



# ROVEL

## PRODUCT CATALOGUE



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PASSENGER CAR

**0W-20****CHROME FE** (Supreme full synthetic ultra fuel economy low ash engine oil)

Ultra fuel economy full synthetic engine oil for passenger cars with extended drain intervals. Specially developed for energy conserving gasoline engines. Ultimate cold starting performance. Fuel economy. Minimum exhaust emissions and maximum engine protection.

**Specifications:** API SN-RC, ILSAC GF-5, GM Dexos 1

Package	Code
12x1 L	082161
4x4 L	082441
20 L	082221
200 L	082801
1000 L	082991

**5W-20****CHROME GF** (Supreme synthetic ultra fuel economy mid SAPS engine oil)

Ultra fuel economy synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for the Ford Eco-boost and Jaguar-Land Rover engines. Ultimate cold starting performance. Low oil consumption. Minimum exhaust emissions and maximum engine protection.

**Specifications:** API SN/CF, ILSAC GF-5, ACEA A1/B1, Ford WSS-M2C948A/B, ST JLR.03.5004

Package	Code
12x1 L	081161
4x4 L	081441
20 L	081221
200 L	081801
1000 L	081991

**5W-30****CHROME VW** (Premium full synthetic mid SAPS engine oil)

Full synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for engines equipped with exhaust after treatment systems, including particulate filters. Suitable for the VW group engines requiring a VW 504.00/507.00 quality level oil.

**Specifications:** API SN, ACEA C3, MB 229.51, BMW LL04, VW504.00/507.00, Porsche C30, VW TL 52195

Package	Code
12x1 L	155161
4x4 L	155441
20 L	155221
200 L	155801
1000 L	155991

**5W-30****CHROME C2** (Premium full synthetic fuel economy mid SAPS engine oil)

Fuel economy full synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for engines equipped with exhaust after treatment systems, including particulate filters. Optimum cold starting. Low oil consumption. Minimum exhaust emissions.

**Specifications:** API SN/CF, ACEA C2, ACEA A1/B1, ACEA A5/B5, Renault RN 0700, PSA B71 2290

Package	Code
12x1 L	150161
4x4 L	150441
20 L	150221
200 L	150801
1000 L	150991

**5W-30****CHROME C3** (Premium full synthetic mid SAPS engine oil)

Full synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for engines equipped with exhaust after treatment systems, including particulate filters. Optimum cold starting. Low oil consumption. Minimum exhaust emissions.

**Specifications:** API SN/CF, ACEA C3, MB 229.51, 229.52, 229.31, 226.5, BMW Longlife 04, Renault RN 0700/710, GM DEXOS 2

Package	Code
12x1 L	100161
4x4 L	100441
20 L	100221
200 L	100801
1000 L	100991



**5W-30****CHROME C4 (Premium full synthetic low SAPS engine oil)**

Premium quality full synthetic engine oil, designed for engines equipped with exhaust after treatment systems. Formulated with the Low Saps additive technology to meet the Renault Group RN 0720 specification. Recommended for the Renault, Mercedes and Nissan models equipped with Renault DPF diesel engines.

**Specifications:** API SN, ACEA C4, MB 226.51, Renault RN0720

Package	Code
12x1 L	154161
4x4 L	154441
20 L	154221
200 L	154801
1000 L	154991

**5W-30****CHROME FS (High performance full synthetic engine oil)**

High performance full synthetic engine oil for passenger cars and light commercial vehicles. It offers optimum anti wear protection and engine cleansing for extended oil drain intervals.

**Specifications:** API SL/CF, ACEA A3/B4, MB 229.3, VW 501.01/502.00/505.00, BMW LL-01, OPEL GM-LL-B-025

Package	Code
12x1 L	101161
4x4 L	101441
20 L	101221
200 L	101801
1000 L	101991

**5W-30****CHROME OEM (Full synthetic engine oil)**

Full Synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for engines equipped with exhaust after treatment systems, including particulate filters. Optimum cold starting . Low oil consumption. Minimum exhaust emissions.

**Specifications:** API SN/CF, ILSAC GF-5

Package	Code
12x1 L	099161
4x4 L	099441
20 L	099221
200 L	099801
1000 L	099991

**5W-40****CHROME C3 (Premium full synthetic mid SAPS engine oil)**

Full synthetic engine oil for passenger cars and light commercial vehicles with extended drain intervals. Specially developed for engines equipped with exhaust after treatment systems, including particulate filters. Optimum cold starting . Low oil consumption. Minimum exhaust emissions.

**Specifications:** API SN/CF, ACEA C3, MB 229.51,229.31, 226.5,BMW Longlife 04, VW 502.00/505.00/505.01, Renault RN 0700/710, GM DEXOS 2, Porsche A40

Package	Code
12x1 L	152161
4x4 L	152441
20 L	152221
200 L	152801
1000 L	152991

**5W-40****CHROME FS (High performance full synthetic engine oil)**

High performance full synthetic engine oil for passenger cars and light commercial vehicles. It offers optimum anti wear protection and engine cleansing for extended oil drain intervals.

**Specifications:** API SN/CF, ACEA A3/B4, MB 229.3, VW 501.01/502.00/505.00,BMW LL-01, OPEL GM-LL-B-025, RENAULT RN 0700/0710

Package	Code
12x1 L	102161
4x4 L	102441
20 L	102221
200 L	102801
1000 L	102991

**5W-50****RACE GT3 (100% Synthetic engine oil)**

Super high-performance synthetic oil for racing and modified engine cars. It offers ultimate wear and sludge protection under extreme performance and racing conditions. It exhibits excellent oxidation resistance at high temperatures and keeps the engine clear.

**Specifications:** API SN

Package	Code
12x1 L	158161
4x4 L	158441
20 L	158221
200 L	158801
1000 L	158991

**10W-40****GOLD XR (High performance synthetic engine oil)**

High performance synthetic engine oil for passenger cars and light commercial vehicles. It offers optimum anti wear protection and engine cleansing for long drain intervals.

**Specifications:** API SN/CF, ACEA A3/B4, MB 229.3, VW 501.01/505.00, BMW LL-01, PSA B71 2300, RENAULT RN 0700/0710

Package	Code
12x1 L	103161
4x4 L	103441
20 L	103221
200 L	103801
1000 L	103991

**10W-40****GOLD AR (High quality synthetic engine oil)**

Synthetic engine oil for passenger cars and light commercial vehicles. It offers anti wear protection, engine cleansing for long periods and low service cost.

**Specifications:** API SL/CF, ACEA A3/B4, MB 229.1, VW 501.01/505.00

Package	Code
12x1 L	105161
4x4 L	105441
20 L	105221
200 L	105801
1000 L	105991

**10W-60****RACE GT2 (100% Synthetic engine oil)**

Super high-performance synthetic oil for racing and modified engine cars. It offers ultimate wear and sludge protection under extreme performance and racing conditions. It exhibits excellent oxidation resistance at high temperatures and keeps the engine clear.

**Specifications:** API SN

Package	Code
12x1 L	109161
4x4 L	109441
20 L	109221
200 L	109801
1000 L	109991

**15W-40****PRIMO (High quality mineral engine oil)**

Multi grade engine oil for passenger cars and light commercial vehicles. It offers anti wear protection, engine cleansing and low service cost.

**Specifications:** API SL/CF, ACEA A3/B4, MB 229.1, VW 501.01/505.00

Package	Code
12x1 L	106161
4x4 L	106441
20 L	106221
200 L	106801
1000 L	106991

**20W-50****PRIMO (Mineral engine oil)**

Multi grade engine oil for passenger cars and light commercial vehicles. It offers anti wear protection, engine cleansing and low service cost.

**Specifications:** API SJ/CF

Package	Code
12x1 L	111161
4x4 L	111441
20 L	111221
200 L	111801
1000 L	111991

**20W-50****SILVER XL (Mineral engine oil)**

Multi grade engine oil for passenger cars and light commercial vehicles. It offers anti wear protection, engine cleansing and low service cost.

**Specifications:** API SL/CF

Package	Code
12x1 L	094161
4x4 L	094441
20 L	094221
200 L	094801
1000 L	094991



HEAVY DUTY /  
AGRI

**5W-30****SILVER LX** (Premium full synthetic mid SAPS Ultra high performance diesel engine oil)

Global top tier full synthetic HDD engine lubricant based on the lower SAPS additive technology. It covers most OEM requirements for engines meeting the latest EURO IV, V and VI exhaust emissions requirements. Designed for ultimate engine protection and cleanliness for extended oil drain intervals.

**Specifications:** API CJ-4, ACEA E4/E6/E7/E9, Volvo VDS-4/  
Renault RLD-3/ Mack EO-O Premium Plus, MB  
228.51/ 228.31, MAN M3677/ M3477/ M3575/  
M3271-1/ M3691, MTU Cat.3.1, Cummins  
CES20081, Deutz DQC IV-10 LA, Detroit Diesel  
93K218, Caterpillar ECF-3, SCANIA Low Ash.

Package	Code
20 L	204221
200 L	204801
1000 L	204991

**10W-30****SILVER FE** (Premium full synthetic mid SAPS Ultra high performance diesel engine oil)

Global top tier full synthetic HDD engine lubricant based on the lower SAPS additive technology. It covers most OEM requirements for engines meeting the latest global exhaust emissions requirements. Designed for ultimate engine protection, oxidation resistance and cleanliness for extended oil drain intervals.

**Specifications:** API CK-4/SN, ACEA E9/E7, Volvo VDS-4/  
Renault RLD-3/ Mack EOS 4.5, MB 228.31,  
MAN M3275, MTU Cat.2.1, Cummins CES  
20086, CES20081, Deutz DQC IV-10 LA,  
Detroit Diesel 93K218, Caterpillar ECF-3, DD  
DFS93K222/93K218, VOLVO VDS 4.5.

Package	Code
20 L	200221
200 L	200801
1000 L	200991

**10W-40****SILVER LX** (Full synthetic mid SAPS Ultra high performance diesel engine oil)

Ultra high performance, lower SAPS synthetic HDD engine lubricant. It covers European and OEM requirements for EURO IV, V and VI exhaust emissions requirements. Designed for engines with DPF, offering ultimate protection and cleanliness for extended oil drain intervals.

**Specifications:** API CI-4, ACEA E4/E6/E7, MB 228.51, MAN  
M 3477/ 3271-1, Deutz DQC III-10 LA, MTU  
Category 3.1, MACK EO-N, RENAULT RLD-2,  
VOLVO VDS-3, Cummins 20076/77

Package	Code
20 L	206221
200 L	206801
1000 L	206991

**10W-40****SILVER FX** (Full synthetic SAPS Ultra high performance diesel engine oil)

Ultra high performance, full SAPS synthetic HDD engine lubricant. Designed for engines with EGR and SCR exhaust after treatment systems, offering ultimate wear protection and cleanliness for extended oil drain intervals. Suitable for Euro III, IV and certain Euro V engines.

**Specifications:** API CI-4, ACEA E4/E7, MB 228.5 MAN M3277,  
MTU TYPE III, VOLVO VDS 3, CUMMINS  
20078, RENAULT RXD/RLD-2, MACK EOM+,  
DEUTZIII-05, GLOBAL DHD-1.

Package	Code
20 L	205221
200 L	205801
1000 L	205991



**10W-40****SILVER V4 (Full Synthetic mid SAPS Ultra high performance diesel engine oil)**

Top tier synthetic mid SAPS, HDD engine oil, designed to meet the VOLVO VDS-4 long drain specification for engines equipped with DPF systems. It offers excellent shoot handling, oxidation and anti-wear protection for extended oil drain intervals.

**Specifications:** API CJ-4, ACEA E7/E9, VOLVO VDS 4, CAT ECF-3, MACK EO-O Premium Plus, CUMMINS CES20081, MB 228.31, MAN M 3575, MTU Cat. 2.1, RENAULT RLD-3, DDC PGOS 93K218.

Package	Code
20 L	209221
200 L	209801
1000 L	209991

**10W-40****SILVER SHC (Synthetic, super high performance HDD engine oil)**

Super high performance, synthetic HDD engine oil designed for heavy duty trucks and off road machinery. Suitable for Euro II,III engines and Euro IV & V without DPF. Offers maximum shoot handling, oxidation and anti-wear protection under severe operating conditions.

**Specifications:** API CI-4/SL, ACEA E7, MB 228.3, MACK EO-N,, MAN M 3275-1, CUMMINS CES 20076/77, RENAULT RLD-2, VOLVO VDS-3, Caterpillar ECF-1a

Package	Code
20 L	203221
200 L	203801
1000 L	203991

**15W-40****TURBO S (Full Synthetic mid SAPS Ultra high performance diesel engine oil)**

Top tier full synthetic mid SAPS, HDD engine oil, designed to meet the VOLVO VDS-4 long drain specification for engines equipped with DPF systems. It offers excellent shoot handling, oxidation and anti-wear protection for extended oil drain intervals.

**Specifications:** API CJ-4/SN, ACEA E7/E9, VOLVO VDS 4 approval, MACK EO-O Premium Plus approval, RENAULT RLD-3 approval, CUMMINS CES20081, MB 228.31, MAN M 3575, DDC PGOS 93K218, Deutz DQC III-10 LA, JASO DH-2, MTU Cat. 2.1, CAT ECF-3, Scania Low Ash.

Package	Code
20 L	207221
200 L	207801
1000 L	207991

**15W-40****TURBO X-TREME (Super high performance HDD engine oil)**

Super high performance, HDD engine oil designed for heavy duty trucks and off road machinery. Suitable for Euro II,III engines and Euro IV & V without DPF. Offers maximum shoot handling, oxidation and anti-wear protection under severe operating conditions.

**Specifications:** API CI-4/SL, ACEA E7, ACEA A3/B4, MB 228.3, MACK EO-N,, MAN M 3275-1, CUMMINS CES 20076/77, RENAULT RLD-2, VOLVO VDS-3, Caterpillar ECF-2

Package	Code
4x4 L	202441
20 L	202221
200 L	202801
1000 L	202991

**15W-40****TURBO CHARGE (High performance multi-grade engine lubricant)**

High performance multi-grade HDD engine lubricants, designed for use in a wide range of Euro I,II & III diesel engines, both normally aspirated and turbo charged. Also suitable for gasoline engines. A low cost solution for mixed fleet applications.

**Specifications:** API CH-4/SJ, ACEA E5-02 (quality), ACEA A3/B3, MAN M 3275-1, MB 228.3, VOLVO VDS-2 (quality), MTU Cat.2.

Package	Code
20 L	216221
200 L	216801
1000 L	216991

**15W-40****TURBO HD (High performance multi-grade engine lubricant)**

High quality multi grade HDD engine oils designed to offer protection and engine cleanliness in older vehicles operating under normal conditions.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.1  
MTU Cat.1, MAN 270/271 VOLVO VDS

Package	Code
12x1 L	213161
4x4 L	213441
20 L	213221
200 L	213801
1000 L	213991

**20W-50****ACTRO SS (High performance multi-grade engine lubricant)**

High performance multi-grade HDD engine lubricants, designed for use in a wide range of Euro I,II & III diesel engines, both normally aspirated and turbo charged. Also suitable for gasoline engines. A low cost solution for mixed fleet applications.

**Specifications:** API CH-4/SJ, ACEA E5-02 (quality), ACEA A3/B3, MAN M 3275-1, MB 228.3, VOLVO VDS-2 (quality), MTU Cat.2

Package	Code
20 L	217221
200 L	217801
1000 L	217991

**20W-50****PRIMO HD (High quality multi grade engine oil)**

High quality multi grade HDD engine oils designed to offer protection and engine cleanliness in older vehicles operating under normal conditions.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.1  
MTU Cat.1, MAN 270/271 VOLVO VDS

Package	Code
12x1 L	212161
4x4 L	212441
20 L	212221
200 L	212801
1000 L	212991

**10W****S-3 (High quality mono-grade engine oil)**

High quality mono-grade lubricants, suitable for diesel and gasoline engines, transmissions, final drives and hydraulic systems.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.0  
MTU Cat.1, MAN 270, VOLVO VDS, CAT TO-2,  
Alisson C-4.

Package	Code
20 L	224221
200 L	224801
1000 L	224991

**20W-20****S-3 (High quality mono-grade engine oil)**

High quality mono-grade lubricants, suitable for diesel and gasoline engines, transmissions, final drives and hydraulic systems.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.0  
MTU Cat.1, MAN 270, VOLVO VDS, CAT TO-2,  
Alisson C-4.

Package	Code
20 L	223221
200 L	223801
1000 L	223991

**30W****S-3 (High quality mono-grade engine oil)**

High quality mono-grade lubricants, suitable for diesel and gasoline engines, transmissions, final drives and hydraulic systems.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.0  
MTU Cat.1, MAN 270, VOLVO VDS, CAT TO-2,  
Alisson C-4.

Package	Code
20 L	221221
200 L	221801
1000 L	221991

**40W****S-3 (High quality mono-grade engine oil)**

High quality mono-grade lubricants, suitable for diesel and gasoline engines, transmissions, final drives and hydraulic systems.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.0  
MTU Cat.1, MAN 270, VOLVO VDS, CAT TO-2,  
Alisson C-4.

Package	Code
20 L	222221
200 L	222801
1000 L	222991

**50W****S-3 (High quality mono-grade engine oil)**

High quality mono-grade lubricants, suitable for diesel and gasoline engines, transmissions, final drives and hydraulic systems.

**Specifications:** API CF-4/SJ, ACEA E2-96 quality, MB 228.0  
MTU Cat.1, MAN 270, VOLVO VDS, CAT TO-2,  
Alisson C-4.

Package	Code
20 L	225221
200 L	225801
1000 L	225991

**20W-50****BASIC (Multi grade diesel engine oil)**

Mineral multi-grade engine oil for gasoline and diesel engines, operating under moderate conditions.

Package	Code
12x1 L	118161
4x4 L	118441
20 L	118221
200 L	118801

**Specifications:** API SF/CD, MIL-L-2104 D/46152B.

**BASIC 10****Mono grade diesel engine oil**

Mono-grade lubricants, suitable for diesel and gasoline engines operating under moderate conditions. Also suitable for transmissions, and hydraulic systems.

**Specifications:** API SF/CD, MIL-L-2104 D/46152B, CAT TO-2,  
Allison C-4.

Package	Code
12x1 L	115161
4x4 L	115441
20 L	115221
200 L	115801
1000 L	115991

## BASIC 30

### Mono grade diesel engine oil

Mono-grade lubricants, suitable for diesel and gasoline engines operating under moderate conditions. Also suitable for transmissions, and hydraulic systems.

**Specifications:** API SF/CD, MIL-L-2104 D/46152B, CAT TO-2, Allison C-4.

Package	Code
12x1 L	116161
4x4 L	116441
20 L	116221
200 L	116801
1000 L	116991

## BASIC 40

### Mono grade diesel engine oil

Mono-grade lubricants, suitable for diesel and gasoline engines operating under moderate conditions. Also suitable for transmissions, and hydraulic systems.

**Specifications:** API SF/CD, MIL-L-2104 D/46152B, CAT TO-2, Allison C-4.

Package	Code
12x1 L	117161
4x4 L	117441
20 L	117221
200 L	117801
1000 L	117991

## BASIC 50

### Mono grade diesel engine oil

Mono-grade lubricants, suitable for diesel and gasoline engines operating under moderate conditions. Also suitable for transmissions, and hydraulic systems.

**Specifications:** API SF/CD, MIL-L-2104 D/46152B, CAT TO-2, Allison C-4.

Package	Code
12x1 L	120161
4x4 L	120441
20 L	120221
200 L	120801
1000 L	120991

## GEO SAE 30

### Low ash, mono-grade, natural gas engine oil

High performance, low ash, mono-grade engine lubricant, specially designed for spark-ignited natural gas engines. It provides excellent detergency and dispersancy, oxidation and rust inhibition.

**Specifications:** API CC

Package	Code
20 L	230221
200 L	230801
1000 L	230991

## CF-2 SAE 40

### Low ash two stroke diesel engine oil

Low sulphated ash engine oil specially designed for two-stroke diesel engines, naturally aspirated and turbo charged.

**Specifications:** API CF-2/CF/SF, Detroit Diesel 7SE2709505

Package	Code
20 L	244221
200 L	244801
1000 L	244991



**TO-4 10W****Mono-grade off-road transmission lubricant**

Mono-grade lubricants specially designed for use in hydraulic systems, power shift transmissions, differentials, clutches and final drives of Caterpillar and Komatsu off-road machinery.

**Specifications:** CAT TO-4 & TO-2, COMATSU, ALLISON C-4, API CF-2

Package	Code
20 L	226221
200 L	226801
1000 L	226991

**TO-4 30****Mono-grade off-road transmission lubricant**

Mono-grade lubricants specially designed for use in hydraulic systems, power shift transmissions, differentials, clutches and final drives of Caterpillar and Komatsu off-road machinery.

**Specifications:** CAT TO-4 & TO-2, COMATSU, ALLISON C-4, API CF-2

Package	Code
20 L	227221
200 L	227801
1000 L	227991

**TO-4 50****Mono-grade off-road transmission lubricant**

Mono-grade lubricants specially designed for use in hydraulic systems, power shift transmissions, differentials, clutches and final drives of Caterpillar and Komatsu off-road machinery.

**Specifications:** CAT TO-4 & TO-2, COMATSU, ALLISON C-4, API CF-2

Package	Code
20 L	228221
200 L	228801
1000 L	228991

**AGRI TUO 20W-40****Multi-grade universal tractor lubricant STOU**

Multi-grade universal lubricants for agricultural tractors (STOU), specially designed for use in engine, gear box, differential, hydraulic system and wet brakes.

**Specifications:** API CG-4/SF, API GL-4, ACEA E3-96 (quality), JOHN DEERE J 27, MASSEY FERGUSON CMS M 1144, 1145& 1139, NEW HOLLAND 82009201/2/3

Package	Code
20 L	231221
200 L	231801
1000 L	231991

**AGRI TUO 15W-40****Multi-grade universal tractor lubricant STOU**

Multi-grade universal lubricants for agricultural tractors (STOU), specially designed for use in engine, gear box, differential, hydraulic system and wet brakes.

**Specifications:** API CG-4/SF, API GL-4, ACEA E3-96 (quality), JOHN DEERE J 27, MASSEY FERGUSON CMS M 1144, 1145& 1139, NEW HOLLAND 82009201/2/3

Package	Code
20 L	232221
200 L	232801
1000 L	232991

**AGRI TUO 10W-30****Multi-grade universal tractor lubricant STOU**

Multi-grade universal lubricants for agricultural tractors (STOU), specially designed for use in engine, gear box, differential, hydraulic system and wet brakes.

**Specifications:** API CG-4/SF, API GL-4, ACEA E3-96 (quality), JOHN DEERE J 27, MASSEY FERGUSON CMS M 1144, 1145& 1139, NEW HOLLAND 82009201/2/3

Package	Code
20 L	233221
200 L	233801
1000 L	233991

**AGRI TRANSMISSION 10W-30****UTTO tractor transmission fluid**

High quality universal tractor transmission fluids (UTTO), designed for use in hydraulic systems, power-shift transmissions and rear axles with or without immersed brakes of all agricultural machinery, except hypoid gear applications.

**Specifications:** API GL-4, John Deere J20C, Case New Holland MAT 3525/3526, Ford WSS M2C 86B/C, M2C 134D, Massey Ferguson M 1145, 1143, 1141, 1138, 1135, Cat TO-2, ZF TE-ML-03E/05F.

Package	Code
20 L	531221
200 L	531801
1000 L	531991

**AGRI TRANSMISSION 20W-30****UTTO tractor transmission fluid**

High quality universal tractor transmission fluids (UTTO), designed for use in hydraulic systems, power-shift transmissions and rear axles with or without immersed brakes of all agricultural machinery, except hypoid gear applications.

**Specifications:** API GL-4, John Deere J20C, Case New Holland MAT 3525/3526, Ford WSS M2C 86B/C, M2C 134D, Massey Ferguson M 1145, 1143, 1141, 1138, 1135, Cat TO-2, ZF TE-ML-03E/05F

Package	Code
20 L	533221
200 L	533801
1000 L	533991





MOTORCYCLE

**10W-40****MOTO 4T (Premium full synthetic motorcycle engine oil)**

Premium full synthetic four-stroke motorcycle oil, designed for high output engines. It offers optimum clutch performance, high lubricity and gearbox wear protection.

**Specifications:** API SL, JASO MA2

Package	Code
12x1 L	415161
20 L	415221
200 L	415801
1000 L	415991

**10W-40****MOTO 4T (Synthetic motorcycle engine oil)**

Synthetic four-stroke motorcycle oil, designed for modern engines and large-sized scooters. It offers optimum clutch performance, high lubricity and gearbox wear protection.

**Specifications:** API SL, JASO MA2

Package	Code
12x1 L	418161
20 L	418221
200 L	418801
1000 L	418991

**15W-50****MOTO 4T (Synthetic motorcycle engine oil)**

Synthetic four-stroke motorcycle oil, designed for modern engines and large-sized scooters. It offers optimum clutch performance, high lubricity and gearbox wear protection.

**Specifications:** API SL, JASO MA2

Package	Code
12x1 L	416161
20 L	416221
200 L	416801
1000 L	416991

**20W-50****(Mineral motorcycle engine oil)**

High quality, multi-grade, four-stroke motorcycle oil. It offers engine protection and reliable clutch performance.

**Specifications:** API SJ, JASO MA2

Package	Code
12x1 L	414161
20 L	414221
200 L	414801
1000 L	414991

**MOTO SYN MIX PLUS****synthetic two-stroke engine oil**

Premium quality, synthetic two-stroke engine oil designed for use in high demand engines. It offers smoke reduction, deposit control and exhaust blocking prevention. Ideal for 2-stroke racing motorbikes, chainsaws and lawn cutters. Dilution ratio 1:50

Package	Code
12x1 L	407161
20 L	407221
200 L	407801
1000 L	407991

**MOTO SYN MIX****Full synthetic 2-stroke engine oil**

Synthetic two-stroke engine lubricant designed for use in high demand engines. It offers smoke reduction, deposit control and exhaust blocking prevention. Suitable for 2-stroke motorcycles, chainsaws and lawn cutters. Dilution ratio 1:50

Package	Code
12x1 L	413161
20 L	413221
200 L	413801
1000 L	413991



**MOTO MIX 2T****Mineral 2-stroke engine oil**

Mineral two-stroke engine lubricant for low performance and low capacity engines.

Dilution ratio 1:25 - 1:50

Package	Code
12x1 L	411161
20 L	411221
200 L	411801
1000 L	411991

**CHAIN****Non-drip chain lubricant**

Special non-dripping oil designed for the lubrication of the chain and guide bar of chainsaws. It protects from wear and rust. It's high tackiness performance prevents dripping and high oil consumption.

Package	Code
12x1 L	406161
20 L	406221
200 L	406801
1000 L	406991

**OUTBOARD ENGINE LUBRICANTS****10W-40****MARINA 4T FCW (Full Synthetic 4-stroke outboard engine oil)**

Full synthetic multi-grade engine lubricant specially designed for the new generation four-stroke outboard marine engines. Excellent corrosion protection in extreme marine conditions. Superior anti-wear protection in high and low speeds.

Package	Code
12x1 L	408161
4x4 L	408441
20 L	408221
200 L	408801
1000 L	408991

**TCW-3****MARINA 2T (Synthetic 2-stroke outboard engine oil)**

High performance, ashless, synthetic two-stroke engine lubricant, designed for outboard marine engines and jet skis with injection type lubricating systems or pre-mix. Excellent deposit control and wear protection. Keeps engine and spark plugs clean. Red colored.

Package	Code
12x1 L	412161
4x4 L	412441
20 L	412221
200 L	412801
1000 L	408991

**80W-90****MARINA GEAR (Marine outboard gear oil)**

High performance, extreme pressure, multi-grade gear oil designed for the gear boxes and stern drives of outboard and inboard engines. It offers excellent sea water corrosion resistance, load carrying performance and anti-wear protection.

Package	Code
12x1 L	461161
20 L	461221
200 L	461801
1000 L	461991





MARINE

## 10W-40

### MARINA 4T FCW (Full synthetic 4-stroke outboard engine oil)

Full synthetic multi-grade engine lubricant specially designed for the new generation four-stroke outboard marine engines. Excellent corrosion protection in extreme marine conditions. Superior anti-wear protection in high and low speeds.

Package	Code
12x1 L	408161
4x4 L	408441
20 L	408221
200 L	408801
1000 L	408991

## TCW-3

### MARINA 2T (Synthetic 2-stroke outboard engine oil)

High performance, ashless, synthetic two-stroke engine lubricant, designed for outboard marine engines and jet skis with injection type lubricating systems or pre-mix. Excellent deposit control and wear protection. Keeps engine and spark plugs clean. Red colored.

Package	Code
12x1 L	412161
4x4 L	412441
20 L	412221
200 L	412801
1000 L	412991

## 80W-90

### MARINA GEAR (Marine outboard gear oil)

High performance, extreme pressure, multi-grade gear oil designed for the gear boxes and stern drives of outboard and inboard engines. It offers excellent sea water corrosion resistance, load carrying performance and anti-wear protection.

Package	Code
12x1 L	461161
20 L	461221
200 L	461801
1000 L	461991

## MARINA 430

Mineral lubricants for crankcase lubrication in cross-head marine engines.

**Specifications:** SAE 30

Package	Code
20 L	421221
200 L	421801
1000 L	421991

## MARINA 440

Mineral lubricants for crankcase lubrication in cross-head marine engines.

**Specifications:** SAE 40

Package	Code
20 L	422221
200 L	422801
1000 L	422991

## MARINA 1230

High quality lubricants for trunk piston engines operating on distillate fuels and light fuel blends.

**Specifications:** API CF, TBN 12

Package	Code
20 L	431221
200 L	431801
1000 L	431991

## MARINA 1240

High quality lubricants for trunk piston engines operating on distillate fuels and light fuel blends.

**Specifications:** API CF, TBN 12

Package	Code
20 L	441221
200 L	441801
1000 L	441991

## MARINA 1250

High quality lubricants for trunk piston engines operating on distillate fuels and light fuel blends.

**Specifications:** API CF, TBN 12

Package	Code
20 L	451221
200 L	451801
1000 L	451991

**MARINA 3030**

High quality lubricants for trunk piston engines operating on up to 2% sulphur fuels.

**Specifications:** API CF, TBN 30

Package	Code
20 L	432221
200 L	432801
1000 L	432991

**MARINA 3040**

High quality lubricants for trunk piston engines operating on up to 2% sulfur fuels.

**Specifications:** API CF, TBN 30

Package	Code
20 L	442221
200 L	442801
1000 L	442991

**MARINA 4050**

High quality, high alkalinity mineral lubricants for cylinder lubrication in cross-head marine engines operating on high sulfur content fuels.

**Specifications:** TBN 40

Package	Code
20 L	452221
200 L	452801
1000 L	452991

**MARINA 5070**

High quality, high alkalinity mineral lubricants for cylinder lubrication in cross-head marine engines operating on high sulfur content fuels.

**Specifications:** TBN 70

Package	Code
20 L	453221
200 L	453801
1000 L	453991

**MARINA ISO 100**

High performance oils for stern tube lubrication. They emulsify contaminating water and offer corrosion protection, seal compatibility and effective lubrication.

Package	Code
20 L	449221
200 L	449801
1000 L	449991

**MARINA ISO 320**

High performance oils for stern tube lubrication. They emulsify contaminating water and offer corrosion protection, seal compatibility and effective lubrication.

Package	Code
20 L	450221
200 L	450801
1000 L	450991

**MARINA ISO 460**

High performance oils for stern tube lubrication. They emulsify contaminating water and offer corrosion protection, seal compatibility and effective lubrication.

Package	Code
20 L	448221
200 L	448801
1000 L	448991







*TRANSMISSION FLUID*

**ATF 7000 MF****Full synthetic multi-vehicle 6+ speed ATF**

High performance, low viscosity, full synthetic multi-vehicle ATF, specially designed for modern 6+ speed transmissions. It offers smooth gear shifting, anti-shudder durability, oxidation stability and extended transmission life.

**Specifications:** Ford ML-V, GM D VI, Hyundai KIA SP-IV, NISSAN Matic S, Toyota WS, Honda ATF Z-1, MB 236.14

Package	Code
12x1 L	5103161
20 L	5103221
200 L	5103801
1000 L	5103991

**ATF CVT****Full synthetic Automatic Transmission Fluid for CVT transmissions.**

High performance, full synthetic ATF specially designed for continuously variable transmissions (CVT), operating with steel belts or chains. It offers optimum anti-wear protection and stable friction performance.

**Specifications:** TOYOTA TC, NISSAN NS-2, MITSUBISHI CVTF-J1, MB 236.20, Ford CVT-30, VW G 052 529

Package	Code
12x1 L	5193161
20 L	5193221
200 L	5193801
1000 L	5193991

**ATF 9000 HD****Synthetic Heavy Duty Automatic Transmission Fluid**

High performance, synthetic ATF designed for Heavy Duty transmissions of buses and trucks. It is also suitable for passenger cars requiring a high viscosity ATF. It offers optimum performance and covers the requirements of most OEM's.

**Specifications:** ZF-TE-ML 03D/14B, Voith H55.6335, MAN 339 Type V1/Type Z1, MB 236.9, Volvo 97340,97341, Allison C-4, Ford M, GM Dexron III H+.

Package	Code
12x1 L	515161
20 L	515221
200 L	515801
1000 L	515991

**ATF 3000 DEX III****Synthetic Automatic Transmission Fluid.**

Synthetic transmission fluid suitable for most automatic transmissions, clutches and steering systems in passenger cars, commercial trucks and off-road machinery. It offers smooth performance and oxidation stability.

**Specifications:** GM DEXRON III G/H, ALLISON C-4, MERCON, VOITH G 607, MB 236.9, ZF-TE-ML 14

Package	Code
12x1 L	522161
20 L	522221
200 L	522801
1000 L	522991

**ATF 2000 DEX II**

Automatic transmission fluid suitable for transmissions requesting a Dexron II quality level, clutches and steering systems in passenger cars, commercial trucks and off-road machinery.

**Specifications:** GM DEXRON II D, ALLISON C-4, CAT TO-2, VOITH, MB 236.7, RENK, ZF-TE-ML 09/11/14, MAN 339-D

Package	Code
12x1 L	521161
20 L	521221
200 L	521801
1000 L	521991

**ATF 3000tt DEX III Tiptronic****Synthetic Automatic Transmission Fluid.**

Synthetic transmission fluid suitable for Tiptronic transmissions, clutches and steering systems in passenger cars, commercial trucks and off-road machinery. It offers smooth performance and oxidation stability.

Package	Code
12x1 L	523161
20 L	523221
200 L	523801
1000 L	523991





# GEAR OIL



**80W-90****SHIFT GL-4 (Multi-grade manual transmission lubricant)**

Multi-grade gear oil for synchronized manual transmissions of passenger cars and commercial vehicles. It offers anti-wear, anti-rust and oxidation protection.

**Specifications:** API GL-4, MIL-L-2105

Package	Code
12x1 L	624161
4x4 L	624441
20 L	624221
200 L	624801
1000 L	624991

**75W-80****SHIFT MTF (Full synthetic multi-vehicle manual transmission lubricant)**

Full synthetic multi-vehicle manual transmission fluid, specially designed for European and Asian vehicles. It offers superior bearing and gear protection, cleanliness, low temperature performance and robust corrosion protection.

**Specifications:** API GL-4. SFU: Mercedes-Benz, VW group, Fiat, Ford, Honda, Hyundai, Nissan, Peugeot, Citroen, Renault, Rover, Jeep, Opel, Toyota, Porsche, Suzuki, Volvo.

Package	Code
12x1 L	649161
4x4 L	649441
20 L	649221
200 L	649801
1000 L	649991

**75W****SHIFT MT (Full synthetic ultra fuel-economy transmission fluid)**

Full synthetic, ultra fuel economy manual transmission fluid for passenger cars. It offers optimum operation under high loads, fuel economy, superior viscosity-temperature behavior and protection against wear, corrosion and sludge formation.

**Specifications:** API GL-4. SFU: VW TL 726, VW TL 525 12

Package	Code
12x1 L	648161
4x4 L	648441
20 L	648221
200 L	648801
1000 L	648991

**75W140****SHIFT LS (Full synthetic LS hypoid differential lubricant)**

Full synthetic, high performance gear lubricant for trans-axes and hypoids with and without LS performance, operating under high loads. It offers resistance to shear and aging, thermal stability and outstanding wear protection. Suitable for long drain intervals.

**Specifications:** API GL-5 LS Scania STO:1 SFU:Ford M2C-192A, BMW, Chrysler, GM.

Package	Code
20 L	647221
200 L	647801
1000 L	647991

**75W-90****SHIFT MTL (Synthetic manual transmission lubricant)**

Synthetic gear lubricant for synchronized manual transmissions of commercial vehicles and passenger cars. It offers excellent gear engagement, wear protection, fuel economy and long drain intervals.

**Specifications:** API GL-4, MB 235.5, ZF TE-ML 02D/08, MAN 341 Z1 &Z2, IVECO, EATON, API GL4/MT1

Package	Code
12x1 L	642161
4x4 L	642441
20 L	642221
200 L	642801
1000 L	642991



**75W-80****SHIFT VRT (Synthetic manual transmission lubricant)**

Synthetic manual transmission lubricant, designed for use in the PSA group gearboxes. It offers excellent wear protection, EP performance and fuel economy for long drain intervals.

**Specifications:** API GL-4/GL-5/MT 1 MIL-L-2105 C&D, PSA (Peugeot, Citroen).

Package	Code
20 L	641221
200 L	641801
1000 L	641991

**75W-90****SHIFT GL-5 (Synthetic gear lubricant)**

Synthetic transmission and axle lubricant for transmissions requesting GL-5 performance level, hypoid gears, drive axles and final drives. It offers wear protection, optimum performance at low and elevated temperatures, and thermal stability for long drain intervals.

**Specifications:** API GL-5/MT 1 MIL-L-2105 D, MACK GO-J

Package	Code
20 L	646221
200 L	646801
1000 L	646991

**85W-90****SHIFT LS (Limited-slip gear lubricant)**

Multi-grade gear oil for axles with differentials equipped with limited slip disks.

**Specifications:** GL-5 LS, MIL-L-2105 D, ZF TE-ML-05C/12C/16E

Package	Code
12x1 L	651161
4x4 L	651441
20 L	651221
200 L	651801
1000 L	651991

**80W-90****SHIFT GL-5 (High performance multi-grade hypoid gear lubricant)**

Multi-grade gear oils for trans-axles and hypoids operating under high loads. It offers resistance to shear and outstanding wear protection. Suitable for highly loaded gears.

**Specifications:** API GL-4/GL-5/MT-1, MIL-L-2105 D

Package	Code
12x1 L	631161
4x4 L	631441
20 L	631221
200 L	631801
1000 L	631991

**85W-140****SHIFT GL-5 (High performance multi-grade hypoid gear lubricant)**

Multi-grade gear oils for transaxles and hypoids operating under high loads. It offers resistance to shear and outstanding wear protection. Suitable for highly loaded gears.

**Specifications:** API GL-4/GL-5/MT-1, MIL-L-2105 D

Package	Code
12x1 L	632161
4x4 L	632441
20 L	632221
200 L	632801
1000 L	632991

**80W****SHIFT GL-1 (Mono-grade gear lubricant)**

Mono-grade gear oils for gear boxes and differentials operating at mild load/low speed conditions.

**Specifications:** API GL-1

Package	Code
12x1 L	611161
4x4 L	611441
20 L	611221
200 L	611801
1000 L	611991

**90W****SHIFT GL-1 (Mono-grade gear lubricant)**

Mono-grade gear oils for gear boxes and differentials operating at mild load/low speed conditions.

**Specifications:** API GL-1

Package	Code
12x1 L	612161
4x4 L	612441
20 L	612221
200 L	612801
1000 L	612991

**140W****SHIFT GL-1 (Mono-grade gear lubricant)**

Mono-grade gear oils for gear boxes and differentials operating at mild load/low speed conditions.

**Specifications:** API GL-1

Package	Code
12x1 L	613161
4x4 L	613441
20 L	613221
200 L	613801
1000 L	613991

**75W-90****SHIFT TDF (Full synthetic total driveline lubricant)**

Premium full synthetic, long life total driveline fluid for heavy duty manual transmissions and axles. Suitable for use in commercial vehicles, passenger cars, buses and construction machinery. It provides ultimate protection and fuel economy.

**Specifications:** API GL4/GL-5/MT-1, MB 235.6, MIL-PRF-2105D, ZF TE-ML 02B, 05B, 07A, 08, 12B, 16F, 17B, MAN 341 Z2, MAN 342 M2, Volvo 1273.10, Iveco, Eaton

Package	Code
12x1 L	643161
4x4 L	643441
20 L	643221
200 L	643801
1000 L	643991

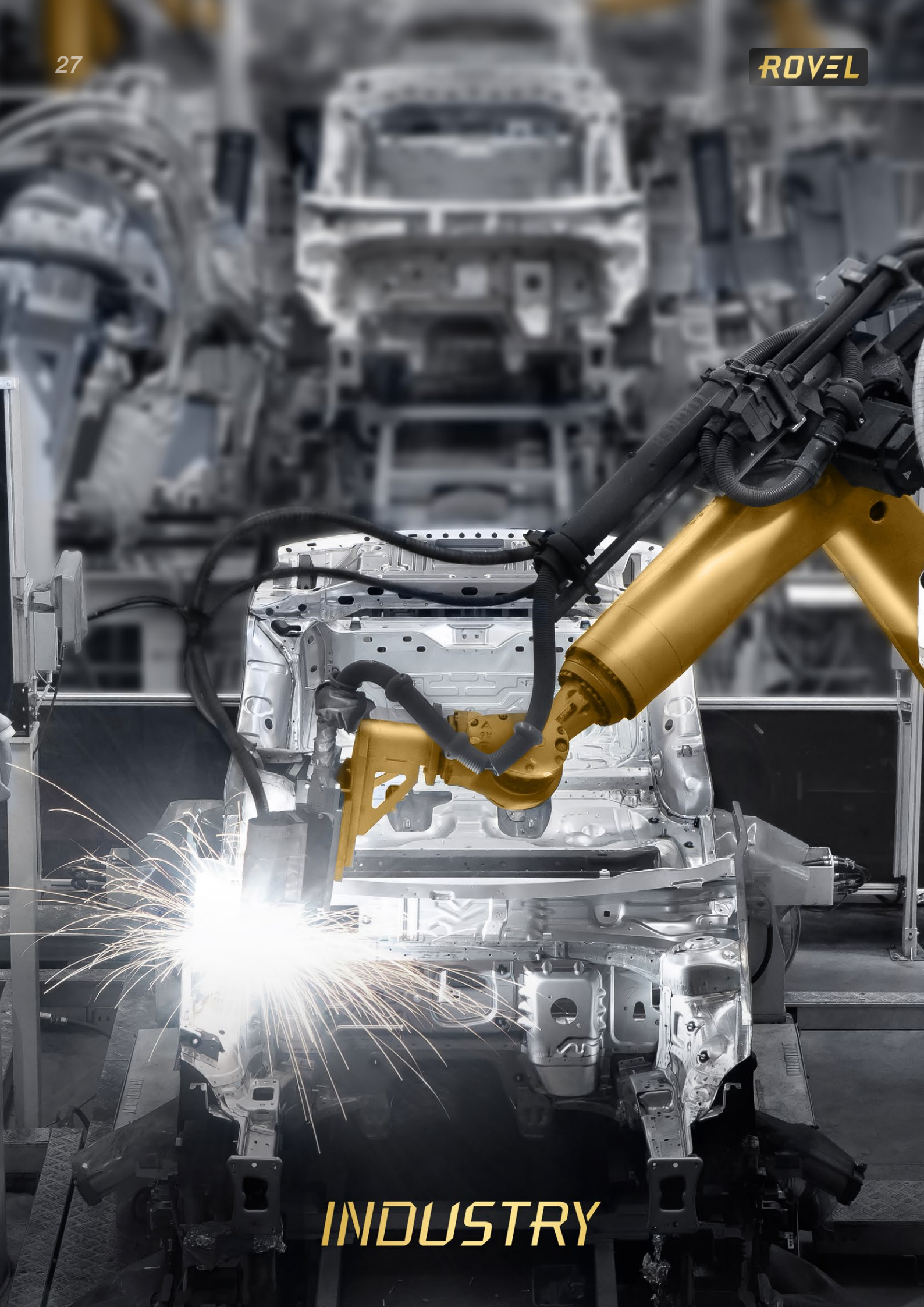
**75W-80****SHIFT LD (Full synthetic commercial transmission lubricant)**

Premium full synthetic transmission fluid, designed for use in synchronized manual and automatic transmissions of modern commercial vehicles using ZF transmissions including those fitted with intertarders. It offers excellent syncromesh performance, under high loads and high temperatures for long drain intervals. Ideal for mixed fleets.

**Specifications:** API GL-4, MAN 341 E3/Z-4, ZF TE-ML 01L/02L/08/16K, Volvo 97305, Renault, Eaton, DAF, IVECO

Package	Code
20 L	644221
200 L	644801
1000 L	644991





INDUSTRY



## HYDRAULIC SYSTEMS

### HYD

#### High performance hydraulic fluid

High performance hydraulic fluids designed to provide ultimate protection and performance in most industrial, marine and mobile equipment applications. They resist thermal or mechanical breakdown and protect the mechanical parts from wear and deposit formation. They are ideal for hydraulic power systems operating under high pressure

Specifications: ISO 6743/4 HM. DIN 51524 Part 2 HLP, AFNOR:NFE-48603 HM, Denison HF-1/HF-2, Sperry Vickers I-286-S.	Package	Code					
	ISO	10	22	32	46	68	100
	20 L	719221	710221	711221	712221	713221	714221
	200 L	719801	710801	711801	712801	713801	714801
	1000 L	719991	710991	711991	712991	713991	714991

### SPECIAL HYD

#### High performance, high VI, hydraulic fluid.

High performance, high viscosity index hydraulic fluids designed to provide excellent viscosity control under severe mechanical stress and temperature variations, superior anti-wear protection and performance in most mobile, marine and industrial equipment operating in wide temperature ranges.

Specifications: ISO 6743/4 HV. DIN 51524 Part III HV, AFNOR: NFE-48603 HV, Denison HF-0, US STEEL 136.	Package	Code					
	ISO	15	22	32	46	68	100
	20 L	726221	720221	721221	722221	723221	724221
	200 L	726801	720801	721801	722801	723801	724801
	1000 L	726991	720991	721991	722991	723991	724991

### HYD XP 32

#### High performance, EP hydraulic fluid.

Special EP hydraulic fluid, specially designed for hydro-kinetic transmission units with integral reduction gears. It offers high load carrying properties, excellent oxidation resistance, corrosion protection and foam control.

Specifications: DIN 51534 HLP, Voith turbo.	Package	Code
	20 L	728221
	200 L	728801
	1000 L	728991

### HYD ZF

#### High performance, zinc-free hydraulic fluid.

High performance, zinc-free hydraulic fluids designed to provide ultimate protection and performance in most industrial, marine and mobile equipment applications. They resist thermal or mechanical breakdown and protect the mechanical parts from wear and deposit formation. They are ideal for hydraulic power systems operating under high pressure.

Specifications: ISO 6743/4 HM. DIN 51524 Part 2 HLP, AFNOR:NFE-48603 HM, Denison HF-0/HF-2, Sperry Vickers I-286-S, US Steel 136.	Package	Code	
	ISO	46	68
	20 L	716221	718221
	200 L	716801	718801
	1000 L	716991	718991

### HYD HFC 46

#### Fire resistant, poly-glycol based hydraulic fluid.

Superior quality, water glycol based fluid for use in hydraulic systems where fire resistance is a high priority. It is ideal for use in the steel, aluminum and die-casting industries. Exhibits high shear stability, corrosion resistance and seal compatibility.

Specifications: ISO L-HFC	Package	Code
	20 L	729221
	200 L	729801
	1000 L	729991

# COMPRESSORS

## SYNCOMP DE

**Synthetic ester based air compressor lubricant.**

High performance synthetic ester-based air compressor lubricant designed for high pressure reciprocating compressors, offering superior anti-wear protection, fast water separation and system efficiency. It is ideal for air breathing systems.

**Specifications:** DIN 51506 VDL, ISO/DP 6521-L-DAB-medium & severe duty, EN 12021

Package	Code	
ISO	100	68
20 L	774221	776221
200 L	774801	776801
1000 L	774991	776991

## SYNCOMP PG

**Synthetic, polyglycol-based lubricant for gas compressors.**

Synthetic, polyglycol-based lubricant for cylinder lubrication of gas compressors. Suitable for reciprocating compressors operating with LPG, LNG and other hydrocarbons. They are also suitable for hydrocarbon process gases, carbon dioxide, hydrogen, helium and nitrogen.

Package	Code	
ISO	220	150
20 L	684221	685221
200 L	684801	685801
1000 L	684991	685991

## SYNCOMP

**Synthetic PAO-based lubricant for air compressors.**

Advanced synthetic PAO-based lubricants designed for use in all types of rotary, vane and screw type compressors. They offer superior performance, wear protection and deposit control for extremely long drain intervals of 10.000 hours

**Specifications:** DIN 51506 VD-L, ISO 6743-3 L-DAJ

Package	Code			
ISO	32	46	68	100
20 L	768221	772221	771221	773221
200 L	768801	772801	771801	773801
1000 L	768991	772991	771991	773991

## MINERCOMP

**High quality zinc free-mineral lubricant for air compressors.**

High quality zinc-free mineral lubricants designed for use in all types of rotary, vane and screw type compressors. They offer reliable performance, wear protection and deposit control for normal drain intervals.

**Specifications:** DIN 51506 VD-L, ISO 6743-3A-DAH

Package	Code				
ISO	32	46	68	100	150
20 L	787221	783221	781221	782221	784221
200 L	787801	783801	781801	782801	784801
1000 L	787991	783991	781991	782991	784991

## RECOM S PE

**Synthetic, polyol ester-based lubricant for refrigeration compressors.**

Advanced synthetic refrigerator compressor fluids formulated with specially selected polyol ester fluids. recommended for open, semi open and hermetic compressors in all types of applications, operating with refrigerants R134A, R23, R404A, R407C, R507 and other HFC blends

**Specifications:** DIN 51503 KD

Package	Code			
ISO	32	46	68	100
20 L	666221	667221	668221	669221
200 L	666801	667801	668801	669801
1000 L	666991	667991	668991	669991



**RECOM AB****Synthetic, alkyl benzene based lubricant for refrigeration compressors.**

Synthetic alkyl benzene based refrigeration compressor lubricant for applications with evaporation temperatures lower than -45 C. It is suitable for rotary or reciprocating compressors using ammonia, CFC, Freon 12, Freon 22, Freon 502 as refrigerants.

**Specifications:** DIN 51503 KAA/KC

Package ISO	Code		
	46	68	100
20 L	686221	770221	796221
200 L	686801	770801	796801
1000 L	686991	770991	796991

**RECOM S****Synthetic PAO-based lubricant for refrigeration compressors**

Synthetic polyalphaolefin based lubricants, suitable for refrigeration compressor systems operating at very high temperatures, and harsh operating conditions in systems with very low evaporation temperatures. Suitable for refrigerants R12, R14, R22 and ammonia.

**Specifications:** DIN 51503 KAA/KE, ISO 6743-3A-DAJ

Package ISO	Code		
	32	46	68
20 L	658221	659221	660221
200 L	658801	659801	660801
1000 L	658991	659991	660991

**RECOM M****Mineral lubricant for refrigeration compressors**

High quality, hydrotreated, naphthenic based, refrigeration compressor lubricants suitable for rotary or reciprocating compressors using ammonia, CFC, Freon 12, Freon 22, Freon 502 as refrigerants.

**Specifications:** DIN 51503 KC/KA, BS 2626/92

Package ISO	Code		
	32	46	68
20 L	777221	778221	780221
200 L	777801	778801	780801
1000 L	777991	778991	780991

**CIRCULATING SYSTEMS AND BEARINGS****CIRCULAR B****High quality mineral lubricant for circulating systems**

Mineral lubricants suitable for general lubrication applications, circulation systems, vacuum pumps and gear boxes operating at low pressure. Recommended for general lubrication applications, circulation systems, lubrication tools and simple hydraulic applications.

**Specifications:** DIN 51524 Part 1 HL, DIN 51517 Part 1 CL

Package ISO	Code								
	32	46	68	100	150	220	320	460	680
20 L	751221	752221	753221	754221	755221	756221	757221	758221	759221
200 L	751801	752801	753801	754801	755801	756801	757801	758801	759801
1000 L	751991	752991	753991	754991	755991	756991	757991	758991	759991

## INDUSTRIAL GEARS

### INDAGEAR SYN PG

#### Synthetic polyglycol based industrial gear lubricant

Synthetic, polyalkylene glycol based industrial gear lubricant. It offers extremely long drain intervals, energy saving, resistance to micro-pitting, oxidation stability at elevated temperatures, and excellent protection at high load conditions.

**Specifications:** DIN 51517 Part 3 (CLP)

Package	Code				
	ISO	150	220	320	460
20 L	661221	662221	663221	664221	
200 L	661801	662801	663801	664801	
1000 L	661991	662991	663991	664991	

### INDAGEAR SYN P

#### Synthetic PAO based industrial gear lubricant.

Synthetic, polyalkylene glycol based industrial gear lubricant. It offers extremely long drain intervals, energy saving, resistance to micropitting, oxidation stability at elevated temperatures, and excellent protection at high load conditions.

**Specifications:** DIN 51517 Part III (CLP), US STEEL 224, FLENDER AG, ISO 12925-1 Type CKD

Package	Code				
	68	150	220	320	460
20 L	670221	671221	672221	673221	674221
200 L	670801	671801	672801	673801	674801
1000 L	670991	671991	672991	673991	674991

### INDAGEAR

#### Mineral EP lubricant for industrial gears.

High quality, mineral, extreme pressure (EP) lubricants designed for use in heavy duty industrial gear boxes and bearings. They offer excellent wear and corrosion protection, high load performance and low foaming tendency.

**Specifications:** DIN 51517 Part III (CLP), US STEEL 224, FLENDER AG, ISO 6743/6 CKS

Package	Code								
	ISO	68	100	150	220	320	460	680	1000
20 L	731221	732221	733221	734221	735221	736221	737221	738221	
200 L	731801	732801	733801	734801	735801	736801	737801	738801	
1000 L	731991	732991	733991	734991	735991	736991	737991	738991	

## METAL WORKING APPLICATIONS

### SYNCUT 60

#### Advanced, high performance, synthetic water soluble metal working fluid.

High performance synthetic metalworking fluid for grinding and machining operations of ferrous and non-ferrous materials. It forms a clear and stable solution that allows full visibility. It exhibits strong bacterial resistance. It is boron and secondary amine free.

Package	Code
20 L	739221
200 L	739801
1000 L	739991

### SYNCUT 40

#### Semi-synthetic, water soluble metalworking fluid.

Synthetic base metalworking fluid designed to form a stable translucent microemulsion when mixed with water. Suitable for machining, cutting, drilling and grinding operations. Ensures rapid settlement of metallic fines. It is chlorine and amine free. Dilution concentrations 4-10%.

Package	Code
20 L	708221
200 L	708801
1000 L	708991

**SYNCUT TD****Semi-synthetic, water soluble metalworking fluid.**

Synthetic base metalworking fluid designed to form a stable, microemulsion when mixed with water. It is designed for metal forming operations. It is ideal for steel shaping in tube forming industry. It is free of chlorine and secondary amines. Dilution concentrations 4-10%.

Package	Code
20 L	749221
200 L	749801
1000 L	749991

**ULAR PLUS****mineral water soluble metalworking fluid.**

Mineral metalworking fluid designed to form stable milky emulsions when mixed with water. It has good bacteria resistance. Suitable for all kinds of metalworking operations. Dilution concentrations 3- 10 %.

Package	Code
20 L	740221
200 L	740801
1000 L	740991

**RUSTPRO DW 25****Solvent-based dewatering agent and corrosion protective fluid.**

Water repellent and rust protective liquid for metal surfaces, designed for application in the steel industry, where corrosion protection for medium periods of storage is required.

Package	Code
20 L	954221
200 L	954801
1000 L	954991

**RUSTPRO DW 30****Solvent-based dewatering agent and corrosion protective fluid.**

Water repellent and rust protective liquid for metal surfaces, designed for application in the steel industry, where corrosion protection for long periods of storage is required. It forms a strong tacky film after solvent evaporation.

Package	Code
20 L	952221
200 L	952801
1000 L	952991

**RUSTPRO DW 40****Solvent-based dewatering agent and corrosion protective fluid.**

Water repellent and rust protective liquid with strong anti-corrosion properties, designed for application in the steel industry, where corrosion protection of metal surfaces for long periods of storage is required. It forms a soap type film with enhanced anti-rust performance after solvent evaporation.

Package	Code
20 L	955221
200 L	955801
1000 L	955991

**STELCAT****High quality neat metalworking oil**

High quality neat cutting oils for heavy machine working of ferrous and non-ferrous metals and their alloys. They offer excellent tool wear protection. Due to the special anti-corrosion and anti-oxidant additives, they are suitable for yellow metal operations.

Package ISO	Code	
	22	32
20 L	742221	743221
200 L	742801	743801
1000 L	742991	743991

**ROLLING OIL****High purity rolling and finishing oil.**

Low viscosity, high purity and a high flash point oil which is used in metalworking and aluminum foil finishing. It is also used in electrical discharge machines (EDM).

Package	Code
20 L	705221
200 L	705801
1000 L	705991

**STAMPING FLUID 65****High quality, low viscosity fluid for metal stamping applications.**

High purity and low viscosity special fluid for use in stamping applications in metal forming. It is suitable for unplated steel, zinc coated steel and yellow metals.

Package	Code
20 L	706221
200 L	706801
1000 L	706991

**AIRTOOL****High performance rock drill and pneumatic tool lubricants.**

Mineral lubricants for use in rock drilling air tools that operate under high pressure and high temperatures. They are suitable for use in rock drill, cutting air tools and pneumatic tools. They form high strength oil film, and offer anti-wear and corrosion protection.

Package ISO	Code		
	46	68	100
20 L	701221	702221	703221
200 L	701801	702801	703801
1000 L	701991	702991	703991

**TEXTILE INDUSTRY****TEXTOL****Special mineral lubricant for the textile industry**

Specially formulated mineral lubricants for the lubrication of knitting and sewing machines including needles, sinkers, cams, needle and sinker cylinders and spinning rings. They exhibit oxidation resistance, non dripping properties and easy scouring.

Package ISO	Code	
	22	32
20 L	730221	741221
200 L	730801	741801
1000 L	730991	741991

**CONCRETE MOULDS****BT SOLUBLE OIL****Emulsifiable concrete mould release lubricant.**

Emulsifiable mineral lubricant for concrete moulds. It is suitable for both wooden and metallic casts.

Package	Code
20 L	745221
200 L	745801
1000 L	745991

**MOULD OIL****Special release agent for metal concrete moulds**

Low viscosity special fluids for the coating of metal moulds used in concrete forming. They help detachment due to chemical action developed on the surface between concrete and metal. They may also be effectively used in wooden or plastic moulds.

Package	Code	
	LD	MD
20 L	747221	748221
200 L	747801	748801
1000 L	747991	748991

**SLIDEWAYS****GARAN****High performance mineral slide-way lubricant**

High performance mineral lubricants with adhesion additives for the lubrication of industrial slider-ways. They offer excellent separation from cutting emulsions, superior frictional performance and high anti wear and anti-corrosion behavior.

**Specifications:** ISO 6742-13 GA/GB

Package	Code		
	68	100	320
20 L	762221	763221	765221
200 L	762801	763801	765801
1000 L	762801	763801	765801

**AIR AND GAS TURBINES****TURBINE F****Superior quality mineral turbine oil**

Mineral lubricants with excellent demulsifying properties, for steam and light duty gas turbines. They offer excellent rust and corrosion protection, and superior oxidation stability.

**Specifications:** DIN 51515 Part 1 L-TD & Part 2 L-TG

Package	Code			
	32	46	68	100
20 L	790221	791221	792221	793221
200 L	790801	791801	792801	793801
1000 L	790991	791991	792991	793991

**HEAT TRANSFER****TRANSTHERM****High quality mineral heat transfer lubricant**

High quality oils for heat transfer systems operating between 10 and 320 C. They have high thermal conductivity and oxidation resistance.

Package	Code	
	A	B
20 L	795221	797221
200 L	795801	797801
1000 L	795991	797991



## INDUSTRIAL CHAINS

### CHAIN OIL T

Solvent based lubricant for industrial chains.

High quality, solvent based lubricant for industrial drive and transport chains. It contains special soap and polymer type additives for effective lubrication and anti-wear protection.

Package	Code
20 L	799221
200 L	799801
1000 L	799991

### CHAINLUB HT 220

High performance synthetic ester based, chain lubricant designed for the lubrication of high temperature conveyor chains at temperatures up to 290°C. It is suitable for use in fiber glass, particle board production etc. It offers high anti-wear protection, low deposit formation and lubricant consumption.

Package	Code
20 L	681221
200 L	681801
1000 L	681991

## METAL QUENCHING

### QUENCHING OIL

High quality paraffinic mineral lubricants blended with special additives for steel quenching in oil baths operating at temperatures between 20 and 60°C. They ensure minimum distortion and decoloration.

Package ISO	Code	
	22	32
20 L	794221	796221
200 L	794801	796801
1000 L	794991	796991

## TRANSFORMERS

### TRANSFORMER OIL A

Unhibited electrical insulating oil produced from severely hydro-treated naphthenic base oils meeting IEC 60296-2012-02 Edition 4.0 Standard table-2 General Specifications. It has excellent dielectric strength, low temperature, and cooling properties.

Package	Code
20 L	798221
200 L	798801
1000 L	798991



# GREASE



## LITHIUM BASE GREASES

### AUTOGREASE

**Semi-fluid lithium soap grease for automotive centralized lubrication systems.**

High performance semi-fluid grease for automotive centralized lubrication systems.. It offers optimum low temperature pump ability over long distances.

**Specifications:** DIN 51825 GP00-K-20

Package	Code
4X4kg	810221
15kg	810801
180kg	810991

### COTTONLUB

**Semi-fluid lithium soap grease for cotton picking machines.**

High performance semi-fluid grease for cotton harvesting machines. It offers optimum low temperature pumpability and untroubled operation during harvesting period.

**Specifications:** DIN 51825 KP 00K-20

Package	Code
15kg	811801
180kg	811991

### MP

**Multi-purpose lithium soap grease.**

Multi-purpose lithium base greases with anti-wear properties for general lubrication. They are suitable for most lubrication requirements of vehicles and general industrial use.

Package	Code			
	LS-0	LS-1	LS-2	LS-3
<b>Specifications</b>	DIN 51825 K0 K-30	DIN 51825 K1 K-30	DIN 51825 K2 K-30	DIN 51825 K3 K-20
16X0,9kg			821161	822161
4X4kg			821221	822221
15kg	823801	820801	821801	822801
180kg	823991	820991	821991	822991

### LS EP

**Multi-purpose extreme pressure lithium soap grease.**

Lithium-based greases for general use with extreme pressure (EP) additives for general lubrication. They cover most EP lubrication requirements in industry, agricultural vehicles and machinery. They are suitable for ball bearing lubrication. They are also used in centralized lubrication systems (LS EP-00)

Package	Code				
	LS EP-00	LS EP-0	LS EP-1	LS EP-2	LS EP-3
<b>Specifications</b>	DIN 51825 KP00 K-30	DIN 51825 KP0 K-30	DIN 51825 KP1 K-30	DIN 51825 KP2 K-30	DIN 51825 KP3 K-20
12X0,4kg				824121	825121
16X0,9kg				824161	825161
4X4kg				824221	825221
15kg	826801	827801	828801	824801	825801
180kg	826991	827991	828991	824991	825991

### LS OG

**Graphited lithium soap grease for open gear lubrication.**

Lithium-based grease with graphite for lubrication of open surface and gear lubrication. It offers excellent adhesion, water resistance and dry lubrication upon grease removal.

**Specifications:** DIN 51825 OG PF2 N-30

Package	Code
15kg	829801
180kg	829991

**LS-2 MO****Graphited lithium soap grease for open gear lubrication.**

Multi purpose lithium based grease with Molybdenum disulfide (MoS<sub>2</sub>). It is suitable for general lubrication of vehicles and off-road equipment operating with vibrations. It offers efficient dry lubrication upon grease removal.

**Specifications:** DIN 51825 KPF2 K-30

Package	Code
12x0.4kg	841121
16x0.9kg	841161
4x4kg	841441
15kg	841201
180kg	841801

**CALCIUM BASE GREASES****CS****Multi-purpose calcium soap grease**

Calcium based greases with excellent adhesion to metal surfaces and high resistance water washout. They are suitable for the lubrication of frame (chassis) of vehicles and agricultural machinery.

Package	CS-1	Code CS-2	CS-3
Specifications	DIN 51825 K1 E-20	DIN 51825 K2 E-20	DIN 51825 K3 E-20
15kg	830201	831201	832201
180kg	830801	831801	832801

**CS-2 G****Calcium soap grease with graphite.**

Calcium based grease with graphite for moderate temperature applications on sliding surfaces and joints. It offers dry lubrication upon grease removal.

**Specifications:** DIN 51825 KF2 E-20

Package	Code
15kg	851201
180kg	851801

**COMPLEX SOAP GREASES****CSX****High performance multi-purpose calcium sulphonate complex grease.**

Premium quality, high performance calcium sulphonate complex grease, suitable for severe applications demanding high loads, high temperatures, corrosion and water resistance, excellent adhesion and thermal stability.

Package	CSX-0/1	Code CSX-1/2	CSX-2
Specifications	DIN 51825 KP0/1 P-30	DIN 51825 KP1/2 P-30	DIN 51825 KP2 P-30
15kg	834201	833201	835201
180kg	834801	833801	835801

## LS COMP

**High temperature, extreme pressure, lithium complex soap grease.**

High performance lithium complex greases with EP additives, suitable for a wide range of general purpose applications demanding EP and high temperature properties. They can be used in heavy duty wheel bearings, axles, ball joints, chains, cables etc.

Package	Code				
	LS-00 comp	LS-0 comp	LS-1 comp	LS-2 comp	LS-3 comp
Specifications	DIN 51825 KP00 P-30	DIN 51825 KP0 P-3	DIN 51825 KP1 P-30	DIN 51825 KP2 P-30	DIN 51825 KP3 P-30
12X0,4kg				861121	
16X0,9kg				861161	
4X4kg				861441	
15kg	857201	858201	859201	861201	862201
180kg	857801	858801	859801	861801	862801

## LS-2 COMP MO

**Heavy duty, extreme pressure, lithium complex soap grease with MoS2.**

Heavy duty, extreme pressure, lithium complex soap grease with MoS2 suitable for slow moving heavily loaded large bearings subject to shock loads. It exhibits excellent mechanical stability under vibrating conditions, water resistance and superior dry lubrication.

**Specifications:** DIN 51825 KPF2 P-20

Package	Code
15kg	866801
180kg	866991

## LS-2 COMP V

**Heavy duty, extreme pressure, lithium complex soap grease.**

Heavy duty, extreme pressure, lithium complex soap grease with high viscosity base oil, suitable for slow moving heavily loaded large bearings.. It offers excellent mechanical stability, superior extreme pressure performance and water resistance.

**Specifications:** DIN 51825 KP2 P-20

Package	Code
15kg	867801
180kg	867991

## MIXED SOAP GREASES

### LCS-EP

**Extreme pressure water resistant lithium-calcium soap grease.**

Versatile water resistant and extreme pressure grease, based on Lithium-Calcium soap for medium to high speed bearings operating in wet environments. Suitable for agricultural and construction equipment.

Package	Code		
	LCS-EP-1	LCS-EP-2	LCS-EP-3
Specifications	DIN 51825 KP1-20	DIN 51825 KP2-20	DIN 51825 KP3-20
12X0,4kg		836121	
16X0,9kg		836161	837161
4X4kg		836441	837441
15kg	838201	836201	837201
180kg	838801	836801	837801



## INORGANIC BASE GREASES

### BNT-2

**Bentonite base grease.**

Special inorganic base type (Bentonite) grease with high viscosity base oils for elevated operating temperatures. Designed to provide low volatility, high resistance to oxidation and excellent stability at high temperatures.

**Specifications:** DIN 51825 : KP2 R-20

Package	Code
15kg	872801
180kg	872991

### FG-2

**Bentonite base grease for food grade applications.**

Special inorganic base type (Bentonite) grease for food grade applications. It is formulated with high purity mineral white oils.

**Specifications:** DIN 51825 : KP2 R-20

Package	Code
15kg	871801
180kg	871991

## POLYUREA GREASES

### LPU-2

**Polyurea base grease**

High performance, Polyurea thickened grease for high speed, high loaded rolling bearings of electrical motors and similar applications. It provides long rolling bearing life, thermal stability, and protection at elevated temperatures and wet conditions.

**Specifications:** DIN 51825 : KP2 P-20

Package	Code
15kg	891801
180kg	891991

## SYNTHETIC GREASES

### LS COMP SYN

**Superior quality, PAO based synthetic lithium complex soap grease.**

Superior quality, PAO based synthetic lithium complex soap greases, combining the advantages of polyalphaolephine synthetic base fluids with high quality lithium complex soaps. It provides excellent low temperature pumpability, thermal and oxidation stability, anti-wear protection, very low starting and running torque. The lithium complex thickener provides excellent adhesion, structural stability and water resistance.

Package	Code	
	LS-1/2 COMP SYN P	LS-2 COMP SYN
<b>Specifications</b>	DIN 51825: KPHC 1/2 N-40	DIN 51825: KPHC 2 N-30
15kg	881201	882201
180kg	881801	882801





*BRAKE FLUID*

### **DOT-4**

**Synthetic brake fluid corresponding to the strict requirements of car manufacturers.**

specifications: FMVSS 116 DOT-4, SAE J 1704, JIS K 2233 CLASS 4

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### **DOT-3**

**Meets all the international standards for DOT3 brake fluid. the patented formula prolongs working life of gaskets and brake hoses which are used in brake systems.**

specifications: FMVSS 116 DOT-3, ISO 4925 CLASS 3, SAE J 1703, JIS K 2233 CLASS 3

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### **DOT-4 PLUS**

**Specially developed low-viscous synthetic brake fluid of the last generation with enhanced temperature characteristics. the patented production technology makes it possible for ROVEL DOT-4 plus to perform at extremely low and high temperatures**

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### **DOT-3 HV**

**Specially developed for countries with hot climate. patented formula and attractive price makes ROVEL DOT-3 HV one step ahead of other brake fluids on the competitive markets.**

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### **DOT-6**

**Llow viscous synthetic brake fluid designed for modern electronic brake systems equipped with ABS and ESP.**

specifications: ISO 4925 class 6





## *ENGINE COOLANTS*



## ANTIFREEZE BS

Undiluted engine antifreeze, suitable for engine cooling systems. It is amines and nitrites free.

Specifications:	Package	Code
ASTM D 3306/ASTM D 4985/ SAE J1034/CUNA NC 956-16/ ONORM V 5123:2009/AFNOR NFR 15-601/ BS 6580:2010	12x1 L	901161
	4x4 L	901441
	20 L	901221
	200 L	901801
	1000 L	901991

## ANTIFREEZE G-12

Undiluted engine antifreeze, suitable for modern engine cooling systems, especially for highly loaded aluminum engines. It covers the latest OEM requirements. It is amines, nitrites, phosphates and silicates free.

Specifications:	Package	Code
VW/Audi/Seat/Skoda TL-774-D/F, Porsche Carrera/Boxter/Cayenne, MB 325.3, MAN 325 SNF, MTU MTL 5048, SCANIA TI - 02 - 980813T / BM sv, Ford WSS-M97B44, GM 6277, VOLVO.	12x1 L	902161
	4x4 L	902441
	20 L	902221
	200 L	902801
	1000 L	902991

## ALL WEATHER

Prediluted (ready to use) engine coolant with -27°C protection. Suitable for cooling systems of vehicles and machinery. It is amines and nitrites free.

Specifications:	Package	Code
ASTM D 3306/ASTM D 4985/ SAE J1034/CUNA NC 956-16/ ONORM V 5123:2009/AFNOR NFR 15-601/ BS 6580:2010	12x1 L	911161
	4x4 L	911441
	20 L	911221
	200 L	911801
	1000 L	911991

## G-12 RADIATOR FLUID

Prediluted (ready to use) engine coolant with -27°C protection. Suitable for modern engine cooling systems, especially for highly loaded aluminum engines. It covers the latest OEM requirements. It is amines, nitrites, phosphates and silicates free.

Specifications:	Package	Code
Ford: WSS-M97B44-D, MAN: 324-SNF, MB: DBL 7700.30 p325.3, MTU: MTL 5048, VW/Audi/Seat/Skoda: TL 774-D/F	12x1 L	912161
	4x4 L	912441
	20 L	912221
	200 L	912801
	1000 L	912991

## FLUSHING OIL

Special lubricant designed for the internal cleaning of gasoline and diesel engines.

Package	Code
12x1 L	951161
4x4 L	951441
20 L	951221
200 L	951801
1000 L	951991

## DFI

Diesel flow improver. It prevents wax crystal formation in diesel fuel. (Usual treatment: 1/1000).

**Specifications:** DFI

Package	Code
12x1 L	941161
4x4 L	941441
20 L	941221
200 L	941801
1000 L	941991

## SPECIFICATION TABLES

### API CLASSIFICATION

#### PETROL ENGINES

SN	For 2011 and older automotive engines
SM	For 2010 and older automotive engines
SL	For 2004 and older automotive engines
SJ	For 2001 and older automotive engines
SH	Obsolete - For 1996 and older automotive engines
SG	Obsolete - For 1993 and older automotive engines
SF	Obsolete - For 1988 and older automotive engines

#### DIESEL ENGINES

CJ4-	Introduced on 2010 for high speed -4stroke engine, designed to meet 2010 emissions standards. CJ4- exceeds the performance criteria of C4-, CH4-, CG4- and CF4-.
C4-	Introduced on 2002 for high speed -4stroke engine, designed to meet 2004 exhaust emissions standards. Can be used in place of CD, CE, CF4-, CG4- and CH4- oils
CH4-	Introduced on 1998 for high speed -4stroke engine, designed to meet 1998 exhaust emissions standards. Can be used in place of CD, CE, CF4- and CG4- oils
CD	Obsolete - For normal and turbocharged automotive engines
CF4-	Introduced on 1990 for high speed -4stroke engine, for normal and turbocharged automotive engines
CG4-	Obsolete - For engines designed to meet 1994 exhaust emissions standards. Can be used in place of CD, CE, CF4- oils
CF2-	Obsolete - For two stroke engines
API CK4-	Introduced on 2016, designed to meet 2017 vehicles emissions standards. CK4- exceeds CJ4- and most older engine oil qualities.

### ACEA CLASSIFICATION

#### PETROL ENGINES

A1/B1	Stable, stay-in-grade oil intended for use at extended drain intervals in gasoline engines and car & light van diesel engines specifically designed to be capable of using low friction low viscosity oils with a high temperature / high shear rate viscosity of 2.6 mPa.s for xW/20 and 2.9 to 3.5 mPa.s for all other viscosity grades. (removed since 2016)
A3/B3	Stable, stay-in-grade oil intended for use in high performance gasoline engines and car & light van diesel engines and/or for extended drain intervals where specified by the engine manufacturer, and/or for year-round use of low viscosity oils, and/or for severe operating conditions as defined by the engine manufacturer.
A3/B4	Stable, stay-in-grade oil intended for use in high performance gasoline and direct injection diesel engines, but also suitable for applications described under A3/B3.
A5/B5	Stable, stay-in-grade oil intended for use at extended drain intervals in high performance gasoline engines and car & light van diesel engines designed to be capable of using low friction low viscosity oils with a High temperature / High shear rate (HTHS) viscosity of 2.9 to 3.5 mPa.s
C1	Stable, stay-in-grade oil intended for use as catalyst compatible oil in vehicles with DPF and TWC in high performance car and light van diesel and gasoline engines requiring low friction, low viscosity, low SAPS oils with a minimum HTHS viscosity of 2.9 mPa.s. These oils will increase the DPF and TWC life and maintain the vehicles fuel economy.
C2	Stable, stay-in-grade oil intended for use as catalyst compatible oil in vehicles with DPF and TWC in high performance car and light van diesel and gasoline engines designed to be capable of using low friction, low viscosity oils with a minimum HTHS viscosity of 2.9mPa.s. These oils will increase the DPF and TWC life and maintain the vehicles fuel economy.
C3	Stable, stay-in-grade oil intended for use as catalyst compatible oil in vehicles with DPF and TWC in high performance car and light van diesel and gasoline engines, with a minimum HTHS viscosity of 3.5mPa.s. These oils will increase the DPF and TWC life.
C4	Stable, stay-in-grade oil intended for use as catalyst compatible oil in vehicles with DPF and TWC in high performance car and light van diesel and gasoline engines requiring low SAPS oil with a minimum HTHS viscosity of 3.5mPa.s. These oils will increase the DPF and TWC life
C5	Mid SAPS, low viscosity oils with HTHS >2,6 mPa & <2,9 mPa, demanding %2 higher fuel economy than C3. Replaces the removed A1/B1 specification. C5 oils increase the DPF and TWC life.

#### DIESEL ENGINES

E4	Stable, stay-in-grade oil providing excellent control of piston cleanliness, wear, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under very severe conditions, e.g. significantly extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines without particulate filters, and for some EGR engines and some engines fitted with SCR NOx reduction systems.
E6	Stable, stay-in-grade oil providing excellent control of piston cleanliness, wear, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under very severe conditions, e.g. significantly extended oil drain intervals according to the manufacturer's recommendations. It is suitable for EGR engines, with or without particulate filters, and for engines fitted with SCR NOx reduction systems. E6 quality is strongly recommended for engines fitted with particulate filters and is designed for use in combination with low sulphur diesel fuel.
E7	Stable, stay-in-grade oil providing effective control with respect to piston cleanliness and bore polishing. It further provides excellent wear control, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under severe conditions, e.g. extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines without particulate filters, and for most EGR engines and most engines fitted with SCR NOx reduction systems.
E9	Stable, stay-in-grade oil providing effective control with respect to piston cleanliness and bore polishing. It further provides excellent wear control, soot handling and lubricant stability. It is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under severe conditions, e.g. extended oil drain intervals according to the manufacturer's recommendations. It is suitable for engines with or without particulate filters, and for most EGR engines and for most engines fitted with SCR NOx reduction systems. E9 is strongly recommended for engines fitted with particulate filters and is designed for use in combination with low sulphur diesel fuel.

## OEM SPECIFICATIONS

## BMW

<b>BMW Longlife-98 (BMW LL-98)</b>	Special long-life engine oil, approved by BMW. Also meets ACEA A3/B3, API SJ/CD, EC SAE 5W-40. Usually required for BMWs manufactured before MY 2002. Obsolete since 2009.
<b>BMW Longlife-01 (BMW LL-01)</b>	Special BMW approval for fully synthetic long-life oil. Product meets ACEA A3/B3 and API: SJ/CD EC-II. Usually required for BMWs built after MY 2002. Can also be used where a BMW Longlife-98 oil is recommended.
<b>BMW Longlife-01 FE (BMW LL-01 FE)</b>	Fully synthetic long-life oil with fuel economy properties. Oils meeting this specifications must have a low HTHS viscosity to meet the manufacturer's fuel - economy requirements. These oils are only suitable for the following engines: N1x, N2x, N54, N55, N63, N74.
<b>BMW Longlife-04 (BMW LL-04)</b>	Special BMW approval for fully synthetic long-life oil. Viscosities are SAE 0W-30, 0W-40, 5W-30 and 5W-40. Usually required for BMWs equipped with a diesel particulate filter (DPF). Can also be used where a BMW Longlife-98 or BMW Longlife-01 oil is recommended.
<b>BMW Longlife-12 (BMW LL-12)</b>	Special motor oil for certain approved gasoline engines and the following diesel engines only: Nx7K1, Nx7U1, Nx7O1 from model year 2013. Not suitable for engines with 2 or 3 turbos.
<b>BMW Longlife-14+ (BMW LL-14+)</b>	Special motor oil for the following gasoline engines only: N20, Bx8 from model year 2014. Not allowed for diesel engines.

## FORD

<b>Ford WSS-M2C913-A</b>	Engine oil, Initial and service fill, SAE 5W-30. This specification meets the ILSAC GF-2 and ACEA A1-98 and B1-98 and additional Ford requirements.
<b>Ford WSS-M2C913-B</b>	The Ford M2C913-B specification is released in Europe for initial fill engine oils used for lubrication of spark ignition engines using gasoline and for compression ignition engines using diesel fuels. The specification is also used to define engine oils for servicing Ford engines where applicable. The oil shall meet all the requirements of the ILSAC GF-2 and GF-3 specification, the ACEA A1-98 and B1-98 specification and additional Ford requirements.
<b>Ford WSS-M2C913-C</b>	Fully backwards compatible and is strongly recommended for all applications that currently require the specification Ford M2C913-B. The new engine oil provides various benefits to the customer such as improved fuel economy benefits and high robustness to biodiesel fuels.
<b>Ford WSS-M2C913-D</b>	Introduced in 2012, oils meeting this specification are recommended for all Ford diesel engines except Ford Ka TDCi models manufactured before 2009 and Ford Galaxy 1.9 TDI models manufactured between 2000 and 2006. A product meeting this specification is especially recommended for diesel engines where M2C913-B or M2C913-C oils were initially required. An oil meeting this specification must be used in Ford Transit vehicles manufactured from 2012 onward with Duratorq 2.2 engine. Oils meeting this specification can be used with extended oil change intervals and are also suitable to be used in engines running on biodiesel or high sulfur diesel.
<b>Ford WSS-M2C917-A</b>	Viscosity SAE 5W40 engine oil for pump injector diesel engines.
<b>Ford WSS-M2C934-A</b>	Extended drain engine oil for vehicles equipped with diesel particulate filter (DPF).
<b>Ford WSS-M2C937-A</b>	Special engine oil for Ford Focus RS. Viscosity should be SAE 0W-40.
<b>Ford WSS-M2C948-B</b>	Largely based on the ACEA C2 oil sequence this spec requires a low SAPS 5W20 oil and is primarily designed for the 1.0 liter, 3-cylinder EcoBoost engine. Contains in-house tests for fuel economy and piston deposit control. Oils meeting this spec must provide a 0.9% fuel economy improvement over regular 5W-20 oils.
<b>Ford WSS-M2C950-A</b>	Special engine oil for Ford Focus Diesel 2.0 manufactured from September 2014 and Ford Mondeo Diesel 2.0 manufactured from 2015. Viscosity should be SAE 0W-30.

## MERCEDES

The name of the MB specifications derives from the Mercedes Bluebook scheme, divided by numbered paragraphs and pages. It is used by dealers to identify the products certified by the manufacturer and their correct application on the engines.

<b>MB 226.5</b>	This specification is required for Mercedes vehicles with gasoline engines supplied by the Renault-Nissan Alliance. Specification requirements are similar to MB 229.5.
<b>MB 226.51</b>	This specification is based on RN0720 and is recommended for Mercedes vehicles with DPF fitted diesel engines supplied by Renault. Oils meeting this specification have very good thermal stability and aftertreatment compatibility.
<b>MB 229.1</b>	For petrol and diesel engines. Minimum quality required ACEA A2/B2 with additional limits on engine.
<b>MB 229.3</b>	For petrol and diesel engines. Minimum quality required ACEA A3 / B3 / B4 and MB 229.1. It can only certify 0/ 5 W-x oils.
<b>MB 229.31</b>	Multigrade, low SAPS engine oil, advised for both diesel and petrol engines of Mercedes Benz, Smart and Chrysler. Only low viscosity engine oils which can realize a 1,0% saving on used fuel in the M111 Fuel economy test (CEC L-54-T-96) can get this approval. In this test the fuel savings are compared to the performance of the Reference oil RL 191 (SAE 15W-40).
<b>MB 229.5</b>	MB sheet for energy conserving oils for certain car and van engines. Approved oils must meet ACEA A3, B3 and B4 specification and some additional demands by Daimler Chrysler AG. Oil must be on the approval list.
<b>MB 229.51</b>	Low SAPS Long Life engine oil for diesel engines with particle filter meeting emission EU-4 -> standards.
<b>MB 229.52</b>	Oils meeting this specifications must have lower ash content, at least 1% better fuel economy compared to the requirements of MB 229.31 and MB 229.51 and better oxidation stability for biofuel compatibility. Can also be used where an MB 229.31 or an MB 229.51 oil is required. Just like MB 229.5 and MB 229.51 this spec requires a long life oil.
<b>MB 228.1</b>	For high performance diesel engines.
<b>MB 228.3</b>	High efficiency lubricants (SHPD) for turbo charged HD diesel engines. Extended drain intervals up to 45.000 km.
<b>MB 228.31</b>	Similar to 228.3 but for HD diesel engines with Bleutec particulate filters (DPF).
<b>MB 228.5</b>	Ultra high efficiency lubricants (UHPD) for turbo charged HD diesel engines. Extended drain intervals up to 100.000 km.
<b>MB 228.51</b>	Similar to 228.5 but for Euro 4 and newer HD diesel engines with Bluetec particulate filters (DPF).

## MAN

<b>MAN M 3275</b>	High efficiency lubricants (SHPD) for turbo charged HD diesel engines. Extended drain intervals up to 45.000 km.
<b>MAN M 3277</b>	Ultra high efficiency lubricants (UHPD) for turbo charged HD diesel engines. Extended drain intervals up to 100.000 km.
<b>MAN M 3575</b>	Similar to M 3275 but for HD diesel engines with particle filters (DPF).
<b>MAN M 3477</b>	Ultra high efficiency lubricants (UHPD) for Euro IV and Euro V HD diesel engines equipped with DPF. Extended drain intervals up to 100.000 km.
<b>MAN M 3677</b>	Ultra high efficiency lubricants (UHPD) for Euro VI HD diesel engines equipped with DPF. Extended drain intervals up to 100.000 km and fuel economy.



## VOLKSWAGEN GROUP

- VW 500.00** Volkswagen specification for multigrade engine oils for gasoline engines with SAE 5W-X/10W-X viscosity. This is an "old" oil specification and is applicable to engines built before model year 2000 (up to August 1999). Oils with an approval made post March 1997 were given an alternative, later VW specification.
- VW 501.01** Conventional motor oils suitable for some VW engines built before MY 2000. This is an "old" oil specification and is applicable to engines built before model year 2000 (up to August 1999). Oils with an approval made post March 1997 were given an alternative, later VW specification.
- VW 502.00** Oil for gasoline engines. Successor of VW 501.01 and VW 500.00 specification. Recommended for those which are subject to arduous conditions. It must not be used for any engines with variable service intervals or any which are referred to under other specifications.
- VW 503.00** Long-life gasoline engine oil for VW cars with WIV (system for longer service intervals). Also meets ACEA A1, SAE 0W30- or 5W30- specification.
- VW 503.01** This specification is specifically for Audi RS4, Audi TT, S3 and Audi A6.0 8 V12 models with outputs of more than 180bhp, running with variable service intervals (30,000km or 2 years). Now superceeded by the VW 504.00 specification.
- VW 504.00** The VW 00 504 specification superceeds the VW 00 503 and VW 503.01 specifications. VW 00 504 oils are suitable for engines meeting the demands of Euro IV emissions standards.
- VW 505.00** Passenger car diesel engine oil specification, minimum performance level CCMC PD2-. Lists viscosities SAE 5W10 ,50-W15 ,60/50-W20 ,50/40-W50/40- requiring %13 max. evaporation loss and SAE 5W10 ,40/30-W40/30- requiring %15 max. evaporation loss.
- VW 505.01** Special engine oil for VW turbodiesel engines with pump-injector-unit and for the V8 Commonrail turbodiesel engines. Meets ACEA B4 SAE 5W40- specification.
- VW 506.00** These oils are suitable for diesel engines with extended service intervals of up to 50,000km / 2 years. Not for use on engines with a single injector pump. Oil change is indicated by the electronic service indicator. Viscosity is SAE 0W30.
- VW 506.01** These oils are especially for "Pumpe-Düse" (unit injector or "PD" engines) running on extended service intervals (50,000 - 30,000km / 24 months). Oil change is indicated by the electronic service indicator.
- VW 507.00** Low SAPS oils suitable for Euro 4 engines and almost all VAG diesel engines from 2000 onwards with extended service intervals, unitary injector pumps and also Pumpe-Düse ("PD") engines. Excludes V10,R5 engines and VW Commercial vehicles without fitted DPF (diesel particulate filters) – these must use a 01 506 specification oil.
- VW 508.00/ 509.00** This specification combo (508.00 for petrol, 509.00 for diesel) requires a 0W20 viscosity, fuel economy oil with long life additives. These specifications are NOT backward compatible with the earlier VW specifications. Recommended for the new 2.0 TFSI 140 kW and 3.0 TDI CR 160 kW VW/Audi engines.

## PSA GROUP

The French PSA group issued a set of oil specifications in 2009 in order to exercise greater control over the motor oils used in their vehicles. All specifications are based on ACEA specs but also require further conditions to be met.

- PSA B2290 71** Peugeot/Citroën engine oil specification introduced in 2009. B2290 71 is a low-SAPS oil intended for engines with diesel particulate filters and with Euro 5 emission standards. General specifications are: ACEA C2 or C3 with additional PSA tests.
- PSA B2294 71** Peugeot/Citroën engine oil specification introduced in 2009. Main specification: ACEA A3/B4 with additional PSA tests.
- PSA B2295 71** Peugeot/Citroën engine oil standard for engine before MY 1998. General specification: ACEA A2/B2.
- PSA B2296 71** Peugeot/Citroën engine oil specification introduced in 2009. General specifications: ACEA A3/B4 + additional PSA tests.
- PSA B2312 71** Peugeot Citroën has developed B2312 71 standard for oils able to endure the most severe thermal constraints along with most modern after treatment systems compatibility. The PSA B2312 71 standard applies to all Peugeot and Citroën vehicles equipped with "BlueHDI" Diesel engines fitted with SCR (Selective Catalyst Reduction) allowing NOx (Nitrous oxides) treatment through the use of AdBlue® additive or so-called "diesel exhaust fluid". The standard also requires improved cold flow properties to reduce hydrodynamic friction of the oil, in order to obtain fuel economy benefits especially when the oil is cold. This extra requirement for cold flow properties allows excellent oil flow at start up, faster oil pressure build up, faster revs raisings and faster operating temperature reach. This type of low viscosity lubricant allows fuel consumption reduction and therefore reduces greenhouse gases (CO2) emissions.

## RENAULT

- Renault RN0700:** Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA A3/B4 or ACEA A5/B5.
- Renault RN0710:** Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA A3/B4 + additional Renault demands.
- Renault RN0720:** Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA C3 + additional Renault demands. RN0720 is designed for use in the latest generation diesel engines equipped with DPF.

## GM/OPEL

GM Dexos approved oils are recommended to be used in all GM vehicles except those built with Duramax diesel engines that require an API CJ4- quality oil.

- GM Dexos 1:** Designed with gasoline engines in mind GM Dexos 1 replaces the GM-LL-A025-, GM6094M and GM4718M specifications. This specification is usually recommended for GM vehicles built for the North American and Asian markets. Compared to ILSAC GF5- it has stricter requirements regarding piston deposit formation, aeration, oxidation stability, wear, low-temperature pumpability and volatility.
- GM Dexos 2:** The GM Dexos 2 specification is meant to be the replacement for both GM-LL-A025- (gasoline) and GM-LL-B025- (diesel) specifications for the European market. Oils meeting GM Dexos 2 are required for vehicles manufactured from MY2011 onward but they are also backward compatible with older models. This specification is built on the ACEA C3 standard but also contains elements from the ILSAC GF4- deposit formation test and low-temperature sludge build-up test.

## OPEL Motor Oil Specifications

- GM-LL-A025-:** Special GM approval for long-life engine oil for gasoline engines. Viscosity is SAE 0W30-. Product meets ACEA A3/B3. Drain interval can be as long as 000 30 kms. Recommended for vehicles built before MY2011.
- GM-LL-B025-:** Special GM approval for long-life engine oil for diesel engines. Viscosity is SAE 5W40-. Product meets ACEA A3/B3/B4. Drain interval can be as long as 000 50 kms. Recommended for vehicles built before MY2011.

## JASO

## 2T specifications

Japanese motorcycle manufacturers found the limits demanded by the API TC specifications too loose. Oils meeting the API TC standard still produced excessive smoke and could not prevent exhaust blocking. Therefore the Japanese Engine Oil Standards Implementation Panel (JASO) introduced the following specifications:

- JASO FAOriginal spec established regulating lubricity, detergency, initial torque, exhaust smoke and exhaust system blocking.
- JASO FBIncreased lubricity, detergency, exhaust smoke and exhaust system blocking requirements over FA.
- JASO FCLubricity and initial torque requirements same as FB, however far higher detergency, exhaust smoke and exhaust system blocking requirements over FB.
- JASO FDSame as FC with far higher detergency requirement.

## 4T specifications

Modern passenger car engine oils contain more and more friction modifiers. While this is the good thing for those segments (reduces wear and fuel consumption) it's bad for the motorcycles. At least for those motorcycles which use engine oil to lubricate their transmission and wet clutch. JASO introduced the MA and MB specification to distinguish between friction modified and non friction modified engine oils. Most four-stroke motorcycles with wet clutches need a JASO MA oil.

- JASO MAJapanese standard for special oil which can be used in 4-stroke motorcycle engine with one oil system for engine, gearbox and wet clutch system. Fluid is non-friction modified.
- JASO MBMB grade oils are classified as the lowest friction oils among motorcycle four-cycle oils. Not to be used where a JASO MA grade oil is required

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