PAO-based lubricants

Our use of superior PAO technology means that our lubricants deliver outstanding performance in a host of areas, including friction, cleaning and evaporation.

### 9. Forgery-proof, innovative packaging

Our packaging is designed to be easy for our customers to use, and is protected against forgery by various security measures.

### 10. Strong marketing

Our partnerships – including Ralf Schumacher, our attendance at all significant trade fairs and our unique range of merchandise mean we have a comprehensive range of options for promoting our brand.



# Engine oils for passenger cars - USVO®

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Extra Fuel Economy EFE</b> Art.-No.: 1111103	0W-16	SP (RC)		PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection. ILSAC GF-6B, Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine, Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005
<b>RAVENOL High Fuel Economy HFE</b> Art.-No.: 1111104	5W-16	SN		PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine, Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005
<b>RAVENOL Eco Synth ECS</b> Art.-No.: 1111102	0W-20	SN (RC)	C5	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. ILSAC GF-5, Resource Conserving, MB 229.71, Ford WSS-M2C947-A, GM 6094M, Honda/Acura HTO-6, Chrysler MS-6395, Mitsubishi, Nissan, Mazda, Suzuki, Toyota, Jaguar Land Rover STJLR.51.5122
<b>RAVENOL DFE</b> Art.-No.: 1111109	0W-20	SP (RC), SN Plus		PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbocharging like Turbo-GDI and direct injection. Helps to prevent LSPI (low speed pre-ignition). ILSAC GF-6A, GM dexos1™ Gen 2, Ford WSS-M2C947-A/-B1, Chrysler MS6395, MS-13340
<b>RAVENOL SSV Fuel Economy</b> Art.-No.: 1111145	0W-30	SL	A5/B5	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. VOLVO VCC 95200377, MB 229.6
<b>RAVENOL EFS Eco Fullsynth</b> Art.-No.: 1111105	0W-20	SP (RC), SN Plus	C6	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. ILSAC GF-5, BMW Longlife-17 FE+, VOLVO VCC RBS0-2AE 0W-20- Service Fill, MB 229.71, Chrysler MS-13340, Opel/Vauxhall (ex GM Europa) OV0401547 (ex Dexos2 gen 2), Honda, Nissan, Mazda, Suzuki, Toyota
<b>RAVENOL VSE</b> Art.-No.: 1111112	0W-20		C5	Fully synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. VW 508 00/509 00, Porsche C20
<b>RAVENOL FES</b> Art.-No.: 1111146	0W-30		C2	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Chrysler MS-13340; FIAT 9.55535-DS1/GS1; IVECO 18-1811 CLASSE SC1 LV; Jaguar Land Rover STJLR.03.5007; PSA B71 2290, B71 2312
<b>RAVENOL VSF</b> Art.-No.: 1111107	0W-30		C2	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Jaguar Land Rover STJLR.03.5007, Ford WSS-M2C950-A
<b>RAVENOL VSW</b> Art.-No.: 1111106	0W-30		C3	Fully synthetic low friction motor oil with USVO® technology for passenger car engines with and without turbo-charging and direct injection. VW 504 00 / 507 00, Chrysler MS-11106
<b>RAVENOL SSO</b> Art.-No.: 1111100	0W-30	SN / CF	A3/B4	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. VOLVO VCC 95200356 (Service Fill), MB 229.5, VW 502 00 / 503 01(Audi) / 505 00, BMW Longlife-01, BMW Longlife-98, GM-LL-A-025, GM-LL-B-025, Renault RN0700 / RN0710

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Arctic Low SAPS ALS</b> Art.-No.: 1111137	0W-30		C3	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for petrol and diesel engines of high performance vehicles and vans with Diesel Particulate Filter DPF and Three-Way Catalyst, which require HTHS >3,5 mPa*s. MB 229.51, BMW Longlife-04, Honda, Nissan, Mazda, Suzuki, Toyota, Chrysler MS-11106
<b>RAVENOL Super Synthetik Öl SSL</b> Art.-No.: 1111108	0W-40	SN/CF	A3/B4	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. MB 229.3, MB 229.5, VW 502 00 / 505 00, BMW Longlife-01, Porsche A40, Renault RN0700 / RN0710, Fiat 9.55535-M2, Chrysler MS-12633, Chrysler MS-10725, Ford WSS-M2C937-A
<b>RAVENOL DXG</b> Art.-No.: 1111124	5W-30	SP (RC)		PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection. ILSAC GF-6A, Resource Conserving, GM dexos1™ Gen 2, Chrysler MS-6395, MS-13340; Fiat 9.55535-CR1, Ford WSS-M2C946-A/-B1, Ford WSS-M2C929-A, Honda/Acura HTO-06
<b>RAVENOL FDS</b> Art.-No.: 1111139	5W-30	SL / CF	A5 / B5	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Renault RN0700, FORD WSS-M2C913-D (overlaps FORD WSS-M2C913-A/B/C), Fiat 9.55535-G1, JAGUAR LAND ROVER STJLR.03.5003, MB 229.6
<b>RAVENOL VMP</b> Art.-No.: 1111122	5W-30	SN	C3	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multi-Oil. BMW Longlife-04, VW 504 00 / 507 00 (for Europe and North America), MB 229.51, MB 229.31, Porsche C30 (Cayenne V6 and all PORSCHE hybrid cars), Fiat 9.55535-S1, Audi/Volkswagen G 052 195 M2, G 052 195 M4, G 052 195 M6, BMW 83 21 0 398 507, BMW/Mini 83 21 0 398 508, Mercedes Benz 000 989 89 01 10, Chrysler MS-11106, Audi Motorsport V31 748 026
<b>RAVENOL VSI</b> Art.-No.: 1111130	5W-40	SN/CF	A3/B4	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. MB 229.3, MB 226.5, VW 502 00 / 505 00, BMW Longlife-01, Porsche A40 (except for Cayenne V6), Opel GM-LL-B-025, Fiat 9.55535-H2, Chrysler MS-10850, MS-10896, RENAULT RN0700, RN0710, PSA B71 2296
<b>RAVENOL VollSynth Turbo VST</b> Art.-No.: 1111136	5W-40	SN / CF	A3 / B4	PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with special USVO® and proven CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimizes fuel consumption, excellent cold start characteristics. Extended oil change intervals according to manufacturers recommendation. MB 229.3, MB 226.5, Porsche A40, VW 502 00 / 505 00, BMW Longlife-01, Opel GM-LL-B-025, Renault RN0700 / RN0710, Chrysler MS-12991 (replaces MS-10896), MS-10850, MS-10725 (Fiat 9.55535-GH2 and Fiat 9.55535-Z2), PSA B71 2296

# Engine oils for passenger cars – CleanSynto®

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL FEH</b> Art.-No.: 1112115	0W-16	SP(RC)		Synthetic high performance motor oil with CleanSynto® technology and PAO content for passenger car petrol and diesel engines with and without turbo-charging and direct injection.  Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005
<b>RAVENOL EHS</b> Art.-No.: 1111113	0W-20	SP (RC), SN Plus	A1/B1	Synthetic, low-friction engine oil with CleanSynto® technology for car gasoline and diesel engines, with and without turbocharging and direct injection.  ILSAC GF-6A, MB 229.71, Ford WSS-M2C947-A, Jaguar Land Rover STJLR.51.5122, GM dexos1™ (First Generation), GM 6094M, Chrysler MS-6395, Mitsubishi, Mazda, Suzuki, Honda/Acura HTO-06, Toyota, Subaru, Nissan, Lexus, Infiniti, Cadillac, Chevrolet, Buick.
<b>RAVENOL Super Synthetic Hydrocrack SSH</b> Art.-No.: 1111138	0W-30	SM	A3 / B4	Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer.  MB 229.3, VW 502 00 / 505 00, BMW Longlife-98, Renault RN700/0710, VOLVO 95200356
<b>RAVENOL WIV II</b> Art.-No.: 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
<b>RAVENOL SHL</b> Art.-No.: 1111127	0W-40	SN / CF	A3 / B4	PAO (Polyalphaolefin) based, fully synthetic motoroil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.  BMW Longlife-01; Ford WSS-M2C937-A, MB 229.5, Renault RN0700/RN0710; Porsche A40; VW 502 00, VW 505 00
<b>RAVENOL VFE</b> Art.-No.: 1113111	5W-20	SP (RC), SN Plus	A5/B5	Synthetic low friction low SAPS motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Minimizes friction, wear and fuel consumption.  ILSAC GF-6A, Chrysler MS-6395; Fiat 9.55535-CR1; Ford WSS-M2C930-A, Ford WSS-M2C930-B (extended drain capability), Ford WSS-M2C925-A/B, Ford WSS-M2C948-B; Honda/Acura HTO-06; Hyundai; Jaguar Land Rover STJLR.03.5004; Kia; Mazda; Mitsubishi; Nissan; Suzuki; Toyota
<b>RAVENOL GFE</b> Art.-No.: 1111111	5W-20	SP (RC), SN Plus		Synthetic, low-friction engine oil with CleanSynto® technology for passenger car gasoline and diesel engines, with and without turbocharging and direct injection.  ILSAC GF-6A, GM dexos1™ Gen 2, Chrysler MS-13340, MS-6395; Ford WSS-M2C945-B1, Ford WSS-M2C960-A
<b>RAVENOL FO</b> Art.-No.: 1111115	5W-30	SL/CF	A5/B5	Engine oil suitable for fuel-saving year-round use in modern gasoline and diesel engines in cars, vans and similar vehicles from FORD, RENAULT, Toyota, Hyundai, KIA, Mazda, Honda, Nissan and Mitsubishi.  Fiat 9.55535-G1; FORD WSS-M2C913-D (overlaps 913-A/-B/-C); JAGUAR LAND ROVER STJLR.03.5003; MB 229.6; RENAULT RN0700
<b>RAVENOL SMO</b> Art.-No.: 1111151	5W-30	SN (RC)		Synthetic, low-friction engine oil with CleanSynto® technology for passenger car gasoline and diesel engines, with and without turbocharging and direct injection.  ILSAC GF-5, Ford WSS-M2C929-A, Ford WSS-M2C946-A, Chrysler MS-6395, GM 6094M, Fiat 9.55535-CR1, Nissan, Subaru, Toyota, Ford, Chrysler, Lexus, Mazda
<b>RAVENOL FLJ</b> Art.-No.: 1111143	5W-30		C1	Synthetic, low SAPS, low-viscosity motor oil with CleanSynto® technology that is suitable for petrol and diesel cars, with or without turbochargers and fuel injectors. It minimises friction, deterioration and fuel consumption, as well as possessing excellent cold-start characteristics and a lengthened oil change interval.  JAGUAR LAND ROVER STJLR.03.5005, FORD WSS-M2C934-A/-B, MAZDA, Mitsubishi
<b>RAVENOL FEL</b> Art.-No.: 1111123	5W-30	SN / CF	C2	Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >2,9 mPa*s(cP).  Chrysler MS-13340, JASO DL-1 (D049RAV111), PSA B71 2290, FIAT 9.55535-S1, HONDA i-DTEC / i-CTDi, MAZDA MZR-CD / MZ-CD/ CiTD, Mazda 183419 / 183418, TOYOTA 08880-83389 / 08880-83388, IVECO 18-1811 CLASSE SC1, SUBARU Boxer Diesel, SUZUKI

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL HDS Hydrocrack Diesel Specific</b> Art.-No.: 1111121	5W-30		C4	Synthetic low friction mid SAPS motor oil with CleanSynto® technology for passenger car diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. HTHS >3,5 mPa*s(cP).  Renault RN0720, MB 226.51
<b>RAVENOL HCL</b> Art.-No.: 1111118	5W-30	SL / CF	A3 / B4	Synthetic low friction motor oil with CleanSynto® technology for passenger car and van petrol and diesel engines with and without turbo-charging and direct injection.  MB 229.5, BMW Longlife-01, VW 502 00 / 505 00 / 501 01
<b>RAVENOL HPS</b> Art.-No.: 1111117	5W-30	SL / CF	A3 / B4	Semi-synthetic low friction motor oil with CleanSynto® technology with poly alpha olefin for passenger car petrol and diesel engines with and without turbo-charging and direct injection.  MB 229.3, BMW Longlife-98, VW 502 00 / 505 00
<b>RAVENOL HLS</b> Art.-No.: 1111119	5W-30	SN/CF	C3	Synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF). Extended oil change intervals.  MB 229.51, MB 229.52, MB 229.31, BMW Longlife-04, VW 502 00 / 505 00 / 505 01, GM dexos2™, Opel OV0401547 (only Diesel), Fiat 9.55535-S3, Chrysler MS-11106
<b>RAVENOL HDX</b> Art.-No.: 1111125	5W-30	SP (RC)		Synthetic, low-friction engine oil with CleanSynto® technology for car gasoline engines, with and without turbocharging and direct injection, such as Turbo-GDI and direct injection.  ILSAC GF-6A, GM dexos1™ Gen 2, Chrysler MS-6395, MS-13340, Fiat 9.55535-CR1, Ford WSS-M2C946-A/-B1, Ford WSS-M2C929-A, Honda/Acura HTO-06
<b>RAVENOL SMP</b> Art.-No.: 1111126	5W-30	SN	C3	Mid SAPS low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction.  BMW Longlife-04, MB 229.51, MB 229.31, VW 504 00 / 507 00 (for Europe and North America), Porsche C30, Fiat 9.55535-S1, Audi/Volkswagen G 052 195 M2, G 052 195 M4, G 052 195 M6, BMW 83 21 0 398 507, BMW/Mini 83 21 0 398 508, Mercedes Benz 000 989 89 01 10, Chrysler MS-11106
<b>RAVENOL VMS</b> Art.-No.: 1111144	5W-30	SN	C3	Fully synthetic low friction motor oil with CleanSynto® technology for Daimler passenger car petrol and diesel engines with and without turbo-charging and direct injection.  MB 229.51, MB 229.52, MB 229.31, Chrysler MS-11106
<b>RAVENOL RVN</b> Art.-No.: 1111114	5W-30		C3	Synthetic fuel-saving "Mid SAPS" engine oil based on the latest additive technology with special base oils. It was specially developed for petrol and diesel engines from Renault and Dacia.  Renault RN 17
<b>RAVENOL VDL</b> Art.-No.: 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, Fiat 9.55535-M2
<b>RAVENOL VMO</b> Art.-No.: 1111133	5W-40	SN / CF	C3	Synthetic MID SAPS low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines (including pump-injection technology, DPF and TWC). Extended oil change intervals. Meets EURO IV and EURO V standard for emission reduction. Multi-Oil.  MB 229.31, VW 502 00 / 505 00 / 505 01, BMW Longlife-04, GM dexos2™, Porsche A40, Ford WSS-M2C 917-A, Fiat 9.55535-S2, Fiat 9.55535-GH2
<b>RAVENOL HST</b> Art.-No.: 1111147	5W-40	SN / CF	A3 / B4	Motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection, formulated with synthetic base oils. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Extended oil change intervals according to manufacturer's recommendation.  BMW Longlife-01, RENAULT RN0700, RN0710, MB 229.3, MB 229.5, Porsche A40, VW 502 00 / 505 00, Opel GM-LL-B-025, Fiat 9.55535-Z2, Chrysler MS-12991 (replaces MS-10896), MS-10850, MS-10725 (Fiat 9.55535-GH2 and Fiat 9.55535-Z2), PSA B71 2296

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL HCS</b> Art.-No.: 1112105	5W-40	SN/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, MB 226.5, VW 502 00 / 505 00, BMW Longlife-01, Renault RN0700 / RN0710, Opel GM-LL-B-025, Porsche A40, Chrysler MS-10850, MS-10896, PSA B71 2296
<b>RAVENOL TSJ</b> Art.-No.: 1112106	10W-30	SP (RC)/CF		Semi-synthetic multigrade with CleanSynto® technology for year round use in gasoline and diesel engines under all operating conditions. Especially for modern Japanese and Asian cars.  ILSAC GF-6A, Resource Conserving, Toyota, Nissan, Honda, Mitsubishi, Mazda, Suzuki, Isuzu, Subaru, Daihatsu, KIA, Hyundai, SsangYong, Daewoo, Fiat 9.55535-CR1, Chrysler MS-6395
<b>RAVENOL TSI</b> Art.-No.: 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, MB 229.3
<b>RAVENOL DLO</b> Art.-No.: 1112111	10W-40	CF	A3/B4	Semi-synthetic low friction motor oil with CleanSynto® technology for passenger car diesel engines with and without turbo-charging and direct injection.  MB 229.1, BMW Special Oil, VW 500 00 / 501 01 / 505 00, Porsche
<b>RAVENOL LLO</b> Art.-No.: 1112112	10W-40	SN	A3/B4	Semi-synthetic low friction motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection.  MB 229.1, BMW Special Oil, VW 500 00 / 501 01 / 505 00

## Engine oils/Special engine oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Formel Standard</b> Art.-No.: 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.  CCMC G4; MB 227.1; MIL-L-46152 B, MIL-L-2104 D
<b>RAVENOL Turbo-C HD-C</b> Art.-No.: 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-229.1, MAN 271, MAN 3275-1, ZF TE-ML 07C, VW 501 01 / 505 00, Allison C4, Caterpillar TO-2, Volvo VDS, MACK EO-L, MTU Type 2
<b>RAVENOL Formel Super</b> Art.-No.: 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
<b>RAVENOL Formel Extra</b> Art.-No.: 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
<b>RAVENOL Super Turbo</b> Art.-No.: 1113126	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.  Cummins CES 20071; Deutz DQC II-10; Mack EO-M; MAN 271; MB 228.1, MB 229.1; MTU Type 1; Volvo VDS; VW 501 01/505 00
<b>RAVENOL Super HD</b> Art.-No.: 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
<b>RAVENOL Super HD</b> Art.-No.: 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	
<b>RAVENOL SVE Standard Viscosity Ester Oil</b> Art.-No.: 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
<b>RAVENOL SVS Standard Viscosity Synto Oil</b> Art.-No.: 1115100	5W-40	SN / CF	A3 / B4	Synthetic low friction multigrade engine oil for vehicles with petrol and diesel engines with or without turbocharging and high mileage.  MB 229.5, Porsche A40, VW 502 00 / 505 00, BMW Longlife-01, Opel GM-LL-B-025, Renault RN0700 / RN0710
<b>RAVENOL HVT High Viscosity Turbo Oil</b> Art.-No.: 1116102	5W-50	SN / CF	A3 / B4	Synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.  MB 229.1
<b>RAVENOL SVT Standard Viscosity Turbo Oil</b> Art.-No.: 1116103	10W-40	SM / 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 505 00/501 00, VW 502 00/500 00
<b>RAVENOL HVE High Viscosity Ester Oil</b> Art.-No.: 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
<b>RAVENOL HVS High Viscosity Synto Oil</b> Art.-No.: 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
<b>RAVENOL SVP Standard Viscosity Performance Oil</b> Art.-No.: 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
<b>RAVENOL HVP High Viscosity Performance Oil</b> Art.-No.: 1116104	15W-50	SN / CF	A3 / B4	Semi synthetic high performance low friction engine oil for vehicles with petrol and diesel engine with or without turbocharging and direct injection and high mileage. Minimization of friction, wear and fuel consumption.  MB 229.1

## Oldtimer Classic vintage car engine oils

Product name	Classifications			Description / Features
	SAE	API		
<b>RAVENOL Oldtimer Regular</b> Art.-No.: 1118103	30	SA	Classic 1	Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates. Engines from vehicles up to the construction year of 1930
<b>RAVENOL Oldtimer Regular</b> Art.-No.: 1118104	40	SA	Classic 1	Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates. Engines from vehicles up to the construction year of 1930
<b>RAVENOL Oldtimer Regular</b> Art.-No.: 1118105	50	SA	Classic 1	Mineral single grade motor oil for petrol engines without oil filter. Made from carefully selected, pure mineral raffinates. Engines from vehicles up to the construction year of 1930
<b>RAVENOL Oldtimer Classic</b> Art.-No.: 1118113	30	SB	Classic 1	Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives. Engines from vehicles up to the construction year of 1951
<b>RAVENOL Oldtimer Classic</b> Art.-No.: 1118114	40	SB	Classic 1	Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives. Engines from vehicles up to the construction year of 1951
<b>RAVENOL Oldtimer Classic</b> Art.-No.: 1118115	50	SB	Classic 1	Alloyed single grade engine oil for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives. Engines from vehicles up to the construction year of 1951
<b>RAVENOL Oldtimer 50-er</b> Art.-No.: 1119106	20W-50	SC	Classic 2	Alloyed multigrade engine oil designed for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives. Engines from vehicles up to the construction year of 1967
<b>RAVENOL Oldtimer 70-er</b> Art.-No.: 1119116	20W-50	SE	Classic 2	Alloyed multigrade engine oil designed for use in classic vehicles. Manufactured using carefully selected pure mineral raffinates and well chosen additives. Engines from vehicles up to the construction year of 1979

## Natural gas engine oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL VEG</b> Art.-No.: 1131100	5W-40	SM/SL/CF	A3/B4	Fully synthetic high alloyed motor oil for natural gas engines. Natural gas engines
<b>RAVENOL TEG Gasmotorenöl</b> Art.-No.: 1132100	10W-40	SL / CF	A3/B3	Semi synthetic high alloyed motor oil for natural gas engines. Natural gas engines
<b>RAVENOL MGS Gasmotorenöl</b> Art.-No.: 1133100	15W-40	CF-4 / SJ	A3 / B4, E2	High performance mineral multi grade motor oil used in natural gas engines. MB 226.9, TEDOM Group 1P (61-0-0281.2)
<b>RAVENOL Gasmotorenöl</b> Art.-No.: 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.

## Special engine oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Break-In Oil</b> Art.-No.: 1114105	30			Mineral break-in oil for start-up filling and the breaking-in of repaired or overhauled engines.
<b>RAVENOL Break-In Oil</b> Art.-No.: 1114110	20W-50			Mineral break-in oil for the initial filling and running-in of repaired or overhauled engines with special high pressure additives which are able to withstand very high pressure.

## Rallye/Racing oils – USVO®

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL RSP Racing Super Performance</b> Art.-No.: 1141089	5W-30		A3/B4	Modern fully synthetic fuel-saving multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition and motorsport engines operating in the most operating conditions. VW 502 00 / 505 00, MB 229.5, BMW Longlife-01, Renault RN 0700/ RN0710, Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher
<b>RAVENOL REP Racing Extra Performance</b> Art.-No.: 1141088	5W-30	SN	C3	Modern fully synthetic fuel-saving multigrade engine oil with USVO® Technology with a low sulfate ash content and a reduced HTHS viscosity. Specially formulated for daily use and for use in motorsport engines operating in the most operating conditions. MB 229.51, MB 229.52, MB 226.5, BMW Longlife-04, Renault RN 0700 / RN 0710, GM Dexos2™, Opel OVO401547 (only Diesel), Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher
<b>RAVENOL RUP Racing Ultra Performance</b> Art.-No.: 1141091	5W-40	SN	C3	Modern, fully synthetic, fuel-saving, low friction multigrade engine oil with low sulphated ash content and USVO® Technology for extremely sporty driving styles and for car racing. MB 229.51, MB 226.5, BMW Longlife-04, VW 511 00 / 502 00 / 505 00 / 505 01, Porsche C40, Renault RN 0700 / RN 0710, GM Dexos2™, Ford WSS-M2C917A, Racetrack Partnerships: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher
<b>RAVENOL RCS Racing Competition Synto</b> Art.-No.: 1141090	5W-40			High performance fully synthetic engine oil with USVO® Technology especially developed to maximise power release whilst giving ultimate protection in both race, rallye and Off-Road applications. Use as an upgrade where an SAE 5W-30 was originally specified by the vehicle manufacturer. Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport
<b>RAVENOL RRS Racing Rally Synto</b> Art.-No.: 1142100	5W-50			Fully synthetic multigrade engine with USVO® Technology oil based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition and motorsport engines operating in the most operating conditions. Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport
<b>RAVENOL RSE Racing Sport Ester</b> Art.-No.: 1141105	10W-50			Fully synthetic multigrade engine with USVO® Technology oil based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in competition engines using low friction technology but providing a better viscosity at high operating temperatures. Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL RSS Racing Sport Synto</b> Art.-No.: 1141100	10W-60			Fully synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Recommended for all Motorsport applications requiring a thicker grade of oil. Uses latest low friction technology to ensure maximum release of power.  Areas of application: ADAC GT Masters, FIA F3 EUROPEAN Championship Racetrack partnership: HOCKENHEIMRING, Nürburgring
<b>RAVENOL RHV Racing High Viscosity</b> Art.-No.: 1141101	20W-60			Fully synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Recommended for all Motorsport applications requiring a thicker grade of oil. Uses latest low friction technology to ensure maximum release of power.  Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport
<b>RAVENOL RFS Racing Formel Sport</b> Art.-No.: 1142105	15W-50			Synthetic multigrade engine oil with USVO® Technology based on the highest quality Ester and Poly-Alpha Olefin technology. Specially formulated for use in Motorsport applications providing maximum release of power with ultimate engine protection.  Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport
<b>RAVENOL Racing Gear Oil</b> Art.-No.: 1221111		GL-5+LS		Fully synthetic transmission oil with USVO® Technology, especially developed for and approved by Drexler transmissions in Germany. Ideal for highly stressed differentials. Reduces foaming, increases thermal stability and provides ultimate wear protection.  Drexler limited slip differential (Lamellen-Selbstsperrdifferential) in BMW Alpina B5, B6, GT3, GT4, M3, Z4 and World Touring Car Championship (WTCC), Chrysler Viper GT3, Corvette Z06, Fiat Abarth, Lamborghini Murcielago, Mercedes AMG C 63, CLS 63, E 63, SL 63, SLS
<b>RAVENOL RHP Racing High Performance Gear</b> Art.-No.: 1145100	75W-90			Fully synthetic transmission oil with USVO® Technology especially developed for racing cars. It provides outstanding wear protection and thermal stability. Especially suitable for front wheel drive applications.  Racetrack partnership: Nürburgring Tested, Hockenheim Premium Partner, recommendation of Ralf Schumacher, Opel Motorsport
<b>RAVENOL Racing Kart 2T</b> Art.-No.: 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
<b>RAVENOL Racing Castor 2T</b> Art.-No.: 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
<b>RAVENOL Racing Brake Fluid R 325+</b> Art.-No.: 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.  Exceeds the requirements: FMVSS 116 DOT 4, DOT 5.1, SAE J1703, SAE J1704

# Commercial Vehicle engine oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL FET Fuel Efficiency Truck</b> Art.-No.: 1121105	5W-30	SN/ FA-4		Synthetic Fuel Economy Longlife multigrade engine oil with an HTHS viscosity between 2.9 cP and 3.2 cP, designed specifically for the latest generation of turbo diesel commercial vehicle engines.  MB 228.61, Cummins CES 20087; DDC 93K223
<b>RAVENOL Super Performance Truck</b> Art.-No.: 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, Cummins CES 20076, -77, -78, Renault RXD, IVECO, MACK EO-M Plus, Voith Retarder B, Global DHD-1, JASO DH-1, SCANIA LDF-3
<b>RAVENOL Super Synthetic Truck</b> Art.-No.: 1121101	5W-30	CI-4	E4, E6, E7	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 Typ 3.1, Volvo VDS-3, Renault RLD-2, RXD, MAN M3277, MB 226.9, JASO DH-2, Scania LDF, DAF HP-2, Deutz DQC-III-10LA, Cummins CES 20076 / 20077, Mack EO-N
<b>RAVENOL Ultra Synthetik Truck</b> Art.-No.: 1121102	5W-30	CJ-4	E4, E6, E7, E9	Synthetic fuel economy "Low SAPS" year-round multigrade diesel engine oil based on the latest additive technology combined with very special base oils. Suitable for use in heavy diesel engines even under the toughest operation conditions and all the year round.  Caterpillar ECF-3, Cummins CES20081, Detroit Diesel 93K218, Deutz DQC IV-10 LA, MAN M 3271-1, MAN 3297-1, MAN M 3477, MAN M 3575, MAN M 3677, MAN 3691, MB 228.51, MB 228.31, MTU Type 3.1, MTU Type 2.1, Volvo VDS-4, Renault VI RLD-3, Mack EO-O Premium Plus, Scania LowAsh, Scania LDF-4, JASO DH-2, Volvo CNG, DAF, Voith Retarder B
<b>RAVENOL NDT Nord Duty Truck</b> Art.-No.: 1122103	5W-40	CJ-4/SM	E7, E9	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 Corporation (DDC) DFS93K218, DFS93K15, DFS93K14, Chrysler MS-10902, Ford WSS-M2C171-E
<b>RAVENOL UDT Ultra Duty Truck</b> Art.-No.: 1121110	10W-30	CK-4, CJ-4	E6, E7, E9	Synthetic fuel-saving "low SAPS" truck engine oil formulated using the latest additive technology with very particular base oils. Specially developed for diesel engines subjected to the toughest conditions in all seasons.  Volvo VDS-4.5, Renault VI RLD-3, Mack EOS-4.5, MB 228.51, MTU Typ 3.1, Cummins CES 20081, Deutz DQC IV-10 LA, Detroit Diesel DFS93K218, Caterpillar ECF-3
<b>RAVENOL SDT Super Duty Truck</b> Art.-No.: 1121120	10W-40	CK-4, CJ-4	E6, E7, E9	Synthetic fuel-saving "low SAPS" truck engine oil formulated using the latest additive technology with very particular base oils. Specially developed for diesel engines subjected to the toughest conditions in all seasons.  MB 228.51, Volvo VDS-4.5, Renault VI RLD-3, Mack EOS-4.5, Cummins CES 20086; Caterpillar ECF-3; DAF Extended Drain; Detroit Diesel DDC 93K222; Deutz DQC IV-18 LA; IVECO 18-1804 Classe TLS E9; JASO DH-2; MAN M 3477; MTU Type 3.1; Scania Low Ash
<b>RAVENOL Expert SHPD</b> Art.-No.: 1121104	5W-30	CI-4, SL	E3, E5, E7, A3/B4	High-alloyed SHPD low-friction engine oil for commercial vehicles with synthetic base oils.  Caterpillar ECF-2, ECF-1a; Cummins CES 200071, -72, -76, -78; DDC 93K215; DEUTZ DQC III-10; Global DHD-1; MACK EO-N, MACK EO-M Plus; MAN M 3275-1; MB 228.1, MB 228.3, MB 228.5, MB 229.1, MB 235.28; MTU Type 2; Renault VI RLD-2; Volvo VDS 3
<b>RAVENOL Expert SHPD</b> Art.-No.: 1122105	10W-40	CI-4	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 20071, -72, -76, -77, -78, DEUTZ DQC III-10, MAN M 3275-1, MACK EOM-Plus, MACK EO-N, MTU Type 2, Renault VI RLD-2, TEDOM 258-3 (61-0-0258), Volvo VDS 3, YaMZ, SCANIA LDF, Global DHD-1, VW 500 00, 505 00, Caterpillar TO-2, Allison C4, Voith Retarder B, IVECO, DAF



Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Performance Truck</b> Art.-No.: 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 M 3277, 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-N, Cummins CES 20076, -77, -78, JASO DH-1 (JASO M355:2000), Voith Retarder B, Global DHD-1, SCANIA LDF-3
<b>RAVENOL EURO IV Truck</b> Art.-No.: 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 M 3477, MTU Type 3, MTU Type 3.1, Renault RXD, Volvo VDS-3, Mack EO-N, Renault VI RLD-2, Scania LDF, Deutz DQC IV-10 LA, DAF HP-2, MAN M3277 (CRF, Abgasrückführung)
<b>RAVENOL EURO VI Truck</b> Art.-No.: 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 IV-10 LA, MB 228.51, Cummins CES 20076/77, MAN M 3477, M 3271-1, MTU Type 3.1 (all MTU engines, except series 1000, 1100, 1300, 1500, 1800, 8000, 956, 1163 TB32 Genset und S 60), MTU Type 3, VOLVO VDS-3, Renault RLD-2, RXD, MACK EO-N, Scania LDF-2, Chrysler MS-10902, Ford WSS-M2C171-E
<b>RAVENOL Low Emission Truck</b> Art.-No.: 1122111	10W-30	CI-4, CJ-4, CK-4	E6,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. JASO DH-2, MB 228.51, MAN M3677, Volvo VDS-4 (STD 417-0001), Renault Trucks RLD-3, MTU Type 3.1, Deutz DQC IV-10 LA, Cummins CES 20081, Mack EO-O PP (Premium Plus), Detroit Diesel DDC 93K218, Caterpillar ECF-3
<b>RAVENOL Low Emission Truck</b> Art.-No.: 1122109	10W-40	CJ-4, CI-4	E4, E6, E7, 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. Caterpillar ECF-3; Cummins CES 20081; DAF; Detroit Diesel DDC 93K218; Deutz DQC IV-10 LA; JASO DH-2; MAN M 3575, M 3477, M 3271-1, Mack EO-O Premium Plus; MB 228.31, MB 235.28, MB 228.51, MTU Type 2.1, MTU Type 3.1; Renault VI RLD-3; Scania Low Ash; VOITH Klasse B; Volvo VDS-4.
<b>RAVENOL Low Emission Truck</b> Art.-No.: 1123100	15W-40	CJ-4 / SM	E7, E9	Semi Synthetic multi grade truck engine oil with highest performance. For use in EURO 5 engines with exhaust systems (EGR, SCR, DPF, DPR), EURO 3 and EURO 4 engines. Enhanced performance and cleanness of the engines. MB 228.31, Volvo VDS-4, Mack EO-O Premium Plus, Renault VI RLD 3, DFS 93K214, DFS 93K218, Cummins CES 20081, Ford WSS-M2C171-E, TATRA TDS 30/12, MAN M3575, MAN M 3477, MAN M 3271-1, MTU Type 2.1, 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, Chrysler MS-10902, John Deer JDQ-78X Oxidations Test.
<b>RAVENOL EDT</b> Art.-No.: 1122112	10W-30	FA-4		Synthetic Fuel Economy Longlife multigrade engine oil with an HTHS viscosity of between 2.9 cP and 3.2 cP which has been specially developed for the latest generation of turbodiesel commercial vehicle engines. Cummins CES 20078, Mack EO-O PP (Premium Plus)
<b>RAVENOL Turbo-Plus SHPD</b> Art.-No.: 1123105	10W-30	CI-4/SL	E3, E5, 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. Caterpillar ECF-2, TO-2; Cummins CES 20071, -72, -76, -77, -78; DAF; DDC 93K215; Deutz DQC III-10; Global DHD-1; JASO DH-1; Mack EO-N; MAN M 3275-1; MB 228.3; MTU Type 2, MTU Type 3; Renault RLD, Renault VI RLD-2; Volvo VDS 3; YAMZ
<b>RAVENOL Turbo-Plus SHPD</b> Art.-No.: 1123115	15W-40	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 20076, -77, -78, Renault RLD/RLD-2, ZF TE-ML 07C, Scania LDF-2, TEDOM 258-3 (61-0-0258), JASO DH-1 (D049RAV123), Deutz DQC III-10, Global DHD-1, Mack EO-M, EO-M Plus, IVECO, Allison C4, Caterpillar TO-2, John Deere JDQ 78A.

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Turbo-Plus SHPD</b> Art.-No.: 1123120	20W-50	CI-4, SL/CF	E7, A3 / B4	Mineral SHPD-motor oil for mixed fleet of diesel and gasoline engines also with turbochargers. Specially designed for extended oil change intervals. Allison C4; Caterpillar ECF-1a, ECF-2; Cummins CES 20071, -72, -76, -77, -78; DDC 93K215; Deutz DQC III-10; Global DHD-1; JASO DH-1; Mack EO-M Plus; MAN M 3275-1; MB 228.3, MB 229.1; MTU Type 2, Type 3; Renault VI RLD, RLD-2; Volvo VDS-3
<b>RAVENOL Formel Diesel Super</b> Art.-No.: 1123205	10W-30	CF-4 / CF	E2, B4	High-alloyed HD motor oil formulated with selected additives for diesel engines with or without turbo charger. Extended oil change intervals. MB 228.1, VW 505 00, MAN 271, Volvo VDS, MTU Type 2, ZF TE-ML 07C, Cat. TO-2, Allison C4
<b>RAVENOL Formel Diesel Super</b> Art.-No.: 1123215	15W-40	CF-4	E2, B4	High performance multi grade motor oil for diesel engines with or without turbo charger. Extended oil change intervals. MB 229.1, MAN 271, ZF TE-ML 07C, VW 505 00, Allison C4, Cat. TO-2, VOLVO VDS, MACK EO-L, Renault RD-2/RLD, TEDOM 258-2 (61-0-0258)
<b>RAVENOL Super Low Emission Truck</b> Art.-No.: 1123216	15W-40	CK-4/SN	E7, E9	Mineral multi grade truck engine oil with highest performance. All-year engine oil for diesel engines with or without turbo charging, for trucks, busses and work machines. Enhanced performance and cleanness of the engines. Caterpillar ECF-3, Cummins CES 20081/20086, Detroit Diesel DDC93K218, DDC93K222, Deutz DQC-III 10 LA, IVECO; JASO DH-2; MAN M3275, M3575, MB 228.31, MTU Type 2.1, Volvo VDS-4.5, Mack EOS-4.5, Renault VI RLD-3
<b>RAVENOL Formel Diesel Super</b> Art.-No.: 1123220	20W-50	CH-4	E2, B4	High-alloyed HD engine oil formulated with selected additives for diesel engines with or without turbo charger. Allison C4; Cat. TO-2; MAN 271; MB 228.1; Volvo VDS; VW 505 00
<b>RAVENOL Spezial Diesel</b> Art.-No.: 1113310 Art.-No.: 1113311	10W-30 15W-40	CD	B2	Multigrade motor oil for diesel engines with and without turbo charging. All year lubrication at different conditions. CCMC G4, MB 227.1, MIL-L-46152 B, MIL-L-2104 D
<b>RAVENOL Super Truck</b> Art.-No.: 1123710	10W	CF-4	E2, B4	High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger. MB 228.0, MAN 270, MTU Type 1, VOITH DIWA
<b>RAVENOL Super Truck</b> Art.-No.: 1123715	20W-20	CF-4	E2, B4	High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger. MB 228.0
<b>RAVENOL Super Truck</b> Art.-No.: 1123720	30	CF-4/SG	E2, B4	High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger. MB 228.0, MAN 270, ZF TE-ML 02C, 02H, 03A, 03C, 04B, 07F, MTU Type 1, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104 D
<b>RAVENOL Super Truck</b> Art.-No.: 1123725	40	CF-4/SG	E2, B4	High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger. MB 228.0, MB 235.12, MAN 270, ZF TE-ML 02H, 04A, 04B, MTU Type 1, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104D
<b>RAVENOL Super Truck</b> Art.-No.: 1123726	50	CF-4/SG	E2, B4	High-alloyed HD engine oil with synthetic additives for diesel engines of trucks with or without turbo charger. MB 228.0, ZF TE-ML 04B, 04E, Allison C-4, Caterpillar TO-2, Deutz DQC I-02, MIL-L-2104D

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Standard Truck</b> Art.-No.: 1123610	10W	CF/SF	E2, B4	Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants. MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, MTU Type 1, Voith Retarder A, Voith DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D
<b>RAVENOL Standard Truck</b> Art.-No.: 1123620	30	CF/SF		Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants. MTU Type 1 (DDC BR 2000 u. 4000), MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, Voith Retarder A, Voith DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D
<b>RAVENOL Standard Truck</b> Art.-No.: 1123625	40	CF/SF		Universal mineral monograde motor oil used in diesel engines with and without turbo charging in trucks. Also suitable for stationary plants. MTU Type 1 (DDC BR 2000 u. 4000), MB 227.0, Caterpillar TO-2, Allison C4, MIL-L2104 E, MAN 270, VOITH Retarder A, VOITH DIWA, ZF TE-ML 02C, 03B, 04B, 06A, 07D

## Agricultural machinery oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL STOU</b> Art.-No.: 1310108	5W-30	GL-4, CG-4/SF	E2	Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems. MB 227.1, MB 228.1, MB 228.3, John Deere J27, Massey Ferguson M 1139 / M 1144 / M 1145, Allison C4, Caterpillar TO-2, MIL-L-2104D, ZF TE ML 06A, 06B, 06C, 06D, 07B, Ford ESN-M2C 159B
<b>RAVENOL STOU</b> Art.-No.: 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. Engine Oil: SAE 10W-30, API CG-4/SF, ACEA E3, MB 227.1, MB 228.1, MB 228.3, New Holland / Ford ESN-M2C-134 B/C/D, -159B/86B, MIL-L-2104 D Transmission Oil: SAE 80W, API GL-4, Allison C-4, Caterpillar TO-2, ZF TE-ML 03A, 05K, 06B, 07B, 07D, MAN 270 Hydraulic Oil: HLP ISO VG 68 Special Tractor Oil: John Deere J 27, Massey-Ferguson M1135, M1139, M1144 Compressor Oil: Holman Compair Kompressor, Atlas Copco Kompressor
<b>RAVENOL STOU</b> Art.-No.: 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 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 1, Case MS 1118 / 1209 / 1206, FIAT AF 87, International Harvester B6, Holman Compair Compressor, Atlas Copco Compressor
<b>RAVENOL STOU</b> Art.-No.: 1310111	10W-40	CG-4, GL-4, HVLP ISO VG 68-100	E3	Special oil type STOU for agricultural machines, excavators and construction equipment. For use in engines, transmissions and hydraulic systems. Engine oil: MB 227.1, MB 228.1, MB 228.3, New Holland NH 410B, Ford ESN-M2C-134 B/C/D, Ford ESN-M2C-159B/C, MIL-L-2104 D; gear oil: SAE 80W, 85W, 80W-90, 85W-90, API GL-4, Allison C-4, Caterpillar TO-2, ZF TE-ML 06A, 06B, 06C, 06D, 07B, MAN 271; special tractor oil: John Deere J20C/D, J27, Massey-Ferguson M1139, M1144, M1145, CASE IH-MS 1209, FENDT KDM 41.2011, MAT 3525; compressor oil: Holman Compair Compressor; Atlas Copco Compressor

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL STOU</b> Art.-No.: 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
<b>RAVENOL STOU</b> Art.-No.: 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
<b>RAVENOL CATOEL TO-4</b> Art.-No.: 1310610 Art.-No.: 1310613 Art.-No.: 1310614	10W 30 40	CF, MT-1		Specific oil for construction vehicles and tractor vehicles. Caterpillar TO-4, TO-4M, Allison C4, Komatsu KES 07.868.1 (2002), Eaton Fuller, ZF TE-ML 03C, 07F (ZF001852)
<b>RAVENOL CATOEL TO-4</b> Art.-No.: 1310615 Art.-No.: 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
<b>RAVENOL UTTO BIO</b> Art.-No.: 1310720		GL-4		Biodegradable universal hydraulic and transmission oil for use in hydraulic and transmission systems of agriculture and road construction equipment. Case MS1209/MS1207, CNH MAT 3525/MAT3505, FNHA-2-C201.00, Ford M2C134-D, John Deere J20C, Massey Ferguson M1145/M1143 Biodegradability: CEC-L-33-T83 <90% (3 Wks.)
<b>RAVENOL Getriebeöl UTTO</b> Art.-No.: 1310700		GL-4		Mineral gearoil for use in hydraulic and transmission systems of tractors. ZF TE-ML 03E, 05F, 06K, 17E, 21F, HVLP (DIN 51524 Part 3), John Deere J 20 C, J21A, Ford ESN-M2C 86B/C/134 D, Massey Ferguson M 1141/M 1143/M 1145, Case IH-MS 1206/1207, Caterpillar TO-2, SDFG OT-1891A, Allison C-4, Volvo B6M WB 101 (BM Valmet, AWB Achsen), Renault 180596, MAT 3505/3506/3525, NH 410B, White Farm (AGCO) Q- 1802/-182616, Deutz-Allis AC Power Fluid 821 XL
<b>RAVENOL Getriebeöl UTTO Arctic</b> Art.-No.: 1310711	75W	GL-4, ISO VG 32		Multi-purpose transmission and hydraulic oil based on HC and PAO base oils for modern tractors and other agriculture equipment. J. I. Case (International harvesters and risers - JIC-145/MS-1210, JIC-185/MS-1204, JIC-185/MS-1205, MS-1206 MS-1207, JIC 143/144 B6 (International Harvester), SEMS 17001 (risers) John Deere - J20C, J20D, (J20A, J20B), J14B/C, J21A, Deutz-Allis, Allis-Chalmers(Agco) -Part No. 9003088, 9003089, 9003090, 9003091, New Holland, Ford New Holland (Fiat), Versatile - CNH MAT 3526, CNH MAT 3525, ESN-M2C41-B, ESN-M2C48-B, M2C48-C/C2/C3, ESN-M2C53-A, ESN-M2C86-B, ESN-M2C134-A,B,C, ESN-M2C134D, Versatile, Hesston, Hesston - Fiat - AF-87, Massey - Ferguson, Minneapolis Moline, New Idea, Oliver (Agco) - M1110, M1127A/B, M1129-A, M1135, M1141, Q-1705, Q-1766, Q-1722, Q-1802, Q-1826 Caterpillar - TO2, Kubota - UDT Fluid, ZF TE-ML 3E, 3F, 5F, 6K

# Motorbikes and accessories

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL Racing 4-T Motobike</b> Art.-No.: 1171106	10W-40	SN	JASO MA2	Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Racing 4-T Motobike</b> Art.-No.: 1171107	10W-50	SN	JASO MA2	Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Racing 4-T Motobike</b> Art.-No.: 1171108	10W-60	SN	JASO MA2	Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Racing 4-T Motobike</b> Art.-No.: 1171109	15W-50	SN	JASO MA2	Fully synthetic 4-stroke motorcycle engine oil that was specially developed for racing use with USVO® & CleanSynto® technology. It is designed 100% on a PAO and ester basis. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1171101	5W-30	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1171102	5W-40	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1172111	10W-30	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1172112	10W-40	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1171103	10W-50	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1171104	10W-60	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Mineral</b> Art.-No.: 1173121	15W-40	SN	JASO MA2	High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL Motobike 4-T Ester</b> Art.-No.: 1172113	15W-50	SN	JASO MA2	High performance synthetic motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
<b>RAVENOL Motobike 4-T Mineral</b> Art.-No.: 1173123	20W-40	SN	JASO MA2	High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Yamaha, Kawasaki, Honda, Aprilia, BMW, Suzuki, Ducati, Triumph, Moto-Guzzi
<b>RAVENOL Motobike 4-T Mineral</b> Art.-No.: 1173122	20W-50	SN	JASO MA2	High performance motor oil with excellent additives to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches. JASO MA2 T903:2016; Aprilia; BMW; Ducati; Honda; Kawasaki; Moto-Guzzi; Suzuki; Triumph; Yamaha; etc.
<b>RAVENOL Motobike 4-T Standard</b> Art.-No.: 1173133	20W-50	SL	JASO MA2	High performance mineral motor oil to meet the demanding requirements of motorcycle engines with wet clutches or oil lubricated clutches.
<b>RAVENOL Motobike V-Twin Fullsynth.</b> Art.-No.: 1171105	20W-50		JASO MA2	High performance 3 in 1 fully synthetic lubricant for motor, gear and crankshaft. Specifically designed for use in cruiser and chopper motorcycles. BMW Cruiser Motorcycles, Harley Davidson 62600005, 62600031, Honda 08C35-A251M01, 08C35-A251L01, Indian Motorcycles, Victory Motorcycles, Yamalube LUB20W50AP04, LUB20W50AP12, Triumph Motorcycles, Moto Guzzi Motorcycles, Suzuki V-Twin Motor Oil
<b>RAVENOL Motobike V-Twin Mineral</b> Art.-No.: 1173105	20W-50	SL	JASO MA2	High performance 3 in 1 mineral lubricant for motor, gear and crankshaft. Specifically designed for use in cruiser and chopper motorcycles. BMW Cruiser Motorcycles, Harley Davidson 62600005, 62600031, Honda 08C35-A251M01, 08C35-A251L01, Indian Motorcycles, Victory Motorcycles, Yamalube LUB20W50AP04, LUB20W50AP12, Triumph Motorcycles, Moto Guzzi Motorcycles, Suzuki V-Twin Motor Oil
<b>RAVENOL Motogear</b> Art.-No.: 1250050	75W-90	GL-4		Fully synthetic low friction gear oil with especially formulation for extremely stressed manual transmission and rear axles.
<b>RAVENOL Motogear</b> Art.-No.: 1250055	80W-90	GL-4		Transmission oil based on mineral oil with effective additives for manual transmissions.
<b>RAVENOL Motogear</b> Art.-No.: 1250070	80W-90	GL-5		Hypoid transmission oil based on mineral oil with special high pressure additions for manual transmissions.
<b>RAVENOL Fork Oil Ultra Light 2,5W, Light 5W</b> Art.-No.: 1182101 Art.-No.: 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. Aprilia, BMW, Ducati, Honda, Kawasaki, Moto-Guzzi, Suzuki, Triumph, Yamaha
<b>RAVENOL Fork Oil Medium 10W, Heavy 15W, Very Heavy 20W</b> Art.-No.: 1182104 Art.-No.: 1182105 Art.-No.: 1182106	10W 15W 20W			Mineral oil based fork oil for all forks of road and off-road motorcycles. Aprilia, BMW, Ducati, Honda, Kawasaki, Moto-Guzzi, Suzuki, Triumph, Yamaha

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL Motogear</b> Art.-No.: 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
<b>RAVENOL Motogear</b> Art.-No.: 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.
<b>RAVENOL QUAD 4T</b> Art.-No.: 1152160	10W-40	SL	JASO MA2	Semi-synthetic motoroil for Quads and ATV. 4-stroke quad engines in KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI, HONDA motorbikes, amongst others.
<b>RAVENOL Quadrogear</b> Art.-No.: 1250200				Synthetic special axle oil developed for Quads and ATV with an integrated wet brake. KAWASAKI, YAMAHA, BOMBARDIER, SUZUKI
<b>RAVENOL Motobike System Cleaner Shot</b> Art.-No.: 1390401				Fuel additive with high levels of cleaning and anti-corrosion additives for all motorcycle gasoline injection engines, which increases the performance of the engine.
<b>RAVENOL Motobike Engine Cleaner Shot</b> Art.-No.: 1390402				Highly effective cleaning concentrate for the oil circuit for efficient cleaning of all motorcycle engines (with and without catalytic converter)
<b>RAVENOL Air Filter Oil Spray</b> Art.-No.: 1360301				Spray oil for all foam material air filters of off-road and street motorcycles and Quads.
<b>RAVENOL Air Filter Clean Spray</b> Art.-No.: 1360302				Degreases and cleans all foam material air filters of off-road and street motorcycles and Quads thoroughly.
<b>RAVENOL Kettenöl Off Road Spray</b> Art.-No.: 1360303				Especially for chain lubrication of off-road motorcycles and Quads.
<b>RAVENOL Kettenöl Reiniger Spray</b> Art.-No.: 1360304				Degreases and cleans motorcycle chains as well as the chains of other vehicles thoroughly.
<b>RAVENOL Carb Reiniger Spray</b> Art.-No.: 1360305				Cleans carburetors in the suction and throttle valve area thoroughly.
<b>RAVENOL Ketten-Spray</b> Art.-No.: 1360032				Lubricating spray for chains.

## 2-stroke and 4-stroke petrol engines

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL MPS Motocross Powersynth 2T</b> Art.-No.: 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
<b>RAVENOL Selfmix 2T</b> Art.-No.: 1153100		TB, ISO-L-EGB	NMMA TC-W	Mineral motor oil for self-mixing systems and separate lubrication. Recommended mixture: 1:50. Husqvarna, Stihl, Partner, McCulloch, Jonsered, Oleo-Mac, Poulan, Maruyama, Dolmar, Oregon, Makita, Ryobi, Hitachi
<b>RAVENOL 2-Takt-Öl NOT SELFMIX</b> Art.-No.: 1153101		SA		Mineral non-miscible motor oil for 2-stroke engines. For use at low and high temperatures, guarantees functional lubrication.
<b>RAVENOL Scooter Fullsynth. 2-Taktöl</b> Art.-No.: 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
<b>RAVENOL Scooter Partsynth. 2-Taktöl</b> Art.-No.: 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, Aprilia, Honda, Kymco, Peugeot, Piaggio, Suzuki, Vespa, Yamaha
<b>RAVENOL Scooter Mineral 2-Taktöl</b> Art.-No.: 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
<b>RAVENOL Scooter 4-Takt Fullsynth.</b> Art.-No.: 1151155		SN		Fully synthetic high performance green colored motor oil on the Basis of PAO for 4-stroke small engines. Yamaha, Honda, Aprilia, Suzuki, Kawasaki, Peugeot, Arctic Cat, Bombardier, Argo, Dinli, Polaris.

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL Scooter 4-Takt Partsynth.</b> Art.-No.: 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, Piaggio
<b>RAVENOL Snowmobiles Fullsynth. 2-Takt</b> Art.-No.: 1151310		TD, ISO-L-EGD	JASO FD	Fully synthetic motor oil for snowmobiles. Recommended mixture: max. 1:100. Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Rotax 253
<b>RAVENOL Snowmobiles Partsynth. 2-Takt</b> Art.-No.: 1152310		TC, ISO-L-EGC	JASO FC	Semi-synthetic motor oil for snowmobiles. Recommended mixture: max. 1:75. Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris
<b>RAVENOL Snowmobiles Mineral 2-Takt</b> Art.-No.: 1153310		TB, ISO-L-EGD	JASO FB	Mineral motor oil for snowmobiles. Recommended mixture: max. 1:50. Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris
<b>RAVENOL Snowmobiles 4-Takt Fullsynth.</b> Art.-No.: 1151311		SN		Fully synthetic 4-stroke motor oil, especially for 4-stroke snowmobiles. Yamaha, Suzuki, Bombardier, Kawasaki, Arctic Cat, Ski-Doo, Polaris
<b>RAVENOL Schneefräse 4-Takt</b> Art.-No.: 1151106	0W-30	SL	A3 / B4	Fully synthetic 4-stroke motor oil, especially for 4-stroke snow blowers. Ariens, Briggs&Stratton, Caiman, Canadiana, Craftsman, CubCadet, Honda, Husqvarna, McCulloch, Murray, MTD, Partner, Snapper, Stiga, Swisher, TORO, White Outdoor, Yard-Man.
<b>RAVENOL Schneefräse 4-Takt</b> Art.-No.: 1151105	5W-30	SM / SL	A5 / B5	High performance fully synthetic 4-stroke motor oil, especially for 4-stroke snowblowers. Ariens, Briggs&Stratton, Caiman, Canadiana, Craftsman, CubCadet, Honda, Husqvarna, McCulloch, Murray, MTD, Partner, Snapper, Stiga, Swisher, TORO, White Outdoor, Yard-Man.
<b>RAVENOL 4-Takt Gardenoil</b> Art.-No.: 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

# Marine oils

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Marine Performance</b> Art.-No.: 1163101	15W-40	CK-4/ CJ-4/ SN	E7, E9	All-year SHPD engine oil for marine diesel engines with or without turbo charging with high wear protection. Volvo VDS-4.5; Mack EOS-4.5; Renault VI RLD-3, Caterpillar; Detroit Diesel; IVECO; MAN; Mercruiser; MTU; NANNI Diesel; PERKINS; SKL; Steyr; SULZER; VETUS DEUTZ; YANMAR, Scania LDF
<b>RAVENOL Marineoil Petrol</b> Art.-No.: 1162200 Art.-No.: 1163200 Art.-No.: 1163210	10W-40 15W-40 20W-50	SL		Motor oil for use in marine gasoline engines. VOLVO Penta AB, Mercruiser, Yanmar, Kohler
<b>RAVENOL Marineoil Petrol</b> Art.-No.: 1163220	25W-40		NMMA FC-W (CAT)	Modern mineral based high additive treated marine engine oil. It is suitable for inboard and outboard marine gasoline engines. NMMA FC-W (CAT)® FC-43514X, NMMA FC-W, Yamaha, Honda, Suzuki, YANMAR, Mercruiser, VOLVO Penta AB, Kohler, Johnson, Mercury, Evinrude
<b>RAVENOL Marineoil Petrol Synthetic</b> Art.-No.: 1162115	25W-40	SL	A3/B4	Synthetic motor oil for use in marine gasoline engines. VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, YANMAR, Detroit Diesel, SULZER, SKL
<b>RAVENOL Marineoil Diesel SHPD</b> Art.-No.: 1162100	10W-40	CI-4/CF	E7/ B4	Engine oil for use in marine diesel engines. VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL, Scania LDF-2
<b>RAVENOL Marineoil Diesel SHPD</b> Art.-No.: 1163100	15W-40	CI-4/CF	E7/ B4	Engine oil for use in marine diesel engines. Volvo VDS-3, VETUS DEUTZ, Steyr, MTU, VOLVO PENTA, Caterpillar, IVECO, MAN, Mercruiser, PERKINS, NANNI Diesel, Yanmar, Detroit Diesel, SULZER, SKL
<b>RAVENOL Marineoil Diesel SHPD</b> Art.-No.: 1163110	20W-50	CI-4	E7/ B4	Engine oil for use in marine diesel engines. Steyr, Mercruiser, Yanmar
<b>RAVENOL Marineoil Diesel SHPD</b> Art.-No.: 1163215	25W-40	CF		Modern mineral based high additive treated marine engine oil with special additives. It is suitable for inboard marine diesel engines VETUS DEUTZ, MTU, Steyr, Caterpillar, MAN, PERKINS, NANNI Diesel, Detroit Diesel, Mercruiser, IVECO, SKL, SULZER, VOLVO PENTA
<b>RAVENOL Marineoil Diesel SHPD Synthetic</b> Art.-No.: 1162105	25W-40	CI-4/CF	E7, B4	Fully synthetic engine oil with unconventional and HC basic oils, synthetic components and modern additives for the use in marine diesel engines. VETUS DEUTZ, MTU, Steyr, Caterpillar, MAN, PERKINS, NANNI Diesel, Detroit Diesel, Mercruiser, IVECO, SKL, SULZER, VOLVO PENTA, Yanmar
<b>RAVENOL VPG</b> Art.-No.: 1231101	75W-90	GL-5		Fully synthetic axle drive oil based on the latest fully synthetic components for marine vehicles. Suitable for use in heavy-duty axle drives from VOLVO Penta and marine transmissions from IPS and Aquamatic. For DPH/DPR Gearboxes of VOLVO Penta and for IPS and Aquamatic transmissino (DPR, DPR-A, DPR-B, DPS-A, DPX, DPX-A, DPX-C, DPX-R, DPX-S, DPX-S1, SX-A, SX-C, SX-C1AC, SX-C1, SX-C2, SX-C3AC, SX-C3, SX-C2AC, SX-CLT1, SX-CLT2, SX-M, SX-M1, SX-MAC, SX-MACLT, SX-MDA, SX-MDB, SX-MHP, SX-MDC, SX-MHP1, SX-MHPH, SX-MLT, SX-S, SX-RT2, SX-RT1, SX-R2, SX-R1, SX-R, SX-MTD3, SX-MTD, SX-CT, SX-CLT, SX-CT1, SX-CT2, SX-SLT, SX-ST, DPH-A, DPH-B, DPH-AP, DPH-AS, DPH-BP, DPH-BS, IPS-A, IPS-B, IPS-C, D11A-D (IPS), D4-300D-F, D4-300A-F, D3-200A-F, D3-140A-F, D6-435D-E, D3-2201-F, D4-260A-F, D3-2001-F, D4-225A-F, D6-310D-E, D3-220A-F, D3-170A-F, D13B-G MP, D6-280A-E, D4-260D-F, D6-310A-E, D6-330A-E, D6-370D-E, D3-1701-F, D6-370A-E, D6-330D-E, D13-800IPS EVC-E2-B, D13-900IPS EVC-E2-B)
<b>RAVENOL Marine Gear Fullsynth. MGF</b> Art.-No.: 1231100	75W-90			Fully synthetic high performance transmission oil which can be preferably used in the marine sector for lubricating boat and ship transmissions (in- and outboard) for stern- and reverse gear units as well as for Z-drives when a synthetic GL-5/ GL-4 transmission oil is required. ZF TE-ML 12B/16F/17B, Honda, Suzuki, OMC, VOLVO PENTA, Mercruiser, YANMAR, Yamaha

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Marine Gear Lube</b> Art.-No.: 1233100		GL-5		Gear oil for use in marine transmissions. OMC, Volvo Penta, Mercruiser, Yanmar
<b>RAVENOL Marine PowerTrim &amp; Steering Fluid</b> Art.-No.: 1234100				Hydraulic oil for lubricating hydraulics in marine equipment. OMC, Volvo Penta, Mercruiser, Yanmar
<b>RAVENOL Outboardoel 2T Fullsynth.</b> Art.-No.: 1151200		TD	NMMA TC-W3	Fully synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:100. NMMA TC-W3® RL-90001G, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva
<b>RAVENOL Outboardoel 2T Partsynth.</b> Art.-No.: 1152200		TC	NMMA TC-W3	Semi-synthetic specifically formulated Outboard 2-stroke motor oil with special esters and Polyisobutylene (PIB). Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:75. NMMA TC-W3® RL-29018F, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva
<b>RAVENOL Outboardoel 2T Mineral</b> Art.-No.: 1153200		TB	NMMA TC-W3	Mineral specifically formulated Outboard 2-stroke motor oil. Perfect lubrication and wear protection due to special Low-Ash additives. Suitable for separate-lubrication and self-mixing systems. Recommended mixture: max. 1:50. NMMA TC-W3® RL-90000G, Yamaha, Suzuki, Tohatsu, Johnson, Evinrude, Mercury and Selva
<b>RAVENOL Outboardoel 4T</b> Art.-No.: 1153203	10W-30	SM	NMMA FC-W (CAT)	Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT). NMMA FC-W (CAT)® FC-51534X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan
<b>RAVENOL Outboardoel 4T</b> Art.-No.: 1153204	10W-40	SM	NMMA FC-W (CAT)	Semi-synthetic specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT). NMMA FC-W (CAT)® FC-11298X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan
<b>RAVENOL Outboardoel 4T</b> Art.-No.: 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
<b>RAVENOL Outboardoel 4T</b> Art.-No.: 1153207	25W-40	SM	NMMA FC-W (CAT)	Mineral specifically formulated Outboard 4-stroke motor oil acc. to NMMA FC-W (CAT). NMMA FC-W (CAT)® FC-43517X, NMMA FC-W, Mercury Verado, Yamaha, Suzuki, Honda, Johnson/Evinrude, Tohatsu/Nissan
<b>RAVENOL Watercraft Fullsynth. 2-Takt</b> Art.-No.: 1151210		TD, ISO-L-EGD	JASO FD, NMMA TC-W3	Fully synthetic motor oil for outboard engines in water vehicles. Recommended mixture: max. 1:100. NMMA TC-W3® RL-29019G

Product name	Classifications			Description / Features
	SAE	API	ACEA	
<b>RAVENOL Watercraft Teilsynth. 2-Takt</b> Art.-No.: 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
<b>RAVENOL Watercraft Mineral 2-Takt</b> Art.-No.: 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
<b>RAVENOL Watercraft 4-Takt</b> Art.-No.: 1151211		SG	NMMA FC-W	Fully synthetic motor oil for 4-stroke outboard engines in fresh water cooled 4-stroke water vehicle engines.
<b>RAVENOL MARINE 830 TBN8</b> Art.-No.: 1163001 Art.-No.: 1163002	30 40	CC	MIL-L-2104A	Mineral diesel engine oil used in slowly running crosshead diesel engines and as engine oil in easy loaded engines of the coasting and inland navigation. DEF 2101D
<b>RAVENOL MARINE 1230 TBN12, 1240 TBN12, 1630 TBN16, 1640 TBN16</b> Art.-No.: 1163010 Art.-No.: 1163011 Art.-No.: 1163020 Art.-No.: 1163021	30 40 30 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
<b>RAVENOL Outboard Castor 2T</b> Art.-No.: 1159100				Special two-stroke oil based on tried and tested castor oil plant technology, refined with ester synthetic additives for use in motor racing. It can be used in engines from 54 HP (125 cc) to 240 HP (700 cc). VRP Racing Engines, Motorboat outboard motors exclusively for racing, 0-125 cc, 0-175 cc, 0-250 cc (2 cylinder Boxer engines 2 stroke), 0-350 cc (2 cylinders, 3 cylinders or 4 cylinder Boxer engines 2 stroke), 0-500 cc and 0-700 cc (4 cylinder Boxer engines 2 stroke)

# ATF Professional Line

Product name	Description / Features
<b>RAVENOL ATF 8HP Fluid</b> Art.-No.: 1211124	Synthetic ATF for 8HP-series transmission of ZF and 6-speed automatic transmissions of 6HP-series for AUDI Q7. BMW 83222305397 (bis 02.2013 83222152426), BMW 83222289720, ATF L 12108, VW / AUDI G 060 162 A1/ A2/ A6, VW G 055 162, ZF S671 090 312, ZF TE-ML 11 9HP48, Land Rover LR023288 and LR023289, Mopar 68218925GA (previously: 68157995AB), Fiat 9.55550-AV5, Acura 08200-9016A, Honda 08200-9017, Honda ATF Type 3.1
<b>RAVENOL ATF 9HP Fluid</b> Art.-No.: 1211149	Fully synthetic ATF on the basis of high quality hydrocrack oils and PAO, for the latest Generation of all 9 stroke automatic transmissions of ZF. ATF L 12108; Acura 08200-9016 A, Acura ATF Type 3.0, BMW 83222305397 (bis 02.2013 83222152426), BMW 83222289720; Fiat 9.55550-AV5; Honda 08200-9017, ATF Type 3.1, Land Rover LR023288, LR023289; Mopar 68218925AA, 68157995AB; VW/AUDI G 060 162 A1/A2/A6; VW G 055 162; ZF S671 090 312, ZF TE-ML 11 9HP48
<b>RAVENOL ATF M 6-Serie</b> Art.-No.: 1212105	Synthetic ATF for 5-speed Mercedes-Benz automatic transmission. MB 236.10 (A 001 989 21 03), Chrysler 52107891AA
<b>RAVENOL ATF M 9-Serie</b> Art.-No.: 1211108	Synthetic ATF for 7-speed Mercedes-Benz automatic transmission (NAG2VSport). MB 236.14 (A 001 989 68 03 10), MB 236.12, MB 236.10
<b>RAVENOL ATF M 9-FE Serie</b> Art.-No.: 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
<b>RAVENOL ATF M 9-G Serie</b> Art.-No.: 1211139	Synthetic ATF for the latest 9-speed Mercedes-Benz automatic transmissions (9G-tronic) for Mercedes-Benz cars. MB 236.17, A 002 989 06 03, ATF D971
<b>RAVENOL ATF 5 / 4 HP Fluid</b> Art.-No.: 1212104	Synthetic Universal ATF (automatic transmission fluid) for ZF automatic transmissions (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
<b>RAVENOL ATF 6HP Fluid</b> Art.-No.: 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
<b>RAVENOL ATF Mercon LV Fluid</b> Art.-No.: 1211137	Synthetic ATF Automatic Transmission Fluid, which was specially developed for automatic transmissions of Ford. MERCON® LV (Licence number MLV161101), Ford 1776431, Ford ATF C-ML5, Ford XT-10-QLVC, Ford WSS-M2C938-A, Motorcraft XT-10 DLV, Motorcraft XT-10-QLV
<b>RAVENOL DTF-1</b> Art.-No.: 1211128	Fully synthetic gear lubricant for the latest generation of electronically controlled active transfer box. Land Rover IYK500010, ATF TF-0753, ATF TF-0870, MB 239.41 Torque-on-Demand (TOD) Transfer case in Type 167 GLE, Type 463 G-Class, Type 470 X-Class, Type 471 with engine OM642; Mopar 68049954AA for Borg Warner 44-40 transfer Box; Nissan 999MP-TF0870P, KLD22-00001EU for Transfer Case ATX90A Porsche 000.043.301.36 Cayenne 9PA/9PA1 955 / 957 (from 2002 to 2010) Transfer Case PL72 ATC (NV325), 000.043.305.63 Porsche Macan 95B (from 2014) and Cayenne 92A / 958 (Petrol-Motors from 2010 to 2018) Transfer Case Hang-On PL72 ATC; VW G052515A2 (former: G055515A2) for Transfer Case OAD and 0BV for Touareg, Q7; VW G052536A2 for Transfer Case OBU for Touareg, Amarok and Audi Q7; VW G052533A2 for Transfer Case 0C7 for Amarok; BMW DTF-1 83222409710, 83222397244, 83220306816 for Transfer Case xDrive: ATC 300, ATC350, ATC400, ATC450, ATC500, ATC700 Genesis (USA) G90 3.3 T-GDI und 5.0 GDI AWD (ab Bj. 2016); KIA (EU) Stinger 2.2 CRDI und 3.3 T-GDI AWD (ab Bj. 2017); Mopar 68049954AA for BorgWarner 44-40 transfer case
<b>RAVENOL Transfer Fluid BW 44</b> Art.-No.: 1211147	RAVENOL Transfer Fluid BW 44 is a PAO (Poly-alpha-olefin) based, fully synthetic ATF (Automatic Transmission Fluid) with a special additive and inhibition, which ensure the proper functioning of the active transfer case. BorgWarner 44-40 und BW 44-44, BorgWarner BW 44-46 44-47 44-48 und 44-45 bis 2016; MB 236.13, Mercedes A001 989 23 03; Mercedes active transfer case A2202800700, A2112801000, A2112800900, A2032800700 für 4Matik S-Klasse W220, E-Klasse W211, C-Klasse W203; Mopar 68049954AC / 68049954AA, Chrysler Verteilgetriebe 68214750AC, 68214751AB, 68214751AC für Chrysler 300C LX, Dodge Charger LX/LD, Dodge Magnum LX

Product name	Description / Features
<b>RAVENOL T-IV-Fluid</b> Art.-No.: 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 (USA only), 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 transmissions SU0 and SU1, TOYOTA JWS 3309, 08886-81016, 00279-000T4, 08886-01705, VOLVO 1161540, VW / AUDI G 055 025 A2, NISSAN 999MP-MTK00P for RE5F22A (Aisin AW55-50SN Nissan Altima, Maxima, Quest, Sentra), Matic K, Mazda K020-W0-049, Suzuki 99000-22800-001, ESSO JWS3317, Land Rover LR022460, Fiat 9.55550-AV1
<b>RAVENOL ATF T-WS Lifetime</b> Art.-No.: 1211106	Synthetic ATF with a special formulation for long-life filling. Aisin Warner AW-1, Aisin Warner Automatic Gearbox from 2008; Aisin TF-80SC (AWF21, AF40-6, AM6, AW6A-EL), TF-81SC (AF21 and AWF-21), TG-81SC (AWF8F35, A881F and GA8F22AW) for MINI Cooper F54, MINI Countryman F60, BMW X1 F48, BMW X2 F39, BMW 2 Gran Tourer F46; BMW 83 22 2 355 599, BMW ATF 6; Chrysler 05189978AA, Chrysler 05189979AA, Chrysler Mopar AS68RC; Fiat 9.55550-AV2; ISUZU 2-90531-200-0, 2-90531-201-0; Land Rover LR022460; Toyota 08886-02305/00289-ATFWS/08886-81210, Toyota / Lexus JWS3324; VOLVO 31256774, VOLVO 31256775, VOLVO 31256776; VW/AUDI transmission 0C8 (Touareg 2011-, Q7 2010-), VW G055540A2
<b>RAVENOL ATF FZ</b> Art.-No.: 1211130	Special fully synthetic ATF (Automatic-Transmission-Fluid) for the Mazda 6-gear transmission FW6A-EL and FW6AX-EL with SKYACTIV technology. Mazda ATF FZ, Mazda 0000-FZ-113E-01, Mazda 8300-77-246
<b>RAVENOL ATF DSIH 6</b> Art.-No.: 1211133	Special synthetic ATF Fluid based on PAO for 6-Speed automatic transmission of Drivetrain Systems International Holdings (DSIH) for SsangYong KYRON, ACTYON, ACTYON SPORTS, Geely GC7, GX7, SC7 and EC8. SsangYong 0578-244021, Caltex 1712, ATF 3292, DSI M11 6-Speed Korando, DSI M78 6-Speed Kyron, Actyon
<b>RAVENOL ATF Type J2 / S Fluid</b> Art.-No.: 1211115	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
<b>RAVENOL ATF JF405E</b> Art.-No.: 1211118	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
<b>RAVENOL ATF JF506E</b> Art.-No.: 1211119	Synthetic ATF for JATCO 5-speed automatic transmission JF506E for Ford, LandRover, VW, Jaguar, Seat. FORD WSS-M2C922-A1 for Durashift 5F31J, Land Rover LRN402, STC53016, STC50531, Jaguar C2S 12120, ATF Type K17, Type 3100 PL085, N402, VW G052990A2 for 09A and 09B 5-Speed Tiptronic
<b>RAVENOL ATF Matic Type D</b> Art.-No.: 1211121	Synthetic ATF for 4- and 5-speed automatic transmissions of Nissan. Nissan KLE2200002, Nissan KLE2000004, KLE22-00020, Nissan 999MP-AA100P, Nissan KE908-99931
<b>RAVENOL ATF MM SP-III Fluid</b> Art.-No.: 1212103	Universal ATF (Automatic-Transmission-Fluid) for MITSUBISHI, HYUNDAI und KIA-automatic transmissions. Can replace SP and SP-II Fluids. Mitsubishi 4024610, 4024401, ACH1ZC1X05, MZ320159, MZ320160, MZ320162, MZ320216, ATF SP-III, ATF SP-3, Hyundai 04500-00100, 04500-00400, 04500-00A00, 00232-19012
<b>RAVENOL ATF RED-1</b> Art.-No.: 1211117	Synthetic ATF for special 5-speed automatic transmissions of KIA and Hyundai. ATF RED-1, KIA UMO40-CH020, 04500-00140, Hyundai 04500-00140
<b>RAVENOL ATF SP-IV Fluid</b> Art.-No.: 1211107	Synthetic ATF for 6-speed Hyundai automatic transmission from year 2009. 6-speed Hyundai automatic transmissions: Hyundai 00232-19045, 04500-00115, Hyunda 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

Product name	Description / Features
<b>RAVENOL ATF SP-IV RR</b> Art.-No.: 1211138	Special ATF for Hyundai 8-speed transmissions. Hyundai 00232-19052, Hyundai 04500-00117, Hyundai EQUUS, Hyundai GENESIS, Hyundai GENESIS Coupe, KIA MOHAVE, KIA QUORIS
<b>RAVENOL ATF MM-PA Fluid</b> Art.-No.: 1211126	Synthetic ATF for automatic transmissions of Mitsubishi V5AWF. Mitsubishi V5AWF, Mitsubishi 4030401, Mitsubishi DIA QUEEN ATF-PA
<b>RAVENOL ATF Type Z1 Fluid</b> Art.-No.: 1211109	Synthetic ATF for all 4-and 5-speed automatic transmissions of Honda. Honda 08266-99904, Honda 08266-99907, Honda 08200-9005
<b>RAVENOL DW-1 Fluid</b> Art.-No.: 1211125	Synthetic ATF for automatic transmissions of Honda. Honda 08200-9008, 08200-9009, Honda 08266-99964, 08266-99967, 08266-99901
<b>RAVENOL DPS Fluid</b> Art.-No.: 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
<b>RAVENOL SU5 ATF Fluid</b> Art.-No.: 1211122	Synthetic ATF for 5-speed automatic transmissions of Subaru. Subaru 4ATF, 5ATF, ATF HP, Subaru K0415-Y0700, Subaru SOA868V9240, SOA868V9241, SOA427V1500
<b>RAVENOL ATF BTR 95LE</b> Art.-No.: 1211116	Synthetic ATF for transmissions of BTR Engineering Australia for SsangYong, FORD, Maserati, Mitsubishi and others. M74LE, M85LE, M91LE, M95LE, ATF Type TQ95
<b>RAVENOL CVT HCF-2 Fluid</b> Art.-No.: 1211142	Synthetic CVT (Continuously Variable Transmission) fluid designed specifically for second-generation CVT transmissions, based on high quality base oils and Polyalphaolefin (PAO). Honda CVT Gen2, Honda 08200-HCF2, Honda 08260-99964, 08260-99967, 08200-HCF2, 08269-99904HE, 08269-99905HE, Honda Accord IX CR 2013-2017, Accord X 2017, Jazz III / Fit GK3/GK4/GK5/GK6 2013- , Grace / Citi GM6/GM9 2014 - , Civic IX FB 2014-2015, Civic X FC1/FK7 2016- , HR-V II 2017- , CR-V IV 2014 - 2016, CR-V V 2018- , Jade FR5 2014- , Odyssey RC1/RC2 2013- , Shuttle GK8/GK9 2015- , Stepwgn RK 2012-2015, Stepwgn RP1/RP2/RP3/RP4 2015- , Vezel RU1/RU2 2012-
<b>RAVENOL CVT Fluid</b> Art.-No.: 1211110	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 Handred 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
<b>RAVENOL CVT KFE Fluid</b> Art.-No.: 1211134	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
<b>RAVENOL CVTF NS2 / J1 Fluid</b> Art.-No.: 1211114	Synthetic CVTF (Continuously Variable Transmission Fluid) for CVT of JATCO. Nissan CVT NS-2 KLE52-0002, KLE52-0004, Mitsubishi S0001401, PSA Standard 9735EF, Suzuki CVT Fluid Green-1 99000-22B15-046
<b>RAVENOL CVTF NS3 / J4 Fluid</b> Art.-No.: 1211122	Synthetic CVTF (Continuously Variable Transmission Fluid), based on PAO with special additives and inhibition. ATF NS-3; ATF J4; Mitsubishi MZ320261, MZ320262, MZ320288, MZ102658; Nissan KLE53-00004, KLE53-00002, 999MP-NS300P; Suzuki CVT Fluid GREEN 2 9900022B24046, 990N022B24004.

Product name	Description / Features
<b>RAVENOL ATF PDK Fluid</b> Art.-No.: 1211131	Fully synthetic automatic transmission oil ATF with low viscosity and with special additives and inhibition for Porsche Dual Clutch Gear. Porsche PDK, Porsche 000 043 207 29, Porsche Oil No. 999.917.080.00, BMW 8322 2167 666 (MTF LT-5), MB 236.24 ( A 002 989 04 03)
<b>RAVENOL DCT/DSG Getriebe Fluid</b> Art.-No.: 1212106	Synthetic transmission fluid for Dual Clutch Gear. MB 236.21, VW G 052 182 A2, VW G 052 513, VW G 055 529 A2, Audi G 052 529 A2 S-Tronic, BMW DCTF-1, BMW 83220440214, 83222148579, 83222148578, 83222147477, 83222446673, 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
<b>RAVENOL DCT GT-R Fluid</b> Art.-No.: 1211129	Special transmission fluid for use in the new Nissan GT-R R35 double clutch transmission (DCT). Nissan KLD4100002EU, KLD41-00002, 999MP-GTRT00P
<b>RAVENOL ATF DCT-F3</b> Art.-No.: 1211135	Special synthetic transmission fluid, which has been developed for use in seven-speed Dual Clutch Gear transmission GETRAG Powershift 7DCL750. MB 236.25, GETRAG Powershift 7DCL750

## ATF Standard

Product name	Specification	Description / Features
<b>RAVENOL ATF +4® Fluid</b> Art.-No.: 1211100	ATF+4®	Synthetic automatic transmission fluid for Chrysler, Dodge, Plymouth, Jeep and Eagle automatic transmissions. Mixable with all ATF+4®, ATF+2® or ATF+3® transmission fluids. License no. 40630041 FCA US LLC (previously: Chrysler Group LLC), Mopar 68218054GA (previously: 680474406MA, 68087385EA) , 68218058GA (previously: 05013458AA, 05103531EA/05013458GA), 68218057GA (previously: 05013457AA, 05103527EA / 05013457GA) MS-9602, Fiat 9.55550-AV4
<b>RAVENOL ATF Fluid Type F</b> Art.-No.: 1213105		Special transmission fluid for Ford, Borg-Wagner, Volvo. FORD Type M2C-33F / G, Motorcraft XT-1-QF, VOLVO 97330
<b>RAVENOL ATF Fluid</b> Art.-No.: 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 automatic transmissions, turbo clutches, power couplings and other hydrostatic and hydrodynamic systems. MB 236.2, MAN 339 Type A, Renk Doromat, Cat. TO-2, Allison C4
<b>RAVENOL ATF Dexron D II</b> Art.-No.: 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, 05L,11A, 14A, 17C, VOITH H55.6335.xx, MAN 339 Type Z1, Ford SQM-9010B, Ford M2C-138 CJ, 166H, 185A, Cat. TO-2, MERCON, RENK DOROMAT, CVT, Allison C3/C4.
<b>RAVENOL ATF Dexron III H</b> Art.-No.: 1212100	DEXRON® III H, Allison C4	High performance synthetic universal ATF (Automatic-Transmission-Fluid) for automatic gearboxes with or without controlled torque converter lockup clutch (GKÜB = clutch gearbox bridging), if transmission fluids type DEXRON III H is required. Backward compatible, can be used if specification ATF Dexron F III is required. Allison C4-32642009 (ATF III H), Allison TES-389 AA-33072010 (ATF III H), GM Dexron® III H, DEXRON® III F-30140, ZF TE-ML 04D, 14A, 14B, 16L, 16R, 20B, 25B, 05L, 02F, 03D, 17C; Voith 55.6336.3x Extended Drain (G1363), Cat. TO-2; Ford MERCON M-940717; MAN 339 Type V1, MAN 339 Type Z1; MAN 339 Type Z2; MB 236.1, MB 236.5, MB 236.6, MB 236.9, MB 236.10; Nissan; VOLVO Transmission Oil 97341, VOLVO 1161521, 1161621.
<b>RAVENOL ATF Dexron II E</b> Art.-No.: 1211103	Dexron® II E	High performance synthetic ATF (Automatic-Transmission-Fluid) for automatic transmissions, torque converters and power shifts. MB 236.8, MB 236.5, Voith 55.6336.3x Extended Drain (G1363), Allison C4-32652009 (ATF II E), MAN 339 Type Z2, MAN 339 Type V2, ZF TE-ML 04D, 09X, 14B, 16L, Cat. TO-2



Product name	Specification	Description / Features
<b>RAVENOL ATF DEXRON® VI</b> Art.-No.: 1211105	Dexron® VI	Synthetic ATF, approved by General Motors for use in vehicles with automatic transmissions. Dexron®-VI licence no. J-60331, GMN 10060, MB 236.41, BMW 83 22 0 397 114, GM1940184, GM93165414
<b>RAVENOL ATF MERCON V</b> Art.-No.: 1212101	MERCON®V	Universal ATF (Automatic-Transmission-Fluid) for FORD automatic transmissions. MERCON®V (licence number M5060502), Ford WSS-M2C202-B, Ford XT-5-QMC, XT-5-5QM, XT-5-DMC, Ford 8000045, Ford ATF E-M5, Ford 1565889, Ford 5014519, Ford WSS-M2C-919-E
<b>RAVENOL MULTI ATF HVS FLUID</b> Art.-No.: 1211144		High viscosity ATF with a very wide manufacturer coverage. It can be used in almost all conventional automatic transmissions with shift groups if no suitable original oil is available. Not suitable for CVT automatic transmissions. JASO M315, Class 1A, ATF LT 71141, Aisin AW-1, BMW ATF LA 2634, BMW ATF 4, Hyundai/KIA/Mitsubishi ATF SP-III, Honda/Acura Z-1, JWS 3309, Nissan Matic-D, -J, -K, -W, Mazda M-III, Suzuki 3314/3317, Toyota/Lexus ATF T-IV, VW TL 052 025/052 162/052 990/055 025, and many more.
<b>RAVENOL MULTI ATF LVS FLUID</b> Art.-No.: 1211145		Low viscosity ATF with a very wide manufacturer coverage, can be used in almost all conventional automatic transmissions with shift groups if no suitable original oil is available. Not suitable for CVT automatic transmissions. ATF 3353/134/L12108, BMW ATF M1375.4, ATF L 12108, ATF 6, ATF-3+, Ford Mercon SP, Honda/Acura DW-1, Hyundai/Kia SP-IV, Mazda FZ, MB 236.12, 236.14, 236.15, 236.17, Mitsubishi DIA QUEEN ATF-PA, ATF Fluid J3, Nissan, Matic Fluid S, Toyota/Lexus ATF WS, ZF-LifeguardFluid 6/8/9, VW TL 60 162/55 540/52 533/55 005, and many more
<b>RAVENOL ATF T-ULV Fluid</b> Art.-No.: 1211146		Fully synthetic ATF (Automatic Transmission Fluid), designed on the basis of high quality polyalphaolefin (PAO) and Esters with a special additive and inhibition. ATF with ultra-low viscosity. ATF AW-2, BMW ATF 7, BMW 83 22 2 413 477 (8-Speed Automatic Transmission BMW GA8G45AW), PSA 16 350 560 80 (8-Speed Automatic Transmission PSA AMN8/ATN8/AXN8), Volvo 31492172/31492173 (8-Speed Automatic Transmission AWF8G45/AWF8G55), VW G 053 001 A2 (8-Speed Automatic Transmission VW 09S (AQ300-8F))

## ATF transmission oils for commercial vehicles

Product name	Specification	Description / Features
<b>RAVENOL ATF ZMS</b> Art.-No.: 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 Type Z3, MAN 339 Type Z4 (ZF Ecomat 150 000 km), ZF TE-ML 04D, 14E, 16N, 16Q, 20F (ZF Ecolife), ZF 0671 072 120, ZF 0671 072 130
<b>RAVENOL LKW ATF Synthetik</b> Art.-No.: 1211104		Synthetic ATF for the latest generation commercial of vehicle automatic transmissions. ZF TE-ML 14E, 16N, MAN 339 Type Z4 (ZF Ecomat 150 000 km), Allison TES-295 (TranSynd Fluid), Allison TES-468, Caterpillar 6-speed CX31 and 8-speed Super-Heavy-Duty CX35 transmissions, Voith 55.63353x (G 607) and 55.63363x (G 1363), Renk Doromat, MB 236.91

## Power steering and special hydraulic oils

Product name	Specification	Description / Features
<b>RAVENOL AWD-H Fluid</b> Art.-No.: 1211140		Special high-performance transmission oil for Haldex's four-wheel, Quattro and 4motion powertrains. VW G 052 175 A2, G 055 175 A2, G 060 175 A2, Volvo 31367940, GM 93165387, Opel 1940057, Land Rover LR 054941, LR 003136 (Haldex-Oil from 2011-2014)
<b>RAVENOL AWD-TOR Fluid</b> Art.-No.: 1211141		Special transmission oil for transfer cases of four-wheel drive systems from Torsen type of VW and AUDI. The recipe contains 4% of a special friction modifier. Audi/VW G 055145 A2; SAF-AG4 + FM
<b>RAVENOL GHA-F Gearbox Hydraulic Actuator Fluid</b> Art.-No.: 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
<b>RAVENOL E-PSF Fluid</b> Art.-No.: 1181002		Special fully synthetic fluid for use in electro hydraulic servo steering. Citroën DA 9730 A5, LDS 9979 A3; Fiat 9.55550-AG3; JTEKT EHS Elektro-Hydraulik Servolenkung (EHPS Electro-Hydraulic Power Steering); MAN M3289; Nissan E-PSF, 999MP-EPF00P, KLF51-00001; PSA S71 2710; Renault PSF Klasse 1 (Renault Laguna III); Toyota PSF-EH, 08886-01206.
<b>RAVENOL PSF-Y Fluid</b> Art.-No.: 1211123		Synthetic special fluid for servo steering for Volkswagen, Mercedes and Chrysler. VW G009300A2, Mercedes A0009898803, MB 236.3, Chrysler 05098158A, MS-5931, MS-9933, MS-10838, 04883077, GM 9985010, 89020661, 1050017, Mopar 05142893AA, Texaco TL 4634, HONDA 08206-9002, 08285-P99-012-11
<b>RAVENOL SSF Special Servolenkung Fluid</b> Art.-No.: 1181100	ISO 7308, DIN 51524 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 M2), MB 343.0 / MB 344.0 / MB 345.0, CHF11S, CHF202, Opel 1940 715, Opel 1940 766, Ford M2C204-A2, Ford 1 384 110, ZF TE-ML 02K, SAAB 93160548, BMW 83 29 0 429 576, Citroën 9979 A1, Land Rover Cold Climate PAS Fluid 14315 LRN2261, VOLVO 30741424, Hyundai/Kia PSF-4 03100-00130, Toyota PSF NEW-W, Toyota 08886-01115
<b>RAVENOL LHM+ Fluid</b> Art.-No.: 1181110	ISO 7308, DIN 51524 Part 2	Special hydraulic fluid designed for use in vehicles of the PSA group (Citroën, Peugeot). PSA Standard B 71 2710
<b>RAVENOL Hydraulik PSF Fluid</b> Art.-No.: 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

# Gear oil for manual gearboxes – Professional Line

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL MTF-1</b> Art.-No.: 1221102	75W-85	GL-4 / GL-5		Fully synthetic gear oil based on PAO 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 03, Mitsubishi 3717610, MTF BOT 402, BOT 0063 for F35 / MU3 5-Gang SAAB / GM / Opel, Nissan KLD26-75802, KE91699931, KE91699942, 999MP-MTF00P, TOYOTA 08885-02606, 08885-81070, 08885-81060
<b>RAVENOL MTF-2</b> Art.-No.: 1221103	75W-80	GL-4 / MT-1		Fully synthetic gear oil based on PAO for modern manual transmissions. AC Delco 10-403; General Motors 1940711, 88861800, 88861801; BMW 2300 7533 513 MTF LT-2, 83 22 0 309 031 / 2300 1434 404 MTF LT-1; FIAT 9.55550-MZ2 F178.B06 14621616; FORD WSS-M2C200-D2 WSS-M2C200-C3 1547953 1382914; Honda 08261-99964 Genuine MTF Fluid 08798-9031 MTF-7289; Hyundai 02200-00130 TOD; Land Rover STC 9157 TYK500030 STC 9158; MB 235.10 A 001 989 26 03, Mitsubishi MZ312644 3005401; MTF-94 Fluid for Land Rover, MG and Mini Cooper; Nissan 999MP-MTF20P KE91699932R; Peugeot 9730A2; Subaru K0321-F0090; TOYOTA 08885-00705, MTF XT4447 M+, MTF ETL8997B, MTF 97309; PSA B 71 2330; VOLVO 1161681 1161745; VW/AUDI G 052 911 A2, G 055 538 A2 for ZF 6S450 Amarok 0C6; AUDI G 052 532 and G 055 532
<b>RAVENOL MTF-3</b> Art.-No.: 1221104	75W			Fully synthetic gear oil for special manual transmissions. ACDelco 10-4037; BMW MTF LT-3 23 00 7 533 818, 83 22 0 396 706, 83 22 7 533 818; BOT303; BOT 350 M3; Fiat 9.55550-MZ6; FORD WSS-M2C200-D2; GM 19259104, 1940004; JWS2271; Mercedes A001989840309, MB 235.10; Opel B0402167; PSA Standard 9730A8; TOYOTA 08885-81001, TOYOTA 08885-81081; Suzuki 99000-22B27-036; VW G 009 317 A2, G 052 512 A2, G 052 527, G 052 171 A2, G 052 527 A2, G 055 532 A2, G 070 726 A2; VW/AUDI G 060 726 A2; VOLVO 1161839, VOLVO 1161838.

# Gear oils for manual gearboxes and drive axles

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL MDL Multi-Disc locking differentials</b> Art.-No.: 1222103				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
<b>RAVENOL STF Synchromesh Transmission Fluid</b> Art.-No.: 1221105				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
<b>RAVENOL Truck MTF-50</b> Art.-No.: 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

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL GEAR TRANS SYNTH GTS</b> Art.-No.: 1221122	75W-90	GL-4/ GL-5/MT-1	MIL-PRF 2105 E, SAE J2360	Axle gear oil based on the latest fully synthetic components for commercial vehicles, particularly suitable for Daimler specification 235.8. Arvin Meritor 076-N, DAF, DFS93K219.01, IVECO, Mack GO-J, MB 235.8, MAN 341 Z-2, 342 M-3, 342 S-1, Renault, Scania STO 1:0, STO 2:0 A FS, Volvo 97312, ZF TE-ML 02B, 05, 07, 08, 12B, 12L, 12N, 13, 16F, 17B, 19C, 21A
<b>RAVENOL GEAR SUPER SYNTH GSS</b> Art.-No.: 1221123	75W-90	GL-4/ GL-5/MT-1	MIL-PRF 2105 E, SAE J2360	Axle gear oil based on the latest fully synthetic components for commercial vehicles and for non-synchronized manual transmissions. Arvin Meritor 076-N, DAF, DFS93K219.01, IVECO 18-1805, Mack GO-J, MAN 341 GA-2, 342 S-1, Scania STO 2:0 G, STO 2:0 A FS, Volvo 97312, ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A
<b>RAVENOL VSG</b> Art.-No.: 1221101	75W-90	GL-5 / GL-4	MIL-L-2105D	Fully synthetic gear oil for use in heavily loaded transmissions. BMW 83229407768, BMW 83222365987, BMW OSP, BMW SAF-XO; BOT 328, 130M, 720; DAF LKW (for longdrain interval); Ford WSD-M2C200-C, Ford 1045737, Ford 5021033 für Ford-Getriebe IBS, B5, MTX75, GM5, MT285/6, MT6/6, MT75, R15M-D, R15MX-D, MT82; IVECO; Land Rover TYK500010; MAN 342 Typ S1; MB 235.8, MB 235.11; MIL-L 2105 D; Porsche 958.341.536.00 (Full-Time Transfer Case with Torsen (PL72T) for Cayenne 92A / 958 Diesel and S Hybrid from 2010 to 2018); Renault LKW; SCANIA STO 1:0; VOLVO 97312 / 97315 / 97319; VW G052 145 A2, VW G052 539 A2, VW G052 911 A2; ZF TE-ML 12B, 16F, 17B.
<b>RAVENOL SSG Spec Synt LKW Getriebeöl</b> Art.-No.: 1221100	75W-80	GL-4	MIL-L-2105D	Synthetic low friction gear oil especially for high stressed gears. For synchronized truck manual transmissions with interarder or retarder. Extreme oil change intervals to 500.000 km. ZF TE-ML 01L, 02L, 16K, MAN 341 Type Z4, MAN 341 Type E3, MAN 341 Type V-R, DAF / VOLVO 97305, 97307, EATON (Extended drain) / IVECO / RENAULT
<b>RAVENOL Getriebeöl SLG</b> Art.-No.: 1223305	80W-90	API GL-3/ GL-4/GL-5/ MT-1	MIL-L-2105 A/B/C/D/E, MIL-PRF-2105E	High performance multifunction gear oil for truck manual transmissions, auxiliary drives an rear axles, including highly stressed hypoid drive axles. DAF, MAN 341 Type Z2/E2, MAN 342 Type M2, SCANIA STO 1:0, VOLVO 97321; ZF TE-ML 02B, 05A, 12E, 16B, 16 C, 16 D, 17B,19B, 21A, MB 235.0, Mack GO-J, Iveco
<b>RAVENOL Partsynthetisches Getriebeöl TSG</b> Art.-No.: 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. Ford M2C-175; GM Opel B 040 104 3; VW 501 50, VW G052 911 A2, G060726 A2
<b>RAVENOL TGO Partsynthetisches Getriebeöl</b> Art.-No.: 1222105	75W-90	GL-5	MIL-L-2105D	Semi synthetic gear oil especially for highest stressed hypoid geared transmissions. MB 235.0, MB 235.1, MB 235.8, MAN 342 M2 (160.000 km), ZF TE-ML 05A, 07A, 16B/C/D, 17B, 19B, 21A, CS 3000B, Ford M2C-9002A, Mack GO-G, GM
<b>RAVENOL PSA</b> Art.-No.: 1222100	75W-80	GL-4		Semi synthetic gear oil especially developed for Citroën and Peugeot vehicles. PSA Standard B 71 2315
<b>RAVENOL TDG</b> Art.-No.: 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 05A, 05B, 07A, 08, 12N, 16F, 19C, 21A(ZF001438), 21B, SAE J23260, MACK GO-J, DAF, Meets the requirements of Scania STO 1:0
<b>RAVENOL DGL</b> Art.-No.: 1221107	75W-85	GL-5+ LS	MIL-L-2105D	Fully synthetic multi-grade hypoid transmission oil of API GL-5 power class with "limited slip" properties for manual transmissions and rear-axles in motor vehicles. Toyota 08885-8081, Toyota JWS 2273, BMW, Dodge, Jeep, Lexus, AC Delco 10-4032, BOT 448, BMW 83 22 2 239 982, BMW 83 22 2 295 532, BMW Hypoid Axle Oil G1, Chrysler ELSD Rear Axle, FIAT 9.55550 F426.E06, Fiat 9.55550-DA8, -DA9, GM 92184900, Land Rover LR052059, Mercedes Benz MB 235.7 A0019898303, MB 235.74 A0019893303, MB 239.71, Mopar 68083381AA, ZF TE-ML 18, VW TL 521 90, G052 196 A2, G052 190 A2, G055 190 A2.
<b>RAVENOL Getriebeöl LS</b> Art.-No.: 1222102	75W-90	GL-5 + LS	MIL-L-2105D	Synthetic gear oil for Limited Slip (LS) type differentials. ZF TE-ML 05C/D, GM 1940058 / GM 93165388, GM 88862624 / GM 88862625

Product name	Classifications			Description / Features
	SAE	API	Specification	
<b>RAVENOL Getriebeöl SLS</b> Art.-No.: 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
<b>RAVENOL SGO</b> Art.-No.: 1222201	80W-140	GL-5/MT-1	MIL-L-2105D	Synthetic transmission oil for high loaded hypoid gearboxes based on high quality synthetic base oils and additives that are a balanced combination of active ingredients. MACK GO-J, SAE J2360, Scania STO 1:0, ZF TE-ML 05A, 7A, 12E, 16C, 16D, 21A
<b>RAVENOL Sperrdiff. Hypoid Getriebeöl LS</b> Art.-No.: 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
<b>RAVENOL Sperrdiff. Hypoid Getriebeöl LS</b> Art.-No.: 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
<b>RAVENOL Getriebeöl EPX</b> Art.-No.: 1223201 Art.-No.: 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
<b>RAVENOL Getriebeöl EPX</b> Art.-No.: 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
<b>RAVENOL Getriebeöl EPX</b> Art.-No.: 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
<b>RAVENOL Getriebeöl EPX</b> Art.-No.: 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
<b>RAVENOL Getriebeöl EPX</b> Art.-No.: 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
<b>RAVENOL Getriebeöl MZG</b> Art.-No.: 1223101	80	GL-4	MIL-L-2105D	Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02A, 17A, MB 235.1, Ford SQM-2C-9008A
<b>RAVENOL Getriebeöl MZG</b> Art.-No.: 1223105	80W-90	GL-4	MIL-L-2105D	Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02B, 16A, 17A, 19A, MB 235.1, Ford SQM-2C-9008A
<b>RAVENOL Getriebeöl MZG</b> Art.-No.: 1223102	90	GL-4	MIL-L-2105D	Mineral EP multi-purpose gear oil to lubricate manual gearboxes, transfer cases, steering gears as well as axle drives subject to normal strain. MAN 341 Type Z1, MAN 341 Type E1, ZF TE-ML 02B, 16A, 17A, 19A, MB 235.1, Ford SQM-2C-9008A

## Hydraulic oils

Product name	Classifications		Description / Features
	ISO VG	Specification	
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323101	10	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Vickers-Pump-Test, DENISON HF-2, HF-0, MIL-H 24 459, AFNOR NFE 48 603 HM, HV, SIS SS 155434, Denison Filterability TP 02100, Hoesch HWN 2333, U.S. Steel 126 u. 127, CETOP RP 91 H (HM, HV), Sperry Vickers M-2950-S u. I-286-S, FZG 12, Cincinnati Milacron P-68, 69, 70, MIL-H 24 459, Eickhoff, Voith
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323102	15	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Vickers Pump Test, FZG test A 8.3/90: The 12th load level is safely reached, VDMA 24318, ASTM D6158, ISO 11158 HM, SAE MS1004 Typ HM MIL-H 24 459, AFNOR NFE 48 603 (HM), GB 11118.1 L-HL, Swedish Standard SS 155434, DENISON HF-2 und HF-0, Cincinnati Milacron P-68, 69, 70, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Metso, Sauer-Danfoss 520L0463
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323103	22	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. AFNOR NFE 48 603 (HM); ASTM D6158; Bosch Rexroth RE 90220; CETOP RP 91H HM; Cincinnati Milacron P-68, 69, 70; Danieli Hydraulics; DENISON HF-2 und HF-0; FZG-Test A 8,3/90: 12th load level is reached; GB 11118.1 L-HL; ISO 11158 HM; Metso; MIL-H 24 459; SAE MS1004 Typ HM; Sauer-Danfoss 520L0463; Swedish Standard SS 155434; VDMA 24318; Vickers-pump-test
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323104	32	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Vickers Pump Test, FZG test A 8.3/90: The 12th load level is safely reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, JCMAS HK, MIL-PRF-17672E, SAE MS1004 HM, SEB 181 222, US Steel 126, 127, 136, VDMA 24318, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-38/P-68, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323105	46	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Vickers Pump Test, FZG test A 8.3/90: The 12th load level is safely reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, JCMAS HK, MIL-PRF-17672E, NATO H-573, SAE MS1004 HM, SEB 181 222, US Steel 126/127/136, VDMA 24318, Arburg, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-55, P-70, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463, ZF TE-ML 07H
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323106	68	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Vickers Pump Test, FZG test A 8.3/90: The 12th load level is safely reached AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, MIL-PRF-17672E, SAE MS1004 HM, SEB 181 222, Swedish Standard SS 155434, US Steel 126, 127, 136, VDMA 24318, Atos, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Eaton Vickers I-286-S, M-2950-S, Fives Cincinnati P-55, P-70, General Motors LH-02-1-04, LS-2, Metso, Müller Weingarten, Sauer-Danfoss 520L0463, ZF TE-ML 07H, SIS SS 155434, Hoesch HWN 2333
<b>RAVENOL Hydrauliköl TS</b> Art.-No.: 1323107	100	HLP, DIN 51 524 Part 2, ISO 6743-4 HM	Mineral hydraulic oil. Wide range of industrial applications. Eickhoff-Bergbautechnik, Vickers-Pump-test, FZG-Test A 8,3/90: 12th load level is reached, AFNOR NF E 48-603 HM, ASTM D6158, GB 11118.1 L-HM (conventional), ISO 11158 HM, SAE MS1004 HM, SEB 181 222, Swedish Standard SS 155434, VDMA 24318, Bosch Rexroth RE 90220, CETOP RP 91H HM, Danieli Hydraulics, Denison HF-0, HF-1, HF-2, Sauer-Danfoss 520L0463

Product name	Classifications		Description / Features
	ISO VG	Specification	
<b>RAVENOL</b> <b>Hydrauliköl TSX</b> Art.-No.: 1323202 Art.-No.: 1323203 Art.-No.: 1323204 Art.-No.: 1323205 Art.-No.: 1323206 Art.-No.: 1323207	15 22 32 46 68 100	<b>HVLP,</b> <b>DIN 51 524 Part 3</b>	Mineral hydraulic oil with high viscosity index (VI). Excellent for heavy loaded hydraulic plants in industry, earth moving machinery and agricultural machines. ISO 6743-4-HV; 15: AFNOR NFE 48-603 HV, AFNOR NFE 48-690/1; Bosch Rexroth RE90220; GB 111118.1 L-HV; CETOP RP 91H HV; ISO 11158 HV; SAE MS1004; Sauer-Danfoss 520L0463; 32: AFNOR NFE 48-603 HV, AFNOR NFE 48-690/1; CETOP RP 91H HV; GB 111118.1 L-HV; ISO 11158 HV, ISO 6743-4 HV; JCMAS HK VG32W; SAE MS1004; US Steel 127/136; Bosch Rexroth RE90220; Denison HF-0/HF-1/HF-2; Eaton Vickers I-286-S/M-2950-S; Fives Cincinnati P-68; General Motors LH-03-1-04/LS-2; Sauer-Danfoss 520L0463; 22, 46, 68, 100: AFNOR 48 603 HV; CETOP RP 91H-HV; DENISON HF-0, HF-1, HF-2; FZG 12; General Motors LH-04-1, LH-06-1, LH-15-1; Sperry Vickers 1-286-S, M-2950-S; US Steel 127, 136
<b>RAVENOL</b> <b>Hydraulikoel</b> <b>HVLP-D</b> Art.-No.: 1323364 Art.-No.: 1323365 Art.-No.: 1323366	32 46 68	<b>HVLP-D,</b> <b>DIN 51 524 Part 3</b>	Detergent hydraulic oil with a high viscosity index for use in a wide temperature range. Designed for heavily loaded hydraulic systems of agricultural, forestry and construction machinery. 32: AFNOR 48-603, AFNOR 48-690/1; CETOP RP 91H (HV); ISO 11158 HV, ISO 6743-4 46, 68: CETOP RP 91H-HV, General Motors LH-04-1, General Motors LH-06-1, General Motors LH-15-1, ISO 6743/4-HV, DENISON HF-1, HF-0, HF-2, Sperry Vickers M-2950-S, Sperry Vickers 1-286-S, AFNOR 48 603 HV, US Steel 136
<b>RAVENOL</b> <b>Hydrauliköl HLP-D</b> Art.-No.: 1323303 Art.-No.: 1323304 Art.-No.: 1323305 Art.-No.: 1323306	22 32 46 68	<b>HLPD,</b> <b>DIN 51 524 Part 2</b>	Hydraulic oil HLPD for use in agricultural, construction and plant machinery. HLP-D 32 is zinc and ash free. MAN N 698, DENISON HF-0, Daimler DBL 6721 32 additional: AFNOR NF E 48-603 HM; ASTM D6158; DIN 51524-2 HM (exceeds the requirements for hydraulic oils HLP); ISO 11158 HM, ISO 6743-4 HM; JCMAS HK; SAE MS1004 HM; SEB 181 222; US Steel 127/136; VDMA 24318
<b>RAVENOL</b> <b>Hydrauliköl TS AF</b> Art.-No.: 1323124 ISO VG 32 Art.-No.: 1323125 ISO VG 46 Art.-No.: 1323126 ISO VG 68	32 46 68	<b>HLP,</b> <b>DIN 51 524 Part 2</b>	High quality zinc and ash-free hydraulic oil, alloyed on sulfur / phosphorus-basis, which has been designed specifically for use in the metal industry. 32: DIN 51 524-2, AFNOR NF E 48-603 HM, ASTM D6158, GB 111118.1 L-HM, ISO 11158/6743-4 HM, SAE MS1004 HM, US Steel 127/136; Denison HF-0, HF-1, HF-2; Eaton Vickers I-286-S, M-2950-S; Fives Cincinnati P-38, P-68; FZG-Test A 8,3/90: The 12th load level is easily achieved; GM LH-03-1-04; MAN N 698; Müller Weingarten; 46, 68: SEB 181.222, 181.226; Thyssen TH-N256-142; Timken-Test nach DIN E 51434; Vickers-Pumpentest SEB 181.222, 181.226, Vickers-Pumptest, Timken-Test acc. to DIN E 51434, MAN N 698, FZG-Test A 8,3/90: 12. Loadstep
<b>RAVENOL</b> <b>Frostlube F</b> Art.-No.: 1323350 Art.-No.: 1323351 Art.-No.: 1323352	12 22 32	<b>ISO 6743/4-HV</b>	High quality, anti-wear hydraulic oil with a very high viscosity index, good shear stability and excellent low-temperature properties for application in extremely low temperatures, e.g. equipment in refrigerated warehouses or mobile facilities, which are used outdoors under extreme winter conditions.
<b>RAVENOL</b> <b>Bio-Hydrauliköl</b> <b>(auf Esterbasis)</b> Art.-No.: 1321104 ISO VG 32 Art.-No.: 1321105 ISO VG 46 Art.-No.: 1321106 ISO VG 68	32 46 68	<b>HEES,</b> <b>DIN 51 524 VDMA</b> <b>24532, VDMA 24570,</b> <b>VDMA 24568</b>	Bio-hydraulic oil based on esters. Use in hydraulic systems of sewage treatment plants, dredgers and dredging, hydraulic lock and river weirs, pipes and tunneling, hydraulic power packs in the woods and fields, earth moving equipment in water, forestry equipment. ISO 15380, Rexroth Bosch Group: RE / RD 90221-01/02.10, SP Technical Research Institute, Sweden (Swedish Standard 15 54 34), fulfils the requirements of "Blauen Engel" (Environmental friendly)

# Industrial oils, specialities

Product name	Classifications		Description / Features
	ISO VG	Specification	
<b>RAVENOL DOT 4</b> Art.-No.: 1350601		<b>ISO 4925,</b> <b>FMVSS 116 DOT 4</b>	DOT 4 Brake fluid for all vehicles with ABS-Characteristics. SAE J1704
<b>RAVENOL DOT 4 LV</b> Art.-No.: 1350605		<b>ISO 4925 (6),</b> <b>FMVSS 116 DOT 4</b>	Brake and Clutch Fluid which conforms to and exceeds the latest ISO 4925 Class 6 standard. Especially suitable for low temperatures. SAE J 1703, SAE J 1704 and ISO 4925 (Klasse 3, 4 & 6)
<b>RAVENOL DOT 5.1</b> Art.-No.: 1350602		<b>ISO 4925,</b> <b>FMVSS 116 DOT 5.1</b>	DOT 5.1 Brake fluid for all vehicles with ABS-characteristics, that require this specification. SAE J1704
<b>RAVENOL</b> <b>Calibration Fluid</b> Art.-No.: 1350130		<b>ISO 4113</b>	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
<b>RAVENOL</b> <b>Calibration Fluid</b> <b>2.5</b> Art.-No.: 1350131		<b>ISO-Norm</b> <b>4113-CV-AW</b>	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.
<b>RAVENOL</b> <b>Turbo Oil T</b> Art.-No.: 1331114 ISO VG 32 Art.-No.: 1331115 ISO VG 46	32 46	<b>Siemens TLV 9013 04,</b> <b>TLV 9013 05,</b> <b>DIN 51515 Part 1 (L-TD),</b> <b>Part 2 (L-TG)</b>	High-quality lubricating oil for gas and steam turbines as well as for turbo compressors with and without gears. MIL-L-17672 D, British Standard BS 489, General Electric GEK 32568 A/C, CEGB Standard 207001, Brown Boveri HTGD 90117, U.S. Steel 120, Westinghouse Electric Corp. Turbine Oil Spec., Alstom HTGD 90117 V0001 S, Solar ES 9 224 requirements for gas turbine oils Class II
<b>RAVENOL</b> <b>Getriebeöl CLP</b> Art.-No.: 1332106 Art.-No.: 1332107 Art.-No.: 1332108 Art.-No.: 1332109 Art.-No.: 1332110 Art.-No.: 1332111 Art.-No.: 1332112	68 100 150 220 320 460 680	<b>DIN 51 517 Part 3,</b> <b>FZG 12, US Steel 224</b>	CLP Gear oil for the use in industrial gearboxes. US Steel 224, AGMA 9005-D94, Cincinnati Milacron, Clean Panel Coker, S-200 Oxidation Tubes
<b>RAVENOL</b> <b>Getriebeoel PAO</b> <b>CLP</b> Art.-No.: 1332206 Art.-No.: 1332208 Art.-No.: 1332209 Art.-No.: 1332210 Art.-No.: 1332211 Art.-No.: 1332212	68 150 220 320 460 680	<b>DIN 51 517 Part 3,</b> <b>US Steel 224</b>	Premium performance, zinc- and ash-free extreme pressure lubricant designed for enclosed industrial gears and bearings operating under severe load conditions and in wide extremes of temperature. Eickhoff mining technology: Confirmation for use in gear housings, Flender Industrial Gear GE787/788 and GA880 components, Eickhoff Gear, Jahnel Kestermann, AGMA 9005-E02 (EP). David Brown S1.53.101 Type E, Cincinnati Machine P-74
<b>RAVENOL</b> <b>Kompressorenoel</b> <b>PAO</b> Art.-No.: 1330115 Art.-No.: 1330116 Art.-No.: 1330117 Art.-No.: 1330118	46 68 100 150	<b>DIN 51 506 VDL</b>	Premium quality compressor oil which is specially designed to extend the service life time of compressors. Especially suitable in rotary screw air compressors.
<b>RAVENOL</b> <b>Kompressorenöl</b> <b>VDL</b> Art.-No.: 1330100 Art.-No.: 1330101 Art.-No.: 1330102	100 150 220	<b>DIN 51 506 VDL</b>	Use in stationary and mobile compressors, lubrication of engines and diesel engines. ATLAS COPCO, ABAC, ALUP, CompAir, FIAC, FINI, KAESER

Product name	Classifications		Description / Features
	ISO VG	Specification	
<b>RAVENOL SCR PAO Screw Kompressorenöl</b> Art.-No.: 1330314 Art.-No.: 1330315 Art.-No.: 1330316 Art.-No.: 1330317	32 46 68 100	DIN 51 506 VDL	Fully synthetic compressor oil, which is specifically designed to provide effective lubrication in rotary screw air compressors. Excellent thermal stability for reducing carbon deposit formation.
<b>RAVENOL SCR Screw Kompressorenöl</b> Art.-No.: 1330304 Art.-No.: 1330305 Art.-No.: 1330306	32 46 68	DIN 51 524, Part 2	Optimal alloyed screw compressor oil, with a high performance level and a wide application area of the whole industry Vickers-Pumpentest , FZG-Test A 8,3/90: 12th load level is reached
<b>RAVENOL ODL Druckluftöl</b> Art.-No.: 1323404 Art.-No.: 1323405 Art.-No.: 1323407	32 46 100		Special-compressed-air-oil for pneumatic tools of all systems. Bonds condensed water, has an excellent corrosion and wear protection Atlas Copco, Festo, Hilti, Bosch, Makita, Black & Decker, Cress, Ryobi, DeWalt, Sumake, Seno, Hitachi.
<b>RAVENOL Wärmeträgeröl</b> Art.-No.: 1330210 Art.-No.: 1330212	32 68		Mineral oil-based heat transfer oil for use in heat transfer systems with forced circulation. DIN 51 522, Heat transfer fluid Q32 according to DIN 51 502
<b>RAVENOL Traföl 1000P</b> Art.-No.: 1330201		IEC 60296 (03)	Insulating oil for transformers and switches.
<b>RAVENOL Gatteröl</b> Art.-No.: 1350370	320		Adhesive-capable lubricating oil for use in (open) bearings from metal finishing industries, as well as textile, packaging and web presses.
<b>RAVENOL Kältemaschinenöl K</b> Art.-No.: 1331104 Art.-No.: 1331105 Art.-No.: 1331106	32 46 68	DIN 51 503 Group KAA	Compressor oil for the lubrication of refrigerating machines.
<b>RAVENOL Kältemaschinenöl PAO</b> Art.-No.: 1331255 Art.-No.: 1331256 Art.-No.: 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.
<b>RAVENOL Kältemaschinenöl POE</b> Art.-No.: 1331202 Art.-No.: 1331203 Art.-No.: 1331204 Art.-No.: 1331205 Art.-No.: 1331206 Art.-No.: 1331207	15 22 32 46 68 100		Compressor oil for the lubrication of refrigerating machines. HFC 134a, R 404a, R 507
<b>RAVENOL Umlauföl 460</b> Art.-No.: 1333111	460	DIN 51 517 Part 2	Rolling lubricant based on a high quality base stocks, along with specially chosen additives, to provide rust and corrosion protection and excellent demulsibility which results in superb equipment protection. SMS SIEMAG - MORGOIL® Lubricant specification SN 180-Part 4: 2009-07, SN 180-Part 3: 2009-06

Product name	Classifications		Description / Features
	ISO VG	Specification	
<b>RAVENOL Umlauföl NB-E</b> Art.-No.: 1333003 Art.-No.: 1333004 Art.-No.: 1333005 Art.-No.: 1333006 Art.-No.: 1333007 Art.-No.: 1333008	22 32 46 68 100 150	DIN 51524 Part 1	Recirculating oil. Category HL, DIN 51 517 Part 2, Category CL, DIN 51 506 VBL/VCL
<b>RAVENOL Vakuumpumpenöl ISO VG</b> Art.-No.: 1330704 Art.-No.: 1330705 Art.-No.: 1330706 Art.-No.: 1330707 Art.-No.: 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 Vakuumpumpen, Hyvac 93055, Ulvac 100, BUSCH VM and VMH, Balzers P3, Kinney Type A, Beckmann 19, Fisherbrand 19, SAVANT SPO-1
<b>RAVENOL Getriebeöl Glycosynth Gear</b> Art.-No.: 1332308 Art.-No.: 1332309 Art.-No.: 1332310	150 220 320	DIN 51 517 Part 3, FZG 12	Synthetic industrial gear oil for the lubrication of heavy loaded mechanical gearboxes and bearings with a high thermal load.
<b>RAVENOL Bettbahnöl</b> Art.-No.: 1350374 Art.-No.: 1350375 Art.-No.: 1350376 Art.-No.: 1350377 Art.-No.: 1350378	32 46 68 150 220	DIN 51 502 CGLP, DIN 51 517-3 CLP, DIN 51 524-2 HLP	Way-sliding oil for heavy-duty performance. 32: AFNOR E 60-203 L-G/HG, GB 11118.1-94 L-HG/HM, ISO 6743-6 CKC, ISO 6743-13 GA/GB; ISO 11158 HG/HM, ISO 19378 GA/GB, SAE MS 1007 Type E, SH/T 0361-98 L-G, Eaton Vickers M-2950-S, General Motors LS2 LW-03-1-04, Fives Cincinnati P-53
<b>RAVENOL Turbinenöl T32</b> Art.-No.: 1330354	32	6743-0, DIN 51 515	High quality turbine oil. BS 489, CEGB Standard 207001, General Electric GEK 32568 A/C, MIL-L-17672 D, Siemens TLV 9013 04/01, Alstom HTGD 90117 V0001 S, Brown Boveri HTGD 90117, Solar ES 9 224 Classe II (ISO VG 32), U.S. Steel 120, Westinghouse Electric Corp. Turbine Oil. Spec.
<b>RAVENOL Turbinenöl T46</b> Art.-No.: 1330355	46	6743-0, DIN 51515, Part 1 (L-TD), Part 2 (L-TG)	High quality turbine oil. BS 489, CEGB Standard 207001, General Electric GEK 32568 A/C, MIL-L-17672 D, Siemens TLV 9013 04/01, Alstom HTGD 90117 V0001 S, Brown Boveri HTGD 90117, U.S. Steel 120, Westinghouse Electric Corp. Turbine Oil. Spec.
<b>RAVENOL Turbinenöl T68</b> Art.-No.: 1330356	68	6743-0, DIN 51 515 L-TD	High quality turbine oil. BS 489: 1999, Siemens TLV 9013 04, Alstom HTGD 90117
<b>RAVENOL Turbinenöl T100</b> Art.-No.: 1330357	100	6743-0, DIN 51 515 L-TD	High quality turbine oil. BS 489: 1999, Siemens TLV 9013 04
<b>RAVENOL Sägekettenöl S 85</b> Art.-No.: 1350300			Chain saws all models.
<b>RAVENOL Super Sägekettenöl</b> Art.-No.: 1350301			Use in motor chain saws. Rapidly biodegradable. Blue Angel "Blue Angel" in accordance with RAL-ZU 48, "KWF Test" with test no. 4979 EU Ecolabel with test number DE/027/187

# Lubricating greases

Product name	Classifications		Description / Features
	NLGI	Specification according to DIN 51 502	
<b>RAVENOL Mehrzweckfett OML</b> Art.-No.: 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
<b>RAVENOL Mehrzweckfett mit Graphit</b> Art.-No.: 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
<b>RAVENOL Mehrzweckfett mit MoS2</b> Art.-No.: 1340103	2	KPF2K-30	Lithium saponified grease with molybdenum sulfide MoS2 for lubricating hard to reach places, and reciprocating machine parts for chassis lubrication. Salt water resistant. ISO 6743: ISO-L-XCCIB2
<b>RAVENOL Super EP-Langzeitfett</b> Art.-No.: 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
<b>RAVENOL LKW FETT BLAU</b> Art.-No.: 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
<b>RAVENOL Wälzlagerfett LI-86</b> Art.-No.: 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
<b>RAVENOL Amber Getriebefließfett</b> Art.-No.: 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
<b>RAVENOL KFZ-Fließfett ZSA</b> Art.-No.: 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
<b>RAVENOL Kettenfließfett</b> Art.-No.: 1340114	0	GP0K-30	Lithium saponified multipurpose grease for the lubrication of chains. ISO 6743: ISO-L-XCCFB0
<b>RAVENOL Polfett-Säureschutzfett</b> Art.-No.: 1340115	2	K2K-30	Lithium saponified multi-purpose grease to protect contacts and metal parts from aggressive acids. ISO 6743: ISO-L-XCCEA2

Product name	Classifications		Description / Features
	NLGI	Specification according to DIN 51 502	
<b>RAVENOL Hochleistungsfett mit MoS2</b> Art.-No.: 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
<b>RAVENOL Kupferpaste</b> Art.-No.: 1340109	1-2	KF1, 5U-20	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
<b>RAVENOL Mehrzweck-Vaseline</b> Art.-No.: 1340112	2	K2K-30	Lithium saponified multipurpose grease with oxidation and corrosion inhibitors. It is exceptionally mechanically stable, has a very low internal friction value and is therefore easily transportable ISO 6743: ISO-L-XCCEA2
<b>RAVENOL Extreme Pressure Grease EPG 3</b> Art.-No.: 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
<b>RAVENOL Hot Red Grease HRG 1</b> Art.-No.: 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
<b>RAVENOL Hot Red Grease HRG 2</b> Art.-No.: 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, MAN 284 Li-H2, MB-Freigabe 265.1
<b>RAVENOL Hot Red Grease HRG 3</b> Art.-No.: 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
<b>RAVENOL Arctic Green Grease AGG 2</b> Art.-No.: 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
<b>RAVENOL Arctic Tripoid Grease ATG 2</b> Art.-No.: 1340125	2	KPFE2K-60	Lithium saponified high performance grease with molybden disulfide MoS2 based on synthetic/native esters, synth. Hydrocarbons and high quality mineral oils. Suitable for the lubrication of high pressure loaded roller and plain bearings at very low temperatures. ISO 6743: ISO-L-XECEB2
<b>RAVENOL Marinefett</b> Art.-No.: 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

# Additives and brake fluids

Product name	Classifications	Description / Features
<b>RAVENOL Petrol Performance Optimizer Premium</b> Art.-No.: 1390201	TÜV Seal	Premium additive for petrol engines for cleaning all components in contact with fuel. Ensures a technically safe and economic operation. Also when using E10 petrol blend.
<b>RAVENOL Petrol System Cleaner</b> Art.-No.: 1390202		Cleans and protects the injection system from corrosion. Removes resinous and varnish-type deposits on a microscale on fuel injection valves and fuel volume distributors and therefore, ensures precision control of fuel injection valves.
<b>RAVENOL Petrol Quality Stabilisator</b> Art.-No.: 1390203		Improves starting behavior. Corrosion and aging protection during long standstill periods.
<b>RAVENOL Octane Booster</b> Art.-No.: 1390204		Higher performance by increasing octanenumber. For performance enhancement with low grade fuel.
<b>RAVENOL Diesel Performance Optimizer Premium</b> Art.-No.: 1390241	TÜV Seal	Premium additive for all diesel engines for cleaning the diesel system, increasing operational safety and for the economic feasibility of diesel engines. Cleans and protects the diesel fuel system.
<b>RAVENOL Diesel Cetane Booster</b> Art.-No.: 1390242		Improves the ignition behavior, especially during cold starts. Increases the cetane rating of the diesel fuel.
<b>RAVENOL Diesel System Cleaner</b> Art.-No.: 1390243		Cleans the fuel injection system for low soot combustion. Prevents rattling noises and rough idling.
<b>RAVENOL Diesel Quality Stabilisator</b> Art.-No.: 1390244		Optimized storage stability and antibacterial effect. For storage and overwintering purposes and to prevent start problems after longer standstill periods.
<b>RAVENOL Professional Radiator Stop Leak</b> Art.-No.: 1390301		Seals small leaks, safe and fast to increase operational safety.
<b>RAVENOL Professional Radiator Cleaner</b> Art.-No.: 1390302		Cleaning concentrate for the cooling and heating system. Breaks down and binds greasy and oily deposits in radiators, heating systems and pipelines.
<b>RAVENOL Motobike System Cleaner Shot</b> Art.-No.: 1390401		Fuel additive with high proportion of cleaning and corrosion-protective additives for all petrol direct injection engines for motorbikes which increases the performance of the engine.
<b>RAVENOL Motobike Engine Cleaner Shot</b> Art.-No.: 1390402		Highly effective oil circuit cleaning concentrate for the efficient cleaning of all motorbike engines (with and without catalytic converter).

Product name	Classifications	Description / Features
<b>RAVENOL Professional Engine Cleaner</b> Art.-No.: 1390321		Motor cleaning concentrate against black sludge. Effectively breaks down dirt accumulation and sludge deposits in the engine compartment using intensive-cleaning tensides and removes these effectively when draining used oil.
<b>RAVENOL Racing Brake Fluid R 325+</b> Art.-No.: 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, DOT 5.1, SAE J1703, SAE J1704
<b>RAVENOL DOT 4</b> Art.-No.: 1350601	ISO 4925   FMVSS 116 DOT 4	DOT 4 Brake fluid for all vehicles with ABS-Characteristics. SAE J1704
<b>RAVENOL DOT 4 LV</b> Art.-No.: 1350605	ISO 4925 (6)   FMVSS 116 DOT 4	Brake and Clutch Fluid which conforms to and exceeds the latest ISO 4925 Class 6 standard. Especially suitable for low temperatures. SAE J 1703, SAE J 1704 and ISO 4925 (Class 3, 4 & 6)
<b>RAVENOL DOT 5.1</b> Art.-No.: 1350602	ISO 4925   FMVSS 116 DOT 5.1	DOT 5.1 Brake fluid for all vehicles with ABS-characteristics, that require this specification. SAE J1704

## RAVENOL FUEL ADDITIVES FOR PETROL ENGINES

	Petrol Performance Optimizer Premium	Petrol Octane Booster	Petrol System Cleaner	Petrol Quality Stabilisator
Cleaning	😊	😊	😊😊	
Reduction of exhaust emissions	😊😊			
Corrosion protection	😊		😊	😊😊
Improved lubricity	😊			
Protection against ageing	😊	😊	😊	😊😊
Improved acceleration	😊	😊😊		
Octane booster	😊	😊😊		
Service inspection	😊😊		😊	
Fuel consumption savings	😊😊		😊	😊

## RAVENOL FUEL ADDITIVES FOR DIESEL ENGINES

	Diesel Performance Optimizer Premium	Diesel Cetane Booster	Diesel System Cleaner	Diesel Quality Stabilisator
Cleaning	😊		😊😊	
Reduction of exhaust emissions	😊😊	😊	😊	😊
Corrosion protection	😊			😊😊
Cetane booster	😊	😊😊		
Improved lubricity	😊			
Accelerates soot combustion	😊		😊😊	😊
Protection against ageing	😊			😊😊
Improved acceleration	😊	😊😊		😊
Service inspection	😊😊			
Fuel consumption savings	😊😊	😊	😊	😊

Ability of the RAVENOL additive to deliver the listed performance/characteristic/effect:

😊😊 very good    😊 good    😊 satisfactory    😊 unsuitable



# Accessories and workshop equipment

Product name	Description / Features
<b>RAVENOL Feinmechaniköl</b> Art.-No.: 1350360	Universal fluid for bicycles, sewing machines, household and office applications, locks, tool, etc..
<b>RAVENOL Ölfasspumpe</b> Art.-No.: 1370190	Dispensing telescopic oil hand pump. Fits most drum sizes from 60L – 208L.
<b>RAVENOL Fettpresse</b> <b>RAVENOL Hydraulik-Mandstück</b> Art.-No.: 1370040 Art.-No.: 1370044	Hand operated lever cartridge pump for greases with armor tube. Hydraulic mouthpiece, standard with punched jaws, suitable for tapered grease nipples according to DIN 71412. Fitting on the RAVENOL lever-press. Dimensions: M10 x 1, head -15 mm, height 36mm, width across flats 13.
<b>RAVENOL Düsenrohr/Panzerschlauch</b> Art.-No.: 1370041 Art.-No.: 1370042 30 cm Art.-No.: 1370043 50 cm	Nozzle tube suitable for hand lever pump (Art. 1370040) An amoured hose fitting on the RAVENOL lever-press.
<b>RAVENOL Messkanne</b> Art.-No.: 1370052 500 ml Art.-No.: 1370053 1L Art.-No.: 1370054 2L	Jug cap with measuring bar. Available in 500 ml, 1 L and 2L.
<b>RAVENOL Plastik-Trichter o. Sieb gerade 50 mm, 70 mm, 90 mm, 115 mm, 150 mm</b> Art.-No.: 1370081 50 mm Art.-No.: 1370082 70 mm Art.-No.: 1370083 90 mm Art.-No.: 1370084 115 mm Art.-No.: 1370085 150 mm	Plastic-funnel without sieve is suitable for filling in all kinds of liquids.
<b>RAVENOL Plastik-Trichter m. Messingsieb 195 mm, 235 mm</b> Art.-No.: 1370086 195 mm Art.-No.: 1370087 235 mm	Plastic funnel with brass sieve is suitable for filling in all kinds of liquids
<b>RAVENOL Plastik-Trichter abg. Ausl. + Sieb 160 mm</b> Art.-No.: 1370110	Plastic funnel with angel leak and brass sieve of 160 mm is suitable for filling in all kinds of liquids.
<b>RAVENOL Plastik-Trichter flex. Rohr + Sieb 160 mm</b> Art.-No.: 1370120	Plastic funnel with flexible pipe and brass sieve of 160 mm is suitable for filling in all kinds of liquids.

Product name	Description / Features
<b>RAVENOL Mehrzweckwanne 7l</b> Art.-No.: 1370170	Multi purpose tub for oil change use and many other application fields. With red strainer, usefull spout and eyelet for suspending.
<b>RAVENOL Fluid Syringe with Discharge</b> Art.-No.: 1370181	A transparent plastic oil extractor pump with an oil syringe and a container with a capacity of approx. 1 L. Using this product, oils and other liquids can be extracted out of the attached container and also refilled using pressure.
<b>RAVENOL Utility In &amp; Out Fluid Syringe</b> Art.-No.: 1370180	A transparent oil extractor pump with a plastic oil syringe which can be used to extract and refill oils or other fluids. Capacity: 0.35 L.
<b>Ölverkaufs-Ständer (Metall)</b> Art.-No.: 1370199	Oil display stand (metal) with three levels for different packages like 1L, 4L, 5L, 7L. Easy to assembly, incl. screw wrench. Optional equipment: Art. 1370198 Rollen-Set: a package of four rolls, therefrom two with brakes.
<b>RAVENOL Ölverkaufs-Ständer (Pappe)</b> Art.-No.: 1370200	Wing display in carbon look for motor oil cans. Side walls with plastic profile edges (black). The complete display is coated with high gloss foil. Flexible construction, easy to assemble.
<b>RAVENOL Pappaufsteller Set</b> Art.-No.: 1370202	Set of three cardboard-standups motives: RAVENOL-drum, RAVENOL-can, woman with RAVENOL-can material: carton GD2 230 g print: 4-colored, glossy film
<b>RAVENOL Bag-in-Box-Ständer</b> Art.-No.: 1370220 Art.-No.: 1370221	Metal outer box on castors Powder coated in RAVENOL blue Holding devices for ten or six bag-in-box
<b>RAVENOL Auslaufhahn</b> Art.-No.: 1370310 Art.-No.: 1370330 (Auslaufhahn 3/4 Zoll f. 60 l / 200 l Blechfass)	Dispensing tap, to fill - Chemicals - Disinfectants - Cleaners - Lubricants, engine- and transmission oils - Liquid foods - Water
<b>RAVENOL Druckpumpzerstäuber</b> Art.-No.: 1370351	Plastic pressure sprayer which can be flexibly used for a range of tasks. Maximum capacity 0.9 L at a pressure of 3 bar
<b>RAVENOL Hand-Reinigungstücher</b> Art.-No.: 1360704	Moist hand cleaning wipes with antibacterial effect. Cleans the hands of heavy dirt and protects them with its active care ingredients. The wipes neutralise smells.



# Care products and cleaners

Product name	Description / Features
<b>RAVENOL Kaltreiniger</b> Art.-No.: 1360001	Cleaner for all kind of engines, mechanical parts etc.. Removes all traces of oil, fats, fuel, clutch and brake abrasion.
<b>RAVENOL Kaltreiniger lösemittelfrei</b> Art.-No.: 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.
<b>RAVENOL Hochdruckreiniger-Konzentrat</b> Art.-No.: 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
<b>RAVENOL Hochdruckreiniger Super Konzentrat</b> Art.-No.: 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.
<b>RAVENOL Nitro-Universal-Verdünnung</b> Art.-No.: 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.
<b>RAVENOL Teerentferner</b> Art.-No.: 1360004	Cleaner of tar, fats, light oxidation and stains from car lacquer.
<b>RAVENOL Autoshampoo</b> Art.-No.: 1360005	Universal concentrated liquid detergent excellent for thoroughly cleaning cars.
<b>RAVENOL destilliertes Wasser</b> Art.-No.: 1360010	Special water for antifreeze dilution and use in accumulators.
<b>RAVENOL Glasklar</b> Art.-No.: 1360025	Cleaner for all glass and mirrored surfaces both inside and outside the vehicle. It removes fingerprints, greasy dirt and nicotine quickly and easily. Leaves a fresh fragrance behind.
<b>RAVENOL Bremsenreiniger (flüssig and Spray)</b> Art.-No.: 1360030	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.
<b>RAVENOL Rostlöser MoS2 Spray</b> Art.-No.: 1360009	Contains finely dispersed Molybdenum Disulfide solid lubricant for outstanding water displacement, corrosion inhibition and lubricating properties. Relaxes and loosens seized screw connections, displaces water and moisture from ignition contacts and electrical systems. The penetrating nature effectively prevents squeaks and creaks in all types of moving parts.
<b>RAVENOL Cockpit-Spray</b> Art.-No.: 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.
<b>RAVENOL Carb Reiniger Spray</b> Art.-No.: 1360305	Cleans carburetors in the suction and throttle valve area thoroughly.
<b>RAVENOL Silikon-Spray</b> Art.-No.: 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.
<b>RAVENOL Motorstarter-Spray</b> Art.-No.: 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.

Product name	Description / Features
<b>RAVENOL Zweirad-Reiniger</b> Art.-No.: 1360058	Cleaner of metal and plastic surfaces of motorcycles, mopeds and bikes.
<b>RAVENOL Insekten-Entferner</b> Art.-No.: 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.
<b>RAVENOL Alu-Felgen-Reiniger intensiv</b> Art.-No.: 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.
<b>RAVENOL Velour-Reiniger</b> Art.-No.: 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.
<b>RAVENOL Leder-Reiniger</b> Art.-No.: 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.
<b>RAVENOL Bootsreiniger</b> Art.-No.: 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.
<b>RAVENOL Fogging Oil</b> Art.-No.: 1360035	Anti-corrosion spray formulated to effectively protect the motor, cylinder walls, piston rings and other internal surfaces of engines. Suitable for both inboard and outboard marine engines, generators, lawnmowers, snowmobiles and other engines subject to infrequent use.
<b>RAVENOL Active Foam Cleaner</b> Art.-No.: 1360036	Universal cleaning foam to quickly clean all of your vehicle's surfaces e.g. the bodywork or racing chassis and glass surfaces.
<b>RAVENOL Sommerscheiben-Reiniger</b> Art.-No.: 1360080	Windshield washer for summer period.
<b>RAVENOL Natur-Petroleum</b> Art.-No.: 1350110	Fluid for kerosene/oil lamp.
<b>RAVENOL Handreiniger-Paste</b> Art.-No.: 1360600	Hand cleaner paste. Effective against heavily soiled hands.
<b>RAVENOL Autopolitur</b> Art.-No.: 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.

# Coolant + antifreeze

Product name	Classifications	Description / Features
<b>RAVENOL TTC Concentrate Protect C11</b> Art.-No.: 1410100	PROTECT C11	Coolant of yellow-green colour. It provides effective frost and corrosion protection. Application according mixture table. VW TL 774-C (corresponds to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFU 11; FORD WSS-M97B51-A; IVECO 18-1830; Suzuki.
<b>RAVENOL TTC Premix -40°C Protect C11</b> Art.-No.: 1410105	PROTECT C11	Coolant of yellow-green colour with frost and corrosion protection premixed to -40°C. VW TL 774-C (corresponds to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFU 11; FORD WSS-M97B51-A; IVECO 18-1830; Suzuki.
<b>RAVENOL TTC Hot Climate -15°C Protect C11</b> Art.-No.: 1410106	PROTECT C11	Coolant of yellow-green colour with frost and corrosion protection premixed to -15°C. VW TL 774-C (corresponds to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFU 11; FORD WSS-M97B51-A; IVECO 18-1830; Suzuki.
<b>RAVENOL TTC COLD CLIMATE -60 Protect C11</b> Art.-No.: 1410140	PROTECT C11	Coolant of yellow-green colour with frost and corrosion protection premixed to -60°C. VW TL 774-C (corresponds to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFU 11; FORD WSS-M97B51-A; IVECO 18-1830; Suzuki.
<b>RAVENOL OTC Concentrate Protect C12+</b> Art.-No.: 1410110	PROTECT C12+	Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table. MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Jaguar Land Rover STJLR 651.5003, Jaguar JLM209722, Land Rover STC50529, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9Coolant of lilac colour. It provides highly effective frost and corrosion protection. Application according mixture table, DAF 74002. Included in the list of recommendations of the LAWA for water management requirements for geothermal probes and geothermal collectors. Please follow manufacturer's recommendations.
<b>RAVENOL OTC Premix -40°C Protect C12+</b> Art.-No.: 1410112	PROTECT C12+	Coolant of lilac colour with frost and corrosion protection premixed to -40°C. MAN 324 SNF, DEUTZ DQC CB-14, MB 326.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Jaguar Land Rover STJLR 651.5003, Jaguar JLM209722, Land Rover STC50529,Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.
<b>RAVENOL OTC Hot Climate -15°C Protect C12+</b> Art.-No.: 1410113	PROTECT C12+	Coolant of lilac colour with frost and corrosion protection premixed to -15°C. MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.
<b>RAVENOL OTC COLD CLIMATE -60°C Protect C12+</b> Art.-No.: 1410141	PROTECT C12+	Coolant of lilac colour with frost and corrosion protection premixed to -60°C. MAN 324 SNF, DEUTZ DQC CB-14, MB 325.3, VW/Audi TL 774-D/F (acc. to G12 plus quality), Opel GM 6277M, Opel GM B 040 1065, Ford WSS-M 97 B44D (from model year 1999), FORD 1336797, 1336807, 1365305, Porsche, Mitsubishi 0103044, 0103045, MZ311986, Toyota 08889-00115, 08889-01005, 08889-80014, 08889-80015, 00272-1LLAC, VOLVO 9437650, 9437651, VW G012A8GM1, G012A8FM8, G012A8FM9, DAF 74002.

Product name	Classifications	Description / Features
<b>RAVENOL HTC Concentrate Protect MB325.0</b> Art.-No.: 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 Glaceol RX Type D, Honda OL999-9011. Included in the list of recommendations of the LaWa for water management requirements for geothermal probes and geothermal collectors. Please follow manufacturer's recommendations.
<b>RAVENOL HTC Premix -40°C Protect MB325.0</b> Art.-No.: 1410121	PROTECT MB325.0	All year-round coolant of blue colour with frost and corrosion protection premixed to -40°C. MB 326.0, VW TL 774-C, MB 325.0, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011.
<b>RAVENOL HTC Hot Climate -15°C Protect MB325.0</b> Art.-No.: 1410119	PROTECT MB325.0	All year-round coolant of blue colour with frost and corrosion protection premixed to -15°C. MB 325.0, VW TL 774-C, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011.
<b>RAVENOL HTC COLD CLIMATE -60°C Protect MB325.0</b> Art.-No.: 1410142	PROTECT MB325.0	All year-round coolant of blue colour with frost and corrosion protection premixed to -60°C. MB 325.0, VW TL 774-C, MB A000989082510, ASTM D3306, ASTM D4985, ASTM D4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deere, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT Glaceol RX Type D, Honda OL999-9011.
<b>RAVENOL HJC Concentrate Protect FL22</b> Art.-No.: 1410122	PROTECT FL22	Coolant of green colour. It provides highly effective frost and corrosion protection. Application according mixture table. Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.
<b>RAVENOL HJC Premix -40°C Protect FL22</b> Art.-No.: 1410123	PROTECT FL22	Coolant of green colour with frost and corrosion protection premixed to -40°C. Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.
<b>RAVENOL HJC Hot Climate -15°C Protect FL22</b> Art.-No.: 1410124	PROTECT FL22	Coolant of green colour with frost and corrosion protection premixed to -15°C. Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.

Product name	Classifications	Description / Features
<b>RAVENOL HJC COLD CLIMATE -60°C Protect FL22</b> Art.-No.: 1410143	PROTECT FL22	Coolant of green colour with frost and corrosion protection premixed to -60°C. Mazda FL22 Coolant, Mazda 000077508E20, C122CL005A4X, C100CL005A4X; Ford WSSM97B55 (Motorcraft Specialty Green Engine Coolant), Ford VC-10-A2; 08CLAG010S0 Honda E Coolant; Hyundai Long Life Coolant, Hyundai 07100-00200, 07100-00400, 00232-19010; Nissan Anti-freeze Coolant (L250); Nissan KE90299934, KE90299944; Subaru Coolant 16218; Suzuki Longlife Coolant.
<b>RAVENOL LTC Concentrate Protect C12++</b> Art.-No.: 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, MB 325.6, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, SCANIA TB 1451, VW G012A8GM1, G012A8GM8, G01A8GM9, Chrysler MS.90032, Mopar 68163848AA, Mopar 68163849AA
<b>RAVENOL LTC Premix -40°C Protect C12++</b> Art.-No.: 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, MB 325.6, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, SCANIA TB 1451, VW G012A8GM1, G012A8GM8, G01A8GM9, Chrysler MS.90032, Mopar 68163848AA, Mopar 68163849AA
<b>RAVENOL LTC Hot Climate -15°C Protect C12++</b> Art.-No.: 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, MB 325.6, Porsche (from model year 2007) Boxster, Cayman, Cayenne, Panamera, SCANIA TB 1451, VW G012A8GM1, G012A8GM8, G01A8GM9, Chrysler MS.90032, Mopar 68163848AA, Mopar 68163849AA
<b>RAVENOL LTC Climate -60°C Protect C12++</b> Art.-No.: 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 (corresponds to G12 ++ quality) MAN 324 type Si-OAT, MB 325.5, MB 325.6, Porsche (from construction year 97) Boxster, Cayman, Cayenne, Panamera, SCANIA TB 1451, VW G012A8GM1, G012A8FM8, G012A8GM9, Chrysler MS.90032, Mopar 68163848AA, Mopar 68163849AA
<b>RAVENOL HDT Heavy Duty Truck Cool. Concentrate</b> Art.-No.: 1410115		Ethylene glycol coolant, based on low silicate technology in combination with nitrite and molybdate ASTM D6210 Typ I-FF, ASTM D3306, ASTM D4985, Caterpillar EC-1, Cummins CES 14603, Cummins SB 3666132, Detroit Diesel Corporation 7SE298, TMC RP329 Type A
<b>RAVENOL HDT Heavy Duty Truck Cool. Premix -40°C</b> Art.-No.: 1410116		Prediluted ethylene glycol coolant, based on low silicate technology in combination with nitrite and molybdate to -40°C ASTM D6210 Typ III-FF, ASTM D3306, ASTM D4985, Caterpillar EC-1, Cummins CES 14603, Cummins SB 3666132, Detroit Diesel Corporation 7SE298, TMC RP329 Type A

## Winter chemicals

Product name	Description / Features
<b>RAVENOL Scheibenfrostschutz Konzentrat</b> Art.-No.: 1420100	Screen washer antifreeze concentrate. Appropriate for Polycarbonate windscreens, compatible with varnish, appropriate for the use in fan jets.
<b>RAVENOL Scheibenfrostschutz -20°C</b> Art.-No.: 1420103	Ready to use winter screenwash antifreeze with freeze protection to -20°C with a special pleasant CITRUS perfume, based on alcohols.
<b>RAVENOL Antifrost-Enteiser</b> Art.-No.: 1420217	Antifrost de-icer.
<b>RAVENOL Frostschutz for Druckluftbremsen</b> Art.-No.: 1430208	Air brake system antifreeze.
<b>RAVENOL Fließverbesserer</b> Art.-No.: 1430220	Diesel fuel and fuel oil additive to prevent waxing and plugging at low temperatures. Use according to mixture table.
<b>RAVENOL Türschloss-Enteiser</b> Art.-No.: 1430203	Lock de-icer.





The internationally recognised quality management procedures which are firmly embedded within our company ensure that the quality of our products is of a consistently high standard.

We fulfil the highest standards set by the automotive industry, as demonstrated by our **ISO/TS 16949** certification.

Our **DIN EN ISO 9001** certification also attests to this.

Documentation as well as customer-oriented processes and supplier relationships are of particular significance in this respect.

By the environmental certification according to **DIN EN ISO 14001** we are committed to sustainable use of resources and avoid adverse effects on the environment.

Constant analysis and improvement of processes are a matter of course to us and are carried out for the mutual benefit of ourselves and our customers.

The competence of our testing laboratory is regularly verified, as is proven by our certification in line with **DIN EN ISO/IEC 17025**.

Our consistently high quality standards meet manufacturer requirements as well as the specifications of the automotive industry around the world.

This is confirmed by the international approvals granted by leading OEMs (Original Equipment Manufacturers).

# RAVENOL®

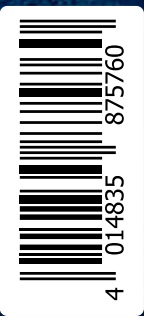
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