

emka[®]

MOTOR OILS & ADDITIVES



 **MADE IN GERMANY**

HEAVY DUTY

ENGINE OILS

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RECOMMENDATION: add additives with every engine and gearbox oil change. **Find it in the web**

BFL CONCEPT

Become a part of our BFL concept as well.

Our external sales team will be very pleased to advise

If you utilise **2, or up to a maximum of 4** different lubricants from our BFL concept, then you can reduce the number of lubricants which need to be utilized in your entire machinery inventory and vehicle fleet.

Advantages for you:

RATIONALIZES THE TYPEES OF LUBRICANTS

SAFETY AND SECURITY

COST REDUCTIONS

STORAGE SPACE SAVINGS

USER FRIENDLY



ENHANCE YOUR PERFORMANCE

Ready to conquer the road with EMKA lubricants.



RECOMMENDATION: ADD ADDITIVES WITH EVERY ENGINE AND GEARBOX OIL CHANGE
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EMKA Cargo IV-LS 0W20



HC synthetic diesel engine oil for the latest Iveco engines
 Specially developed for the Stralis Euro 6 Cursor engines, which have been equipped with a fuel economy package (FEP1). It features a Low SAPS formulation and therefore provides extremely high fuel economy.

Can be used with:
 IVECO 18-1804 CLASSE TLV LS

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 0228030	20 Liters	1	Art. no. 0228010	205 Liters	1
Art. no. 0228020	60 Liters	1	Art. no. 0228001	1000L IBC	1

Misprints and errors excepted

EMKA Cargo Extra 5W20



Synthetic low SAPS engine oils which have been specially formulated for Euro 6 D engines produced by MAN and Scania

EMKA Cargo Extra 5W20 is a latest generation low SAPS extended-life engine oil with very low viscosity, which has been specially developed for MAN and Scania Euro 6 D diesel engines in HGVs and buses. It is characterised by its exceptional fuel economy and excellent thermal stability.

Only fill into the engines specified below! This engine oil is not considered to be backward compatible with older specifications, never mix!

The operating regulations of the engine manufacturer must always be observed.

Can be used with:

MAN M 3977; Scania LDF-5; Iveco Euro 6 D engines

		PU		PU	
Art. no. 0211050	5 Liters	4	Art. no. 0211010	205 Liters	1
Art. no. 0211030	20 Liters	1	Art. no. 0211000	Tank	1
Art. no. 0211020	60 Liters	1			

Supergrade BFL Extra 5W30



Multifunctional low SAPS lubricant which has been specially developed for the EMKA fluid concept

Supergrade BFL Extra 5W30 is a multifunctional lubricant which has been developed for machinery in the construction industry, agricultural and forestry industries and also ensures fuel economy. It is utilised in engines, hydraulic systems, manual gearboxes and powershift transmissions, thereby contributing to grade rationalisation. **Supergrade BFL Extra 5W30 can be used for 3 functions:**

Engine:

It can be utilised in commercial vehicle diesel engines (with/without particulate filters) with the latest reduction technology for engines and emissions which fulfil LEVEL 4 Final, Stage 4i, Stage IV, Stage IIIB emission standards, as well as older generation Stage IIIA, Stage II, Stage I, Stage 1, 2, 3 models. This oil is also imperatively recommended when utilising low sulphur fuels and engines which are equipped with diesel particulate filters.

Manual gearboxes and powershift transmissions:

Supergrade BFL Extra 5W30 can be utilised in all generations of manual gearboxes and transmissions as well as powershift transmissions.

Hydraulic systems:

Supergrade BFL Extra 5W30 can be utilised in all hydraulic systems, irrespective of whether high pressure or low pressure, also when the system circuit incorporates high efficiency filters in the supply pipes/or return circuit.

Supergrade BFL Extra 5W30 can be implemented in all seasons due to its high viscosity index and low continuous flow point of -39 °C. It provides a wide range of applications, with excellent cold start characteristics and the best possible minimisation of wear and oxidation.

Can be used with:

Engine:

ACEA E11, E9, E8, E7, E6, E4; API CK-4, CJ-4, CI-4+, CI-4, CH-4, SN; CAT ECF-3/ECF-2/ECF-1a; CUMMINS 20086/81/78/77/76; Deutz DQC IV-18 LA/IV-10 LA; Global DHD-1; JASO DH-2/DH-1; KOMATSU EO-DH2; MTU Typee 3.1; DAF Extended Drain; FORD WSS-M2C213-A1; Detroit Diesel 93K222/93K218; MAN 3677/3477/M3271-1/M3277; MACK EOS-4.5/EO-O PREMIUM PLUS; Daimler Truck DTFR 15C110 (MB 228.51)/DTFR 15C100 (MB 228.31); Daimler Truck DTFR 15B120 (MB 228.5)/DTFR 15B110 (MB 228.3); Iveco 18-1804 CLASSE TLS E6; VOLVO VDS-4.5/VDS-4; RENAULT TRUCKS RLD-4/RLD-3; Scania LDF-4

Transmission: API GL-4/SAE 30; ALLISON C-4; CAT TO-4 (SAE 10W/30); KOMATSU CLUTCH: TO-10,30; ZF TE-ML 07D

Hydraulic systems: ISO VG 46 (nach 100 Bh) / HV

Applicable like the following products: CAT HYDRO ADVANCED 10/30; CNH MAT 3509 – CASE MS 1230; JCMS HK 46W(Extended Drain); KOMATSU HO-46 (HV)

		PU
Art. no. 0249330	20 Liters	1
Art. no. 0249320	60 Liters	1
Art. no. 0249310	205 Liters	1
Art. no. 0249300	Tank	1

EMKA Cargo E6 5W30



HC synthesis ultra high performance diesel engine oil

for diesel engines and gas engines with/without turbocharging of emission class EURO IV to VI in HGVs, buses and work machines with/without diesel particulate filter (DPF) and/or exhaust gas catalyst (SCR). It is particularly suitable in difficult operating conditions and weather conditions and is also fuel-efficient in combination with low-sulphur diesel fuel. EMKA Cargo E6 5W30 provides excellent wear protection and can be utilised according to the manufacturer's specification for oil change intervals up to 100,000 km.

Manufacturer approvals:

Deutz DQC IV-18 LA; MAN M3677; Daimler Truck DTFR 15C110 (MB 228.51); Volvo VDS-4; Mack EO-O Premium Plus; Renault VI RLD-3

Can be used with:

ACEA E6, E7, E8, E9, E11; API CK-4, API SN; DAF Extended Drain; Daimler Truck DTFR 15C100 (MB 228.31); Detroit Diesel 93K222/93K218; FORD WSS-M2C213-A1; Mack EOS-4.5/EO-N Premium Plus; MAN M3677/M3477/M3277/M3271-1; Iveco 18-1804 TLS E6; Renault VI RXD/RGD/RLD-4/-2; Scania LDF-4; Volvo VDS-4.5; CAT ECF-3; Cummins CES 20086/81; Deutz DQC IV-10 LA; JASO DH-2; MTU DDC Type 3.1; Voith Retarder Class B

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 0227050	5 Liters	4	Art. no. 0227010	205 Liters	1
Art. no. 0227030	20 Liters	1	Art. no. 0227000	Tank	1
Art. no. 0227020	60 Liters	1			

EMKA Cargo Plus 5W30



Synthetic low SAPS engine oil according to API FA-4

EMKA Cargo Plus 5W30 is a low SAPS extended life engine oil of the latest generation with lowered viscosity, which has been developed especially for Volvo engines and Mercedes Benz Euro 6 diesel engines in HGVs, buses and work machines, although it can also be utilised for other manufacturer engines which require an engine oil according to API FA-4. It is characterised by its higher fuel economy, increased oxidation stability and shear stability as well as an improved wear protection.

Only fill it in when an engine oil according to API FA-4 has been specified! This engine oil is not considered to be backward compatible with older specifications! The operating regulations of the engine manufacturer must always be observed.

Can be used with:

API FA-4, API SN; Cummins CES 20087; Detroit Diesel DDC 93K223; DTFR 15C130 (MB 228.61); Ford M2C214-B1; Mack EO-S 5; Renault RLD-5; Volvo VDS-5

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 0210050	5 Liters	4	Art. no. 0210010	205 Liters	1
Art. no. 0210030	20 Liters	1	Art. no. 0210000	Tank	1
Art. no. 0210020	60 Liters	1			

Supergrade BFL Extra 10W30



Multifunctional low SAPS lubricant which has been specially developed for the EMKA fluid concept

Supergrade BFL Extra 10W30 is a multifunctional lubricant which has been developed for machinery in the construction industry, agricultural and forestry industries and also ensures fuel economy. It is utilised in engines, hydraulic systems, manual gearboxes and powershift transmissions, thereby contributing to grade rationalisation.

Supergrade BFL Extra 10W30 can be used for 3 functions:

Engine: Supergrade BFL Extra 10W30 can be utilised in commercial vehicle diesel engines (with/without particulate filters) with the latest reduction technology for engines and emissions which fulfil the LEVEL 4 Final, Stage 4i, Stage IV, Stage IIIB emission standards, as well as older generation Stage IIIA, Stage II, Stage I, Stage 1, 2, 3 models. This oil is also imperatively recommended when utilising low sulphur fuels.

Manual gearboxes and powershift transmissions: Supergrade BFL Extra 10W30 can be utilised in all generations of manual gearboxes, as well as in powershift transmissions and PTOs.

Hydraulic systems: Supergrade BFL Extra 10W30 can be utilised in all hydraulic systems, irrespective of whether high pressure or low pressure, also when the system circuit incorporates high efficiency filters in the supply pipes/or return circuit.

Supergrade BFL Extra 10W30 can be implemented in all seasons due to its high viscosity index and low continuous flow point of -39°C . It provides a wide range of applications, with excellent cold start characteristics and the best possible minimisation of wear and oxidation.

Can be used with:

Engine:

ACEA E11, E8, E9, E7, E5; API CK-4, CJ-4, CI-4+, CI-4, CH-4, SN; CAT ECF-3/ECF-2/ECF-1a; DAF PSQL 2.1E LD/2.1E/Extended Drain; CUMMINS 20086/81/78/77/76; Detroit Diesel 93K222; Deutz DQC IV-18 LA/IV-10 LA; Global DHD-1; JASO DH-2/DH-1; KOMATSU EO-DH2; Iveco 18-1804 TLS E9; DTFR 15B120(MB 228.5)/DTFR 15B110(MB 228.3); Daimler Truck DTFR 15C120(MB 228.52)/DTFR 15C110(MB 228.51)/DTFR 15C100(MB 228.31); Liebherr LH-00-ENG3A LA/LH-00-ENG LA; MTU Typee 3.1/Typee 2.1; MAN M 3677/M 3477/M 3775/M 3275-1/M 3575; MACK EO-S 4.5/EO-O PREMIUM PLUS; Scania LA; Ford WSS-M2C 171-F1; RENAULT TRUCKS RLD-4/RLD-3/RGD; VOLVO VDS-4.5/VDS-4/VDS-3/CNG

Transmission:

API GL-4/SAE 30; ALLISON C-4; CAT TO-4 (SAE 10W/30)
KOMATSU CLUTCH: TO-10,30; ZF TE-ML 07D

Hydraulic systems:

ISO VG 46 (-> 100 Bh) / HV

Applicable like the following products:

CAT HYDRO ADVANCED 10/30; CNH MAT 3509 – CASE MS 1230;
JCMA HK 46W (Extended Drain); KOMATSU HO-46 (HV)

		PU
Art. no. 0249030	20 Liters	1
Art. no. 0249020	60 Liters	1
Art. no. 0249010	205 Liters	1
Art. no. 0249000	Tank	1

EMKA Cargo LSP 10W40



Premium low-friction diesel engine oil for commercial vehicles with exhaust gas aftertreatment

EMKA Cargo LSP 10W40 is an extended-life, low-viscosity engine oil for diesel engines and gas engines with/without turbocharging and exhaust gas aftertreatment systems of emission class Euro I to VI in HGVs, buses and work machines. It has been equipped with state-of-the-art additives in order to comply with the special requirements of exhaust gas aftertreatment and recirculation systems for low SAPS technology. Its low contents of sulphur, phosphorus and ash enable it to easily comply with exhaust emission guidelines.

Manufacturer approvals:

Deutz IV-18 LA; Daimler Truck DTFR 15C110 (MB 228.51)

Can be used with:

ACEA E11, E8, E9, E6, E7; API CK-4, API CJ-4, API SN; DAF HP-2; Daimler Truck DTFR 15C110 (MB 228.51)/DTFR 15C100 (MB 228.31); Detroit Diesel 93K222/93K218; Iveco 18-1804 TLS E9; MACK EOS-4.5/EO-N/EO-O Premium Plus; MAN 3477/3775/3575/3275/3271-1; Renault VI RLD-3/RXD/RGD; Scania Low Ash; Volvo VDS-4.5; JASO DH-2; CAT ECF-3; MTU DDC Typ 3.1; Cummins CES 20086/81/78/77/76; Deutz DQC IV-18 LA/IV-10 LA (TTCD); Voith Retarder "B"

		PU			PU
Art. no. 0224050	5 Liters	4	Art. no. 0224010	205 Liters	1
Art. no. 0224030	20 Liters	1	Art. no. 0224000	Tank	1
Art. no. 0224020	60 Liters	1			

Supergrade LL-X 10W40



Super high performance HC synthetic low-friction engine oil

For petrol and diesel engines. It is designed for use in mixed fleets where petrol and diesel engines in cars, trucks and work machinery are operated with and without turbocharging. It always ensures a stable lubricating film due to the very high thermal load capacity. Extended oil change intervals according to the manufacturer's specifications are therefore made possible without any problems.

Can be used with:

ACEA A3/B4, E7; API CI-4, API SL; DAF; Detroit Diesel DDC 93K215; Daimler Truck DTFR 15B110 (MB 228.3); Daimler Truck DTFR 13B110 (MB 235.28); MACK EO-N/EO-M PLUS; MAN 3275-1; MB 229.1; Renault VI RLD-2; Volvo VDS-3; Voith Retarder B; VW 500 00/501 01/505 00; Global DHD-1; JASO DH-1; Allison C-4; CAT ECF-2/TO-2; Cummins CES 20076/77/78; Deutz DQC III-10; MTU Type 2

		PU			PU
Art. no. 0245075	1 Liter	12	Art. no. 0245020	60 Liters	1
Art. no. 0245050	5 Liters	4	Art. no. 0245010	205 Liters	1
Art. no. 0245030	20 Liters	1	Art. no. 0245000	Tank	1

Turbo Super LSP 15W40



Low SAPS and low-friction diesel engine oil

Specially developed „Low SAPS“ engine oil for applications in commercial vehicle Euro VI and Euro V diesel engines with and without exhaust gas aftertreatment and turbocharging when used under difficult operating conditions, also with extended servicing and maintenance intervals. It is a fuel-efficient engine oil based on high-quality base oils and the latest, most modern additive technology with exceptional protection against wear.

Can be used with:

ACEA E9, E7, E6; API CK-4, CJ-4, CI-4+, SN; JASO DH-2; Global DHD-1; Daimler Truck DTFR 15C110 (MB 228.51)/DTFR 15C100 (MB 228.31); MAN 3775/3575/3277; Renault VI RLD-4; Ford WSS-M2C171-F1; MACK EO-S 4.5; Volvo VDS-4.5; SDFG OM 1901-A; Detroit Diesel DDC 93K222/93K218; CAT ECF-3/ECF-2; Cummins CES 20086; Deutz DQC III-10 LA; MTU Type 2.1

		PU			PU
Art. no. 0323030	20 Liters	1	Art. no. 0323010	205 Liters	1
Art. no. 0323020	60 Liters	1	Art. no. 0323000	Tank	1

Turbo Super SHPD 15W40



Super high performance diesel engine oil

For applications in mixed fleets even under difficult operating conditions. Exceeds the performance requirements of modern petrol engines and Euro V diesel engines with and without turbocharging. It possesses excellent cold-start properties and reduces wear as well as fuel consumption. Turbo Super SHPD 15W40 enables extended oil change intervals corresponding to the manufacturer's specification.

Manufacturer approvals:

Daimler Truck DTFR 15B110 (MB 228.3)

Can be used with:

ACEA A3/B4, E7; API CI-4, API SM; DAF; Daimler Truck DTFR 15B110 (MB 228.3)/MB 229.1; Detroit Diesel DDC 93K215; MAN M3275-1; MACK EO-N; Iveco 18-1804 T2 E7; Renault VI RLD-2; Volvo VDS-3; Allison C-4/TES 439; Global DHD-1; Jaso DH-1; CAT ECF-2/TO-2; Cummins CES 20078/77/76; Deutz DQC III-10; John Deere JDQ 78A; MTU Type 2

PU			PU		
Art. no. 9621045	1 Liter	12	Art. no. 9621048	60 Liters	1
Art. no. 9621046	5 Liters	4	Art. no. 9621049	205 Liters	1
Art. no. 9621047	20 Liters	1	Art. no. 9621050	1000L IBC	1
			Art. no. 0320000	Tank	1

Turbo Super SHPD 20W50



Super high performance diesel engine oil (SHPD)

For applications in mixed fleets, even under difficult operating conditions in HGVs and work machines. Exceeds the performance requirements of modern petrol and Euro V diesel engines with and without turbocharging. It possesses excellent cold-start properties, reduces wear and guarantees a stable lubricating film even at high temperatures.

Can be used with:

ACEA A3/B4, E7; API CI-4, API SM, API CF; DAF; Daimler Truck DTFR 15B110 (MB 228.3)/MB 229.1; Detroit Diesel DDC 93K215; MAN M3271-1; MACK EO-N; Iveco 18-1804 T2 E7; Renault VI RLD-2; Volvo VDS-3; Allison C-4/TES 439; Global DHD-1; Jaso DH-1; CAT ECF-2/TO-2; Cummins CES 20078/77/76; Deutz DQC III-10; John Deere JDQ 78A; MTU Type 2

PU			PU		
Art. no. 9621055	1 Liter	12	Art. no. 9621058	60 Liters	1
Art. no. 9621056	5 Liters	4	Art. no. 9621059	205 Liters	1
Art. no. 9621057	20 Liters	1	Art. no. 9621060	1000L IBC	1
			Art. no. 0326000	Tank	1

Garant HD-C SAE range 10W, 20W20, 30, 40, 50



Turbo Unigrade Engine oil

The oils in the Garant HD-C series are mineral HD Monograde engine oils for petrol and diesel engines in passenger cars and commercial vehicles with/without turbocharging. They are characterized by good cold start properties and by minimizing friction and wear. The oils SAE 10W and 20W20 are also used in hydraulic systems because of their excellent detergent and dispersant properties. The operating instructions of the vehicle and engine manufacturers must be observed.

Can be used with:

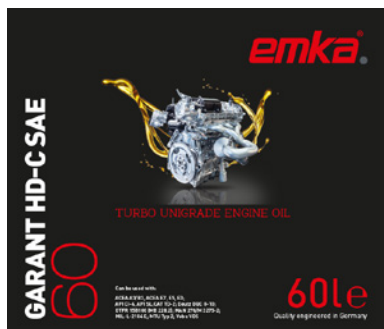
ACEA B4, E2; API CF-4, API SG;
Allison C-4; MAN 270; MB 228.0;
MIL-L-2104 D/46152 B; CAT TO-2;
Deutz DQC I-02; MTU DDC Typ 1;
Volvo VDS

Garant HDC SAE 10W			Garant HDC SAE 20W20		
Art. no.	Volume	PU	Art. no.	Volume	PU
0381050	5 Liters	12	0382050	5 Liters	12
0381030	20 Liters	4	0382030	20 Liters	4
0381020	60 Liters	1	0382020	60 Liters	1
0381010	205 Liters	1	0382010	205 Liters	1

Garant HDC SAE 30			Garant HDC SAE 40		
Art. no.	Volume	PU	Art. no.	Volume	PU
0383050	5 Liters	12	0384050	5 Liters	12
0383030	20 Liters	4	0384030	20 Liters	4
0383020	60 Liters	1	0384020	60 Liters	1
0383010	205 Liters	1	0384010	205 Liters	1

Garant HDC SAE 50		
Art. no.	Volume	PU
0385050	5 Liters	12
0385030	20 Liters	4
0385020	60 Liters	1
0385010	205 Liters	1

Garant HD-C SAE 60



Turbo Unigrade Engine oil

The oils in the Garant HD-C series are mineral HD Monograde engine oils for petrol and diesel engines in passenger cars and commercial vehicles with/without turbocharging. They are characterized by good cold start properties and by minimizing friction and wear. The SAE 60 oil also has excellent high-temperature properties due to its high viscosity. The operating instructions of the vehicle and engine manufacturers must be observed.

Can be used with:

ACEA A3/B3, ACEA E7, E5, E3; API CI-4, API SL; CAT TO-2;
Deutz DQC II-10; DTFR 15B100 (MB 228.2); MAN 270/M 3275-2;
MIL-L-2104 E; MTU Typ 2; Volvo VDS

Garant HDC SAE 60		
Art. no.	Volume	PU
0386020	60 Liters	1



Multigear BFL Spezial



High performance multifunctional oil, specially developed for the EMKA fluid concept

Designed for the lubrication of hypoid gearboxes or transmissions which are located in front axles and rear axles, highly loaded final drive units as well as axles equipped with limited slip differential. It guarantees optimal cooling as well as vibration-free and jerk-free operation of the oil-immersed brake. Multigear BFL Extra can be implemented for wet brakes and "limited slip" axles from the major manufacturers. It can also be used in all generations of synchronised or mechanical manual gearboxes.

Can be used with:

API GL-5 LS, API GL-4;
CAT FD-1 (SAE 50); CAT TO-4 (SAE 50) – (passed wet braking tests);
KOMATSU Micro Clutch - (passed wet braking tests); Liebherr; Terex

		PU			PU
Art. no. 1240030	20 Liters	1	Art. no. 1240010	205 Liters	1
Art. no. 1240020	60 Liters	1	Art. no. 1240000	Tank	1

Transmatic ATF A 295



Synthetic automatic transmission oil

Transmatic ATF A 295 is a fully synthetic automatic transmission oil which has been designed for utilisation in heavy duty automatic transmissions in HGVs, buses and work machines which are operating under the most severe or harsh conditions. The very low flow point (-48 °C) and very high viscosity always guarantee the function of the transmission even at very low temperatures. This enables the longest oil change intervals to be applied although the manufacturer's specifications must always be still observed.

Can be used with:

Allison TES-295/TES-389/TES-468; Daimler Truck DTFR 13C180 (MB 236.91)GM Dexron III G; MAN 339 TypeeV2/Z3; VOITH H 55.6336.xx / US B 013/118; ZF TE-ML 14C/16S/20C/25C

		PU			PU
Art. no. 1431050	5 Liters	4	Art. no. 1431020	60 Liters	1
Art. no. 1431030	20 Liters	1	Art. no. 1431010	205 Liters	1

Universal ATF 3000



Super high performance automatic transmission fluid

A rationalisation alternative for automatic transmission fluids according to the Dexron IID and Suffix A specification. It can be utilised in automatic transmissions, power steering, powershift clutches and for hydraulic applications in private cars, commercial vehicles and work machinery. The operating regulations of the manufacturers must always be observed.

Can be used with:

GM Dexron II D; ATF Suffix A; Daimler Truck DTFR 13C120 (236.2)/DTFR 13C140 (236.7); Ford Mercon/SQM-2C9010B/M2C138-CJ/M2C166-H/M2C185-A; MAN 339 Type Z1; MB 236.6; CAT TO-2; Allison C-4; VOITH H 55.6335.XX; Renk-Doromat; ZF TE-ML 03D/04D/05L/11A/14A/17C

		PU			PU
Art. no. 1420675	1 Liter	12	Art. no. 1420020	60 Liters	1
Art. no. 1420050	5 Liters	4	Art. no. 1420010	205 Liters	1
Art. no. 1420030	20 Liters	1			

Universal ATF 4000



HC synthetic automatic transmission oil

Automatic transmission fluid based on HC-synthesis base oils with excellent integral properties and performance characteristics due to the addition of special friction improving agents. It has been developed for applications in automatic transmissions, gearboxes, power steering, powershift clutches and for hydraulic applications in private cars, commercial vehicles and work machinery.

Can be used with:

Dexron IID/IIIE/IIIF/IIIG/IIIH; BMW 83229407807/83229407858; Daimler Truck DTFR 13C100 (MB 236.1)/DTFR 13C120 (MB 236.2); Daimler Truck DTFR 13C140 (MB 236.7)/DTFR 13C170 (MB 236.93/replaces MB 236.9); Ford Mercon/M2C-138-CJ/-166H; MAN 339 Type L1/Z1/V1/Z2/V2; MB 236.5/MB 236.6/MB 236.7/MB 236.10; Volvo 97340/97341/1161521/1161511/11611; VW G 052162 (TL 52162); Allison C-4/TES-389; CAT TO-2; VOITH 55.6335(G607)/55.6336.3X Extended Drain(G1363); ZF TE-ML 02F/03D/04D/05L/09A/09B/11A/11B/14A/14B/16L/17C/21L

		PU		PU
Art. no. 1426070	1 Liter	12	Art. no. 1426020	60 Liters 1
Art. no. 1426050	5 Liters	4	Art. no. 1426010	205 Liters 1
Art. no. 1426030	20 Liters	1		

Universal ZH-Fluid green



Special HC synthetic central hydraulic oil

It can also be used at the very lowest temperatures due to its special formulation. Its optimum performance behaviour and wide temperature range (-60 °C / +100 °C) enables it to be used as a central hydraulic oil in power steering systems, rear axle steering systems, level control systems, shock absorbers, active damping and engine support, hydrostatic drive units for fans, stability systems and traction systems (ABS/ASR/ASC), central locking systems, hydraulic brake boosters, electro-hydraulic convertible roof covering control systems as well as in hydro-pneumatic suspensions in VW/Audi/Seat/Skoda vehicles (VW Standard TL 521 46).

Can be used with:

DIN 51524-2; ISO 11158 HM; CETOP RP 91 H; Eaton Vickers M-2950-S Mobile, Eaton Vickers I-286-S Industrial; MAN M3289; MB 344.0; VW G 002 000

		PU		PU
Art. no. 1427075	1 Liter	12	Art. no. 1427020	60 Liters 1
Art. no. 1427050	5 Liters	4	Art. no. 1427010	205 Liters 1
Art. no. 1427030	20 Liters	1		

Universal LHM+ Fluid green



Special central hydraulic oil

based on synthetic and mineral oil with advanced additives. Suitable for use even at extremely low temperatures. Due to its optimal performance and wide temperature range (-40°C to +130°C), it is used as a central hydraulic oil in power steering systems, rear-axle steering, level control systems, shock absorbers, active engine mounts and damping, hydrostatic drives for fans, stability and traction systems (ABS/ASR/ASC), central locking systems, hydraulic brake boosters, electro-hydraulic convertible top controls, as well as hydropneumatic suspensions in VW, Audi, Seat, Skoda, and other vehicles from leading manufacturers.

Can be used with:

ISO 7308; Land Rover Cold Climate PAS Fluid 14315 LRN2261; MB 343.0; Opel 1940766; PSA B71 2710; Peugeot/Citroen 9979.A1; Saab 93 160 548; Volvo 30741424; VW G 004 000

		PU		PU
Art. no. 1428075	1 Liter	12	Art. no. 1428020	60 Liters 1
Art. no. 1428050	5 Liters	4	Art. no. 1428010	205 Liters 1
Art. no. 1428030	20 Liters	1		

Syntogear MAN 75W80



Synthetic high performance manual gearbox oil

Syntogear MAN 75W80 has been developed for utilisation in heavily loaded manual gearboxes and automatic transmissions under the most difficult conditions, especially ZF commercial vehicle gearboxes or transmissions equipped with an interarder. It can significantly increase the gear shifting comfort, is compatible with carbon synchroniser rings and realises extremely long oil change intervals according to manufacturer's specifications up to 500,000 km.

Can be used with:

API GL-4; DAF; EATON Transmission; Iveco 18-1807 MGS1; MAN 341 Type Z4/E3/VR; MIL-L-2105; Renault; Volvo 97307/97305/97318; Voith Oil class C; ZF TE-ML 01L/02D/02L/07A/08/16K

			PU				PU
Art. no. 1120730	20 Liters	1		Art. no. 1120710	205 Liters	1	
Art. no. 1120720	60 Liters	1		Art. no. 1120700	Tank	1	

Syntogear ZF-HG 75W80



Fully synthetic manual gearbox oil

This fully synthetic multi-purpose manual gearbox oil has been specially developed for the requirements of ZF manual gearboxes in commercial vehicles (for the Mercedes Benz 235.41) and automatic transmissions (ZF AS Tronic) with and without an interarder. The modern formulation enables calculating for very long oil intervals (corresponding to the manufacturer's specification) and can also therefore be additionally utilised in other manual gearboxes in HGVs, buses and vans, which would normally require an API GL-4 oil.

Can be used with:

API GL-4; Daimler Truck DTFR 13B160 (MB 235.41); Daimler Truck DTFR 13D120 (MB 235.29); Iveco 18-1807 MSG-2; MAN 341 Type Z-5/VR; Voith Type C; Volvo 97307; ZF AS Tronic Getriebe; ZF TE-ML 01E/02E/16P

			PU				PU
Art. no. 1113050	5 Liters	4		Art. no. 1113020	60 Liters	1	
Art. no. 1113030	20 Liters	1		Art. no. 1113010	205 Liters	1	

Syntogear TSL 75W90



HC synthetic multi-purpose manual gearbox and axle transmission oil

High performance gear oil with the latest additive technology. It can be used according to the manufacturer's specification in the axle transmissions and manual gearboxes of cars, trucks, agricultural and work machinery. Especially for equalising gears with limited slip (LS) and in hypoid transmissions.

Can be used with:

API GL-5 LS, API GL-4; MIL-L-2105 D; ZF TE-ML 05C/05D

			PU				PU
Art. no. 1111775	1 Liter	12		Art. no. 1111020	60 Liters	1	
Art. no. 1111050	5 Liters	4		Art. no. 1111010	205 Liters	1	
Art. no. 1111030	20 Liters	1		Art. no. 1111000	Tank	1	

Syntogear MB 75W90



HC synthetic ultra high performance engine oil

With tried and tested additive technology. Has been specially developed for utilisation in the Actros vehicle series from Mercedes Benz. The optimum gear-box efficiency creates fuel savings and is also designed for very long oil change intervals.

Can be used with:

API GL-4; Daimler Truck DTFR 13B110 (MB 235.21/replaces 235.11);
MAN Typee MB; ZF TE-ML 08

			PU				PU
Art. no. 1120630	20 Liters	1		Art. no. 1120610	205 Liters	1	
Art. no. 1120620	60 Liters	1		Art. no. 1120600	Tank	1	

Syntogear SL 75W90



Full synthetic universal Gearoil

Syntogear SL 75W90 is a fully synthetic, high-performance axle and manual transmission oil with the latest additive technology to ensure trouble-free operation of transmission and axle components. It can be used in synchronized and non-synchronized manual transmissions/transaxles, as well as in heavily loaded axle and transfer cases and auxiliary drives where an API GL-5, GL-4, or GL-4+ oil is required.

Can be used with:

API GL-5, API GL-4; ARVIN MERITOR 0-76-N; BMW OSP; Chrysler MS 9763; DAF GL5 / MIL-PRF-2105E; Daimler Truck DTFR 12B110 (MB 235.20); Daimler Truck DTFR 12B140 (MB 235.9 ersetzt MB 235.8); Daimler Truck DTFR 13B110 (MB 235.21 replaces MB 235.11); IVECO MIL-PRF-2105E; MACK GO-J; MIL PRF-2105E; MAN 341 E-3, 341 GA1, 341 Z-2, 342 M-3; Renault B0032/3 ANNEX 3; SAE J 2360; Scania STO 1:0; Volvo 97312; ZF TE-ML 02B/05A/07A/08/12B/12L/12N/16F/17B/19C/21A/21B

			PU				PU
Art. no. 1120830	20 Liters	1		Art. no. 1120810	205 Liters	1	
Art. no. 1120820	60 Liters	1		Art. no. 1120800	Tank	1	

Syntogear FDL 75W90



Fully synthetic heavy duty gear oil for commercial vehicles

With state-of-the-art additive technology for utilisation in rear axles (also hypoid), final drives and selected manual gearboxes. The gearbox oil is characterised by its excellent flow capability and stability at high and very low temperatures and has been specially designed for heavy-duty drive components in (mountain) construction vehicles under severe conditions. Due to its special formulation and excellent properties, it therefore enables the longest oil change intervals (however, the manufacturer's operating instructions must always be observed).

Can be used with:

API GL-4, API GL-5, API MT-1; SAE J 2360; Daimler Truck DTFR 12B140 (235.9/ replaces 235.8); Iveco 18-1805 RAS1; MAN 342 Type S-1/M3/341 Z2/E3/GA2; MIL PRF-2105E; Volvo 97312; Scania STO 2:0G/2:0A FS/2:0A/1:1G/1:0; ZF TE-ML 02B/05A/12L/12N/16F/17B/19C/21A

			PU				PU
Art. no. 1117030	20 Liters	1		Art. no. 1117010	208 Liters	1	
Art. no. 1117020	60 Liters	1					

Syntogear FDS 75W140



Fully synthetic heavy duty gearbox oil for commercial vehicles

With state-of-the-art additive technology for utilisation in rear axles (also hypoid), final drives and selected manual gearboxes. The gearbox oil is characterised by its excellent flow capability and stability at high and very low temperatures and has been specially designed for heavy-duty drive components in (mountain) construction vehicles under severe conditions.

Can be used with:

API GL-4, API GL-5;
Daimler Truck DTFR 12B140 (MB 235.9/ersetzt MB 235.8);
Ford M2C192-A; Mack GO-J; MIL PRF-2105E; MAN 3343 Type S/341 E3;
Scania STO 1:0; Volvo 97312; ZF TE-ML 02B/05B/12B/16F

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 1115030	20 Liters	1	Art. no. 1115010	208 Liters	1
Art. no. 1115020	60 Liters	1			

Mehrzweck SAE range



High-Performance Gearoil

The gear oils of the Mehrzweck SAE-Series are high-performance gear oils according to GL-4, for (Non-)synchronized manual transmissions as well as for axle drives and auxiliary transmissions in Vehicles and working machines.

Can be used with:

API GL-4; Daimler Truck DTFR 13B100 (MB 235.14/MB 235.1);
MAN M 341 Typ E1/Z2;
MIL-L-2105D;
ZF TE-ML 02A/16A/17A/19B

SAE 80W

Art. no.	Volume	PU
Art. no. 1340075	1 Liter	12
Art. no. 1340050	5 Liters	4
Art. no. 1340030	20 Liters	1
Art. no. 1340020	60 Liters	1
Art. no. 1340010	205 Liters	1
Art. no. 1340000	Tank	1

SAE 90	Volume	PU
Art. no. 1341075	1 Liter	12
Art. no. 1341050	5 Liters	4
Art. no. 1341030	20 Liters	1
Art. no. 1341020	60 Liters	1
Art. no. 1341010	205 Liters	1
Art. no. 1341000	Tank	1

SAE 80W90	Volume	PU
Art. no. 1340575	1 Liter	12
Art. no. 1340550	5 Liters	4
Art. no. 1340530	20 Liters	1
Art. no. 1340520	60 Liters	1
Art. no. 1340510	205 Liters	1
Art. no. 1340500	Tank	1

SAE 140	Volume	PU
Art. no. 1342075	1 Liter	12
Art. no. 1342050	5 Liters	4
Art. no. 1342030	20 Liters	1
Art. no. 1342020	60 Liters	1
Art. no. 1342010	205 Liters	1
Art. no. 1342000	Tank	1

Multigear EPX 80W90



Super high performance gear oil

GL-4/GL-5 for synchronised and non-synchronised manual gearboxes as well as for axle transmissions, transfer gearboxes, intermediate gearboxes and auxiliary transmissions in vehicles and work machinery. Tried and tested in practical environments as a rationalisation alternative to the following gearbox oil Types: SAE 80W / SAE 90 / SAE 80W90 / SAE 85W90.

Can be used with:

API GL-4, API GL-5/ SAE J2360;
Daimler Truck DTFR 13B100 (MB 235.14/ersetzt MB 235.1);
Daimler Truck DTFR 12B100 (MB 235.0); MAN M 342 Typ M2/M1;
MIL-L-2105D; NATO O-226; Scania STO 1:0; Volvo 1273.10/97310;
ZF TE-ML 05A/07A/12E/16C/17B/19B/21A

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 1310775	1 Liter	12	Art. no. 1310020	60 Liters	1
Art. no. 1310050	5 Liters	4	Art. no. 1310010	205 Liters	1
Art. no. 1310030	20 Liters	1	Art. no. 1310000	Tank	1

Multigear MDL 80W90



HC synthetic high performance gear oil

Ideally suited for use in the entire powertrain of modern vehicles. It can be utilised in non-synchronised manual gearboxes through to the hypoid, toothed axle transmission of the manufacturers MAN, DAF, IVECO and Renault Trucks corresponding to the manufacturer's specification.

Can be used with:

API GL-4, API GL-5, API MT-1; Arvin Meritor 076-D; DAF; IVECO;
Daimler Truck DTFR 12B100 (MB 235.0);
MAN 342 Typ M2; MAN 341 Typ E2/Z2; MIL-PRF-2105E; SAE J2360; Scania STO 1:0;
ZF TE-ML 02B/05A/07A/08/12L/12M/16B/16C/17B/17H/19B/19C/21A/21B

		PU			PU
Art. no. 1321030	20 Liters	1	Art. no. 1321010	205 Liters	1
Art. no. 1321020	60 Liters	1	Art. no. 1321000	Tank	1

Multigear MDL 80W90 LS



High performance "limited slip" gear oil

With exceptional wear protection properties. It has been developed with the latest additive technology and is utilised in accordance with the manufacturer's specifications in the axle transmission in construction machinery and agricultural machinery, commercial vehicles and buses with and without a multi-disk differential.

Can be used with:

API GL-5/LS, API MT-1; ARVIN MERITOR AXLES; Bell; CLAAS; Fendt;
Ford M2C-118-A/197-A; GM 1942382/1942387/9121965/93165290;
John Deere JDM J11 F; Liebherr; MACK GO-J; MIL-L-2105 D; Sennebogen; Terex;
Volvo 1273,21 (97321); ZF TE-ML 05C/05N/07A/08/12C/16E/21C/21N

		PU			PU
Art. no. 1372070	1 Liter	12	Art. no. 1372020	60 Liters	1
Art. no. 1372050	5 Liters	4	Art. no. 1372010	205 Liters	1
Art. no. 1372030	20 Liters	1	Art. no. 1372000	Tank	1

Hypoid SAE 85W90



High performance gear oil

For heavily loaded axle transmissions in commercial vehicles and work machinery. Even at very low outside temperatures, it still provides the quickest possible oil penetration, therefore excellent gearbox efficiency and the lowest possible power losses.

Can be used with:

API GL-5; Daimler Truck DTFR 12B100 (MB 235.0); MAN M 342 Typ M1;
MIL-L-2105D; Volvo 97310; ZF TE-ML 16C/17B/19B/21A

		PU			PU
Art. no. 1355070	1 Liter	12	Art. no. 1355020	60 Liters	1
Art. no. 1355050	5 Liters	4	Art. no. 1355010	205 Liters	1
Art. no. 1355030	20 Liters	1	Art. no. 1355000	Tank	1

Multigear SVG 85W140



High performance gear oil for heavily loaded gears

Special high pressure gearbox oil based on high-quality solvent refined base oil. It possesses extraordinary wear protection characteristics and excellent shear stability, which therefore guarantee optimum efficiency even with long periods of use. It can be utilised in highly loaded hypoid axle drives, manual gearboxes, intermediate transmissions and auxiliary transmissions of vehicles and working machinery according to filling specifications.

Can be used with:

API GL-5, DAF; Ford M2C-9002A; GM; Mack GO-CS 3000B/GO-G; MAN 342 Typ M1; MIL-L-2105 D; Scania STO 1:0; Volvo 97310; ZF TE-ML 05A/12E/16D/21A

		PU			PU
Art. no. 1365075	1 Liter	12	Art. no. 1365020	60 Liters	1
Art. no. 1365050	5 Liters	4	Art. no. 1365010	205 Liters	1
Art. no. 1365030	20 Liters	1	Art. no. 1365000	Tank	1

Indus CLP range 68, 100, 150, 220, 320, 460, 680



High performance EP industrial gear oil

The oils of the Indus CLP range are high-performance industrial gear oils according to DIN 51517 Part 3 Typee CLP with high pressure absorption capacity and very good wear protection in the mixed friction range. Preferred utilisation in mechanically and thermally highly loaded industrial gearboxes or gears with circulation systems. Also utilised in highly loaded industrial gear units such as spur, bevel and worm gears, which are operated at operating temperatures up to 120 °C, or briefly up to 140 °C. ISO VG 32 to VG 680.

Can be used with:

DIN 51517-3: CLP; ISO 6743-6; ISO 12925-1: CKC/CKD/CKSMP; AGMA 9005 E02; AIST (US Steel) 224; David Brown S1.53.101 E

		PU
Art. no. 3141050	5 Liters	4
Art. no. 3141030	20 Liters	1
Art. no. 3141020	60 Liters	1
Art. no. 3141010	205 Liters	1
Art. no. 3141000	Tank	1

Indus CLP 100		PU
Art. no. 3142050	5 Liters	4
Art. no. 3142030	20 Liters	1
Art. no. 3142020	60 Liters	1
Art. no. 3142010	205 Liters	1
Art. no. 3142000	Tank	1

Indus CLP 150		PU
Art. no. 3143050	5 Liters	4
Art. no. 3143030	20 Liters	1
Art. no. 3143020	60 Liters	1
Art. no. 3143010	205 Liters	1
Art. no. 3143000	Tank	1

Indus CLP 220		PU
Art. no. 3144050	5 Liters	4
Art. no. 3144030	20 Liters	1
Art. no. 3144020	60 Liters	1
Art. no. 3144010	205 Liters	1
Art. no. 3144000	Tank	1

Indus CLP 320		PU
Art. no. 3145050	5 Liters	4
Art. no. 3145030	20 Liters	1
Art. no. 3145020	60 Liters	1
Art. no. 3145010	205 Liters	1
Art. no. 3145000	Tank	1

Indus CLP 460		PU
Art. no. 3146050	5 Liters	4
Art. no. 3146030	20 Liters	1
Art. no. 3146020	60 Liters	1
Art. no. 3146010	205 Liters	1
Art. no. 3146000	Tank	1

Indus CLP 680		PU
Art. no. 3147050	5 Liters	4
Art. no. 3147030	20 Liters	1
Art. no. 3147020	60 Liters	1
Art. no. 3147010	205 Liters	1

Indus PG range 68, 100, 150, 220, 320, 460, 680, 1000



Fully synthetic industrial gear oil based on polyglycol

The oils of the Indus PG range are classified as fully synthetic high-performance industrial gear oils with high pressure absorption capacity and very good wear protection in the mixed friction range. They are preferably utilised in mechanically and thermally highly loaded industrial gearboxes with recirculating systems such as spur gear, bevel gear and worm gear, which are normally expected to be operated at high temperatures (briefly up to 200 °C is possible!).

Can be used with:

DIN 51517-3: CLP-PG; ISO 6743-6; ISO 12925-1: CKC/CKD/CKE/CKSMP/CSPG/CTPG; AGMA 9005/E02: EP; Alpha Getriebbau Flender Getriebe (BA 7300, Tabelle A); SEW

Indus PG 150		PU
Art. no. 3534050	5 Liters	4
Art. no. 3534030	20 Liters	1
Art. no. 3534010	205 Liters	1

Indus PG 220		PU
Art. no. 3530050	5 Liters	4
Art. no. 3530030	20 Liters	1
Art. no. 3530010	205 Liters	1

Indus PG 320		PU
Art. no. 3531150	5 Liters	4
Art. no. 3531130	20 Liters	1
Art. no. 3531010	205 Liters	1

Indus PG 460		PU
Art. no. 3532050	5 Liters	4
Art. no. 3532030	20 Liters	1
Art. no. 3532010	205 Liters	1

Indus PG 680		PU
Art. no. 3533050	5 Liters	4
Art. no. 3533030	20 Liters	1
Art. no. 3533010	205 Liters	1

Indus PG 1000		PU
Art. no. 3535350	5 Liters	4
Art. no. 3535330	20 Liters	1
Art. no. 3535310	205 Liters	1

Syntolube CLP range 68, 100, 150, 220, 320, 460, 680



Fully synthetic industrial gear oil based on poly alpha olefins

The oils of the Syntolube CLP series are classified as demulsifying, fully synthetic industrial gearbox oils with increased oxidation resistance and ageing resistance, very good load carrying capacity and high wear protection. They are utilised in thermally highly loaded bearings, articulated pressure spindles, spur gear and worm gear as well as planetary gears when increased demands are made on high temperature and low temperature operating limits. Even at short-term peak temperatures of up to 150 °C, the oil still exhibits high lubricant film stability and enables trouble-free operation. It is miscible with mineral gearbox oils and ester-based gearbox oils.

Can be used with:

DIN 51517-3: CLP-HC; ISO 6743-6 und ISO 12925-1: CKC/CKD/CKE/CKSMP; AGMA 9005/E02: EP/9005-F16; AIST (US Steel) 224; David Brown S1.53.106; Flender BA 7300, Tab A

Syntolube CLP 320		PU
Art. no. 3164550	5 Liters	4
Art. no. 3164530	20 Liters	1
Art. no. 3164510	205 Liters	1

Syntolube CLP 460		PU
Art. no. 3165050	5 Liters	4
Art. no. 3165030	20 Liters	1
Art. no. 3165010	205 Liters	1

Syntolube CLP 680		PU
Art. no. 3166050	5 Liters	4
Art. no. 3166030	20 Liters	1
Art. no. 3166010	205 Liters	1

Syntolube CLP 68		PU
Art. no. 3162050	5 Liters	4
Art. no. 3162030	20 Liters	1
Art. no. 3162010	205 Liters	1

Syntolube CLP 100		PU
Art. no. 3167050	5 Liters	4
Art. no. 3167030	20 Liters	1
Art. no. 3167010	205 Liters	1

Syntolube CLP 150		PU
Art. no. 3163150	5 Liters	4
Art. no. 3163130	20 Liters	1
Art. no. 3163110	205 Liters	1

Syntolube CLP 220		PU
Art. no. 3164050	5 Liters	4
Art. no. 3164030	20 Liters	1
Art. no. 3164010	205 Liters	1

Unifluid UTTO



High performance gear/hydraulic oil

Multifunctional gearbox oil/hydraulic oil for utilisation in working machinery with combined gearbox, transmission/hydraulic oil system with wet brakes and/or wet clutches as well as for axles. It prevents noise development and thereby ensures trouble-free operation for the duration of the oil change interval. Unifluid UTTO can be utilised for gears, transmission/hydraulic systems and manual gearboxes/PTOs according to API GL-4 SAE 80W or as hydraulic oil Typee HLP/HVLP-D according to ISO VG 68.

Can be used with:

API GL-4; SAE 80W; 10W-30; DIN 51524-3 HVLDP; AGCO Q-1802/182616 (Whitefarm); Allison C-4; CAT TO-2; CNH MS 1210/1206; CNH MAT 3525/3506/CNH 410 B; Deutz-Allis AC Powerfluid 821 XL; Ford M2C134-D/86-B/C; FNHA-2C200.00; John Deere J20C/J21A; Massey Ferguson CMS M1145/1143/1141/1135; Renault 180596; Valtra G2-08; SDFG OT 1891 A; Volvo BM WB 101 (97303, BM Valmet und AWB-Achsen); ZF TE-ML 03E/05F/06K/06R/06S/17E/21F

		PU		PU	
Art. no. 1530030	20 Liters	1	Art. no. 1530010	205 Liters	1
Art. no. 1530020	60 Liters	1	Art. no. 1530000	Tank	1

Unifluid Plus Spezial



High performance gear/hydraulic oil in viscosity class 75W80

Its extremely low pour point (-48 °C) enables it to achieve excellent wet-braking performance even under the harshest operating conditions and temperatures. It provides the highest possible wear protection, reduced friction resulting in lower fuel consumption and, simultaneously, also prevents noise from wet brakes. Unifluid Plus Spezial can also be utilised in automatic transmissions, hydraulic systems, torque converters and the wet brakes of tractors and work machinery (VOLVO WB-102) where an SAE 75W80 is required.

Can be used with:

API GL-4; AGCO/ALLIS Powerfluid 821 XL; CLAAS RENAULT AGRICULTURE; CASE MAT 3540/3526/3525/3505/ MS 1209/1207/1206; DIN 51524 T3 HVLDP; Ford ESN-M2C134D/FNHA-2-C-201.00; John Deere J20D; Kubota UDT²/UDT; MC CORMICK HTX; Valtra G2-B10/G2-08; Massey Ferguson M 1145/1143; New Holland NH 410C/B; Volvo 97304/WB102/97303/WB101; ZF TE-ML 03E/05F/06D/06K/06N/06R/17E/21F

		PU		PU	
Art. no. 1520030	20 Liters	1	Art. no. 1520010	205 Liters	1
Art. no. 1520020	60 Liters	1	Art. no. 1520000	Tank	1

Unifluid T0-4 SAE 10



Super high performance power transmission and hydraulic oil

Designed for utilisation in axle drive units/end drive units, lateral drive units, powershift transmissions, oil bath brakes, multi-disc clutches, (hydraulic) systems and components in work machinery/construction machines and tractors. It provides the highest possible wear protection and optimises the friction behaviour, thereby preventing noise development in wet brakes and clutches. It can additionally be utilised as a hydraulic oil in Caterpillar machines (for CAT HYDO ADVANCED 10).

Can be used with:

Allison C-4; CAT TO-4/TO-4M/TO-2/TDTO; Komatsu KES 07.868.1; ZF TE-ML 03C; Eaton Vickers I-280-S/M-2950-S/ISO VG 32

		PU		PU	
Art. no. 1551030	20 Liters	1	Art. no. 1551010	205 Liters	1
Art. no. 1551020	60 Liters	1	Art. no. 1551000	Tank	1

Unifluid TO-4 SAE 30



Super high performance power transmission oil and hydraulic oil

which has been designed for utilisation in axle drive units/end drive units, lateral drive units, powershift transmissions, oil bath brakes, multi-disc clutches, (hydraulic) systems and components in work machinery/construction machines and tractors. It provides the highest possible wear protection and optimises the friction behaviour, thereby preventing noise development in wet brakes and clutches.

Can be used with:

API GL-4, API CF; Allison C-4/TES-489; CAT TO-4/TO-4M/TO-2; DANA OHTM-TO 30; Komatsu KES 07.868.1; ZF TE-ML 03C/07F; Eaton Vickers I-280-S/M-2950-S/ISO: 100

		PU			PU
Art. no. 1553030	20 Liters	1	Art. no. 1553010	205 Liters	1
Art. no. 1553020	60 Liters	1	Art. no. 1553000	Tank	1

Unifluid TO-4 SAE 50



Super high performance power transmission oil and hydraulic oil

which has been designed for utilisation in axle drive units/end drive units, lateral drive units, powershift transmissions, oil bath brakes, multi-disc clutches, (hydraulic) systems and components in work machinery/construction machines and tractors. It provides the highest possible wear protection and optimises the friction behaviour, thereby preventing noise development in wet brakes and clutches.

Can be used with:

API CF, API MT-1; Allison C-4; CAT FD-1/TO-4/TO-4M/TO-2; Komatsu KES 07.868.1; ZF TE-ML 03A/03C/04A/07D/07F; Eaton Vickers I-280-S/M-2950-S

		PU			PU
Art. no. 1535030	20 Liters	1	Art. no. 1535010	205 Liters	1
Art. no. 1535020	60 Liters	1	Art. no. 1535000	Tank	1

Unifluid TO-4 SAE 60



Super high performance power transmission oil and hydraulic oil

which has been designed for utilisation in axle drive units/end drive units, lateral drive units, powershift transmissions, oil bath brakes, multi-disc clutches, (hydraulic) systems and components in work machinery/construction machines and tractors. It provides the highest possible wear protection and optimises the friction behaviour, thereby preventing noise development in wet brakes and clutches.

Can be used with:

API CF, API MT-1; Allison C-4; CAT FD-1/TO-4M/TO-4; Komatsu KES 07.868.1; ZF TE-ML 03C

		PU			PU
Art. no. 1536030	20 Liters	1	Art. no. 1536010	205 Liters	1
Art. no. 1536020	60 Liters	1	Art. no. 1536000	Tank	1

Unifluid ZF 20W40



High performance gearbox oil

For ZF axles with self-locking differentials, gearboxes, transmissions (also with wet brakes and clutches), hydraulic systems etc., recommended in work machinery and construction machines which are exposed to very high thermal loads. It provides the highest possible wear protection and, at the same time, excellently reduces noise from wet brakes. The oil must never be mixed with standard limited slip differential oils (LS oils) SAE 90/85W90

Can be used with:

API GL-4; SAE 20W40; DIN 51524 HVL P; SDF UTTO/SDF Spezial UTTO/UTTO Ambra VT; AGCO Powerfluid 821 XL/Q-1826; Akcela Multi Trans; Allison C-4; CAT TO-2; Denison UTTO/THF; CASE MS 1210-1209/1207/1206; CASE IH Hy-Tran Plus; CNH MAT 3540/3526/3525/3510/3509/3505; Fendt FNHA-2-C-201.00/200.00/Fendt Vario; Ford ESN-M2C134-D/C/B/A/86-C/B/A/053A; HCE-102/102W; John Deere JDM J20D/C/B/A/21A/JDM 3000; Komatsu KES 07.866; MIL-L-2105; Kubota UDT Fluid/UDT HD/UDT2; Massey Ferguson CMS M1145/1143/1141/1135/1127/1110; New Holland WB 410B/C; Renault G.A.12/THFI/SDFG OT 1891A/B/Hydrograde 1; Valtra G2-08/410A/B/C/XT60; Volvo WB102(97307)/WB101(97305); ZF TE-ML 02A/03E/03F/03L/05F/06B/06D/06E/06F/06H/06K/06M/06N/06P/06R/06T/17E/21A/21F/21G;

		PU			PU
Art. no. 1540030	20 Liters	1	Art. no. 1540010	205 Liters	1
Art. no. 1540020	60 Liters	1	Art. no. 1540000	Tank	1

Unifluid PF-Z SAE 75W85



Premium high-performance transmission fluid/hydraulic fluid (UTTO), also for CVT transmissions!

Unifluid PF-Z SAE 75W85 is a premium transmission fluid/hydraulic fluid for utilisation in transmissions with wet brakes and/or clutches (also CVT transmissions!), axles (according to API GL-4), converters, automatic transmissions, hydrostatic drive units and hydraulic systems in the most modern agricultural machines/construction machinery and industrial floor trucks under the most severe operating conditions. It ensures excellent deceleration values, precise response behaviour with continuously high performance and also prevents noise development over the duration of the entire oil change interval. In addition, the modern additive technology thereby guarantees the best possible protection for the components involved. Furthermore, it can be utilised in hydraulic systems when an HVL PD in viscosity class ISO VG 46/VG 68 is required.

Can be used with:

API GL-4, GL-5 (low torque); SAE J300: 10W-30; SAE J306: 75W85; DIN 51524-3 HVL PD ISO VG 46/VG68; AGCO Powerfluid 821 XL/Q-1826/Q-189 (Whitefarm); Allison C-4; CASE MS 1230/1210/1209/1207/1206; CASE IH Hy Tran Plus; CAT MTO/TO-2; CLAAS; CNH MAT 3540/3526/3525/3510/3509/3506/3505; Ford M2C134D/-C|86-C/B/A|53A|48C3|41B; Denison UTTO/THF; Fendt FNHA2200.00/201.00/200.00/Vario/FWN 81001; John Deere JDM J20D/J20C/J20B/J20A/J21A/3000; Komatsu KES07.866/HCE-102/102W (Akcela Multi Trans); Kubota UDT2/UDT/UDT HD; Landini; Massey Ferguson M1145/1143/1141/1135/1129A/1127/1110; Mc Cormick HTX; MIL-L-2105/B (low torque); New Holland 410B WB NWH 410BC/FNHA-2C.201.00; Renault G.A.12/THFI/Hydrograde 1; SDFG OT 1891A/B/SDF UTTO/Special UTTO (UTTO Ambra VT); SAME-Transmission; Valtra G2-08/G2-B10/410A/B/C/XT60; Volvo VCE WB101(97305)/WB102(97307); ZF TE-ML 02A/03E/03F/03L/05F/06B/06D/06E/06F/06H/06K/06M/06N/06P/06R/06S/06T/17E/21A/21F/21G

		PU			PU
Art. no. 1538030	20 Liters	1	Art. no. 1538010	205 Liters	1
Art. no. 1538020	60 Liters	1	Art. no. 1538000	Tank	1

Unitrac STOU 10W30



Multi-functional oil (STOU) based on high-quality mineral base oils and the latest additive technology

For agricultural vehicles and work machinery. Due to its special additives, it therefore ensures excellent deceleration values and prevents noise development throughout the entire oil change interval. Gears, gearboxes and transmission/hydraulic systems in machinery which require HD engine oils according to SAE 10W30/15W30 or gearbox or transmission oils according to SAE 80W90 API GL-4 can alternatively be filled with Unitrac STOU 10W30/15W30.

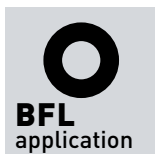
In the case of field tractors working „in combination“, which are utilising the same hydraulic attachments, it is advantageous when all these units are uniformly filled with Unitrac STOU 10W30/15W30. It is also possible to utilise this oil when using biodiesel (in accordance with DIN EN 14214).

Can be used with:

SAE classe 10W30/15W30;
ACEA E3; API CG-4, API SF, API GL-4; DIN 51524-3: HVLDP; Allison C-4; CAT TO-2; CNH MAT 3526/3525/3505/CNH 410 B; CASE MS 1230/1210/1209/1207; Fendt KDM 41.2011; Ford M2C 134-D/C/B/159-C/B/FNH 82009203/2/1; John Deere JDM J20D/C/J27; MAN 271; MIL-L-2104 D; Massey Ferguson CMS M1145/1144/1143/1139/1135; Daimler Truck DTFR 15B110 (MB 228.3)/MB 228.1/MB 227.1; New Holland NH 410B/030C; ZF TE-ML 05K/06A/06B/06C/06D/06F/06R/07B; Danfoss Hydro Static Trans Fluid; Sperry Vickers/Eaton M-2950-S/I 280-S

		PU			PU
Art. no. 1515030	20 Liters	1	Art. no. 1515010	205 Liters	1
Art. no. 1515020	60 Liters	1	Art. no. 1515000	Tank	1

Hydrostar BFL HV-AR 2268



Blue highly efficient multi-purpose hydraulic oil (BFL concept)

It has been specially developed for the EMKA BFL concept and impresses with its performance capabilities in the heaviest use in machinery for construction/forestry/agricultural and is highly efficient. Its high viscosity index of >190 and its extraordinary cold flow behaviour, caused by the very low pour point of -48 °C, enables the trouble-free utilisation in a very wide temperature range. Warm running phases and cold running phases are thereby eliminated and allow fuel reductions and time savings with maximum performance of the hydraulic components and simultaneous increase in efficiency. A high level of wear protection and corrosion protection is guaranteed under extreme or harsh conditions and loads in all operating statuses.

The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements.

Can be used with:

DIN 51524 Part 3 HVLP 22/32/46/68; DIN 51524 Part 2 HLP 22/32/46/68; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV | ASTM D6158; CETOP RP 91H-HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; General Motors LH-04-1; US Steel 127/136; FZG Test A/8.3/90: Load stage; CAT TO-4 SAE 10 Hydraulic application

		PU			PU
Art. no. 2123030	20 Liters	1	Art. no. 2123010	205 Liters	1
Art. no. 2123020	60 Liters	1	Art. no. 2123001	1000L IBC	1

Supertrac MGH 10W40



Multi-functional oil (STOU) for agricultural machines and work machinery based on the latest HC synthesis technology, for agricultural commercial vehicles and work machinery. Its special additives therefore enable it to ensure excellent deceleration values and thereby prevent noise development throughout the entire oil change interval. Gears, gearboxes and transmission/hydraulic systems in machinery which require HD engine oils according to SAE 10W40 or gearbox or transmission oils according to SAE 85W90 API GL-4 can alternatively be filled with Unitrac MGH 10W40.

In the case of field tractors working „in combination“, which are utilising the same hydraulic attachments, it is advantageous when all these units are uniformly filled with Unitrac MGH 10W40. It is also possible to utilise this oil when using biodiesel (in accordance with DIN EN 14214).

Can be used with:

SAE classe 10W40, replaces SAE10W, 20W20; ACEA E3; API CG-4, SF, GL-4; DIN 51524-3: HVLDP; Allison C-4; CAT TO-2; CNH MAT 3526/3525/3505/CNH 410 B; CASE MS 1230/1210/1209/1207; Fendt KDM 41.2011; Ford M2C 134-D/C/B/159-C/B/FNH 82009203/2/1/8200923; John Deere JDM J20D/C/J27; MAN 271; MIL-L-2104 D; Massey Ferguson CMS M1145/1144/1143/1139/1135; Daimler Truck DTFR 15B110 (MB 228.3)/MB 228.1/MB 227.1; New Holland NH 410B/030C; ZF TE-ML 05K/06A/06 B/06C/06D/06F/06R/07B; Danfoss Hydro Static Trans Fluid; Sperry Vickers/Eaton M-2950-S/I 280-S

PU			PU		
Art. no. 1510030	20 Liters	1	Art. no. 1510010	205 Liters	1
Art. no. 1510020	60 Liters	1	Art. no. 1510000	Tank	1

Supertrac MGH Spezial 10W40



Ultra high performance multifunctional oil (STOU) for construction machines, plant and work machinery

Supertrac MGH Spezial 10W40 is a latest generation, multifunctional oil for agricultural commercial vehicles, work machinery and construction machinery. The combination of state-of-the-art MC base oils and a special additive package therefore enables it to be utilised all year round as an engine oil for (turbo) diesel engines, in hydraulics, gears, gearboxes, transmissions, final drives/locking differentials with/without oil bath brakes and turbo clutches. The selected additive combination guarantees excellent deceleration values and prevents noise development throughout the entire oil change interval. Gears, gearboxes and transmission/hydraulic systems in machinery which require HD engine oils according to SAE 10W40 or gearbox or transmission oils according to SAE 85W90 API GL-4 can alternatively be filled with Supertrac MGH Spezial 10W40. In the case of field tractors working „in combination“, which are utilising the same hydraulic attachments, it is advantageous when all these units are uniformly filled with Supertrac MGH Spezial 10W40 in order to not impair the performance capabilities. It is also possible to utilise this oil when using biodiesel (in accordance with DIN EN 14214).

Can be used with:

SAE J300: SAE 10W40, replaces SAE10W, 20W20; SAE J306: SAE 80W90; ACEA E7, E3; API CI-4, CH-4, CG-4, CE, SJ, SF; API GL-3, GL-4; DIN 51524-3: HVL-P-D; Allison C-4; CASE MS 1230/1210/1209/1207/1206/1204; CAT TO-2; Deutz DQC III-10; CNH MAT 3526/3525/3509/3505; Fendt Vario; FNHA 2C-200.00/201.00; JCB Standard 4004; Daimler Truck DTFR 15B110 (MB 228.3)/MB 228.1; Steyer 397.88.0001; Ford M2C159-B/C/M2C134-D/M2C86-B/M2C48-C3/41-B; John Deere JDM J20D/C/J27D; MAN 3275/271; Massey Ferguson CMS M 1145/1144/1143/1139/1135/1127; CASE IH HY-Tran B6; MIL-L-2104D; New Holland 820092103/102/101/NH540B/526C/420A/410B/330H/330G/030C/024C; Valtra Super; ZF TE-ML 05K/06A/06B/06C/06F/06L/06R/07B; AFNOR NFE 48603 HV; Sauer Sundstrand/Danfoss Hydrostat; Sperry Vickers M2950/Eaton I-280-S

PU			PU		
Art. no. 1512030	20 Liters	1	Art. no. 1512010	205 Liters	1
Art. no. 1512020	60 Liters	1	Art. no. 1512000	Tank	1

Hydrostar HVI 1032



Multi-purpose hydraulic oil

Impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high viscosity index (>230) and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements.

Can be used with:

DIN 51524 Part 3 HVLP 10/15/22/32; DIN 51524 Part 2 HLP 10/15/22/32; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV; ASTM D6158 HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; FZG Test A/8.3/90: Load stage

		PU			PU
Art. no. 2125030	20 Liters	1	Art. no. 2125010	205 Liters	1
Art. no. 2125020	60 Liters	1	Art. no. 2125000	Tank	1

Hydrostar HVI 2268



Multi-purpose hydraulic oil for hydraulic oil drives outdoors

Its high viscosity index of 185 (VI) and its extraordinary cold flow behaviour, caused by the very low pour point of -52 °C, enables the trouble-free utilisation in a very wide temperature range. Initially from the (cold) start, it provides excellent protection for the hydraulic components, increased fuel efficiency and enhanced machine performance. It also minimises loss of power at high temperatures and always ensures stable performance under demanding conditions such as heavy loads or high pressure in extreme outdoor conditions. Consistent performance capability not only improves the system performance but also the attachment performance. Hydrostar HVI 2268 can also be utilised in industrial applications where high load capacity and durability are required.

Can be used with:

DIN 51524 Part 3 HVLP 22/32/46/68; DIN 51524 Part 2 HLP 22/32/46/68; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV; ASTM D6158; CETOP RP 91H-HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; General Motors LH-04-1; US Steel 127/136; FZG Test A/8.3/90: Load stage; CAT TO-4 SAE 10 Hydraulic application

		PU			PU
Art. no. 2127030	20 Liters	1	Art. no. 2127010	205 Liters	1
Art. no. 2127020	60 Liters	1	Art. no. 2127000	Tank	1

Hydrostar HVI 32100



Multi-purpose hydraulic oil

Impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high, natural viscosity index and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. Hydrostar HVI 32100 can be cleaned in the process through fine filtration without the active integral ingredients being lost.

Can be used with:

DIN 51524 Part 3 HVLP 32/46/68/100; DIN 51524 Part 2 HLP 32/46/68/100; ASTM D6158 HV; ISO 11158 HV; AFNOR NF E 48-603 HV; AIST 126+127; SAE MS1004; GM LS 2; FZG Test A/8.3/90: Load stage

		PU			PU
Art. no. 2128030	20 Liters	1	Art. no. 2128010	205 Liters	1
Art. no. 2128020	60 Liters	1	Art. no. 2128000	Tank	1

Hydrostar HVLP range 32, 46, 68



Hydraulic fluid for hydraulic drives outdoors

The shear-stable oils of the Hydrostar HVLP range are high-quality hydraulic oils, based on paraffinic base oils with a high natural viscosity index and state-of-the-art additive technology. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent wear and corrosion protection are what characterise these oils. Due to its high shear stability, it is preferably utilised in modern hydraulic systems under harsh, severe conditions and also thermal conditions. Due to its low flow point of -39 °C and the high viscosity index of 155 (VI), it indicates excellent cold-start behaviour and enables utilisation in a wide temperature range. The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Part 3 HVLP 22/32/46/68; ISO 11158 HV; ISO 6743-4 HV; ASTM D 6158 HV; AIST 126 + 127; Bosch Rexroth RE 90220; AFNOR NF E 48-603 HV; Denison Hydraulics HF-2/HF-1/HF-0; Fives Cincinnati Machine P-70; Eaton Brochure 694 for 35VQ25A; Eaton Vickers I-286 S; FZG-Test A 8,3/90/12. Stage; GM LS-2; JCMAS PO41 HK; MISTA Sp. z.o.o.-RD130/RD165C/H/RD200H; SAE MS1004

HVLP 32			HVLP 46			HVLP 68		
Art. no.	Volume	PU	Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 2126330	20 Liters	1	Art. no. 2126030	20 Liters	1	Art. no. 2126530	20 Liters	1
Art. no. 2126320	60 Liters	1	Art. no. 2126020	60 Liters	1	Art. no. 2126520	60 Liters	1
Art. no. 2126310	205 Liters	1	Art. no. 2126010	205 Liters	1	Art. no. 2126510	205 Liters	1
Art. no. 2126300	Tank	1	Art. no. 2126000	Tank	1	Art. no. 2126500	Tank	1

High performance hydraulic oil HLP range 32, 46, 68



EP alloyed hydraulic fluid

The oils in the high performance HLP range are classic HLP hydraulic oils. These EP-alloyed mineral oils possess a high natural viscosity index, good air separation characteristics and water separation properties and provide excellent wear protection and corrosion protection. They are considered to be high quality paraffin-based solvent refined oils with anti-corrosive, anti-foaming and anti-oxidation additives which have been specifically designed for modern hydraulic systems and therefore have a wide range of applications within the entire industry. They can be utilised for all lifting equipment in commercial vehicles, devices and appliances, precision hydraulics in machine tools, hydraulic regulators or controllers and torque converters, as well as for all hydraulic systems where HLP rated pressure fluids are specified. The viscosity specifications of the machine manufacturer must be observed.

Can be used with:

DIN 51524 Part 2 HLP 32/46/68; ISO 6743-4; FZG Test A/8.3/90 10; ATLAS COPCO; Bosch Rexroth RE 90220-01; Bumech (HLP 46/HLP 68); Cincinnati Maschine P-68/P-69/P-70; Denison HF-2/HF-1/HF-0 | FAMUR (HLP 68); FERRIT; MAG; PONAR-SILESIA; ZETOR (Proxima/Proxima Plus/Proxima Power/Fortera/HLP 32/HLP 46)

HLP 32			HLP 46			HLP 68		
Art. no.	Volume	PU	Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 2156070	1 Liter	12	Art. no. 2157070	1 Liter	12			
Art. no. 2156030	20 Liters	1	Art. no. 2157050	5 Liters	4			
Art. no. 2156020	60 Liters	1	Art. no. 2157030	20 Liters	1			
Art. no. 2156010	205 Liters	1	Art. no. 2157020	60 Liters	1			
Art. no. 2156602	Tank	1	Art. no. 2157010	205 Liters	1			
			Art. no. 2157000	Tank	1			
HLP 32			HLP 46			HLP 68		
Art. no.	Volume	PU	Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 2158050	5 Liters	4						
Art. no. 2158030	20 Liters	1						
Art. no. 2158020	60 Liters	1						
Art. no. 2158010	205 Liters	1						
Art. no. 2158000	Tank	1						

Hydrostar HVLP-D range 32, 46, 68



Detergent hydraulic fluid for hydraulic drives outdoors

The shear-stable oils of the Hydrostar HVLP-D series are high-quality hydraulic oils based on paraffin base oils with a high natural viscosity index and the latest additive technology. These oils are characterized by their excellent air and water separation properties, which largely exclude the formation of foam, and their excellent protection against wear and corrosion. Due to its high shear stability, it is preferably used in modern hydraulic systems under severe, including thermal conditions. Particularly suitable for systems that are operated outdoors and where condensed water must be expected as contamination. Due to its low pour point up to -42°C and the high viscosity index of 155 (VI), it has excellent cold start behavior and can be used in a wide range temperature range. The viscosity specifications of the machine manufacturer must be observed.

Can be used with:

DIN 51524 Part 3 HVLPD 32/46/68; ISO 11158 HV; ISO 6743-4 HV; ASTM D 6158 HV; AIST 126 + 127; Bosch Rexroth RE 90220; AFNOR NF E 48-603 HV; Denison Hydraulics HF-2/HF-1/HF-0; Fives Cincinnati Machine P-70; Eaton Brochure 694 for 35VQ25A; Eaton Vickers I-286 S; FZG-Test A 8,3/90/12th stage; GM LS-2; JCMAS PO41 HK; MISTA Sp. z.o.o.-RD130/RD165C/H/RD200H; SAE MS1004; JCMAS PO41 HK; MISTA Sp. z.o.o.-RD130/RD165C/H/RD200H; SAE MS1004

HVLP-D 32			HVLP-D 46			HVLP-D 68		
Art. no.	Capacity	PU	Art. no.	Capacity	PU	Art. no.	Capacity	PU
Art. no. 2128330	20 Liters	1	Art. no. 2128430	20 Liters	1	Art. no. 2128230	20 Liters	1
Art. no. 2128310	205 Liters	1	Art. no. 2128420	60 Liters	1	Art. no. 2128220	60 Liters	1
Art. no. 2128000	Tank	1	Art. no. 2128410	205 Liters	1	Art. no. 2128210	205 Liters	1
			Art. no. 2128400	Tank	1	Art. no. 2128200	Tank	1

Hydrostar HLP-D range 22, 32, 46, 68



Detergent hydraulic fluid

The oils of the Hydrostar HLP-D range are high-quality hydraulic oils, made from solvent-refined base oils with a high natural viscosity index and effective additives. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent wear and corrosion protection are what characterise these oils. Ideally suited for utilisation in modern hydraulic systems throughout the whole industry, for all lifting devices in commercial vehicles, devices and equipment, hydraulic regulators and torque converters, as well as for all hydraulic systems. Particularly suitable for systems which are intended to be operated outdoors and where contamination with condensate water can be calculated for. The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Part 2 Type HLP-D; ISO 11158; ISO 6743-4; Bosch Rexroth RE 90220; Bumech; Denison Hydraulics HF-2/HF-1/HF-0; FAMUR; FERRIT; FZG-Test A 8,3/90/12th stage; MAG Cincinnati Machine P-69; PONAR-SILESIA

HLP-D 22			HLP-D 32		
Art. no.	Capacity	PU	Art. no.	Capacity	PU
Art. no. 2145050	5 Liters	4	Art. no. 2146050	5 Liters	4
Art. no. 2145030	20 Liters	1	Art. no. 2146030	20 Liters	1
Art. no. 2145020	60 Liters	1	Art. no. 2146020	60 Liters	1
Art. no. 2145010	205 Liters	1	Art. no. 2146010	205 Liters	1
Art. no. 2145000	Tank	1	Art. no. 2146000	Tank	1

HLP-D 46			HLP-D 68		
Art. no.	Capacity	PU	Art. no.	Capacity	PU
Art. no. 2147050	5 Liters	4	Art. no. 2148050	5 Liters	4
Art. no. 2147030	20 Liters	1	Art. no. 2148030	20 Liters	1
Art. no. 2147020	60 Liters	1	Art. no. 2148020	60 Liters	1
Art. no. 2147010	205 Liters	1	Art. no. 2148010	205 Liters	1
Art. no. 2147000	Tank	1	Art. no. 2148000	Tank	1

Hydrostar HES



Environmentally friendly multi-purpose hydraulic oil (HES) based on synthetic esters
 Rapidly biodegradable, based on renewable raw materials (> 50%) and distinguished with the European Environmental Label (EEL). Due to its multigrade characteristics (VG 32-VG 68), it is optimally suited for utilisation under the highest requirements in mobile and stationary hydraulic systems in construction, water, agriculture and forestry, where there could be a hazard for the environment due to leakage and where a hydraulic oil according to ISO 15380 (HEES) is recommended. The multi-range characteristics of the oil also enable grade rationalisation. When converting over to Hydrostar HES, the conversion guidelines must be observed in accordance with ISO 15380.

Can be used with:
 ISO 15380: HEES; ISO VG 32/VG 46/VG 68;
 EU Ecolabel (EEL / Euro Margerite);
 Swedish Standard SS15 54 34

		PU			PU
Art. no. 2220030	20 Liters	1	Art. no. 2220010	205 Liters	1
Art. no. 2220020	60 Liters	1	Art. no. 2220000	Tank	1

Hydrostar AOH 46



Environmentally friendly multigrade hydraulic oil based on synthetic polyalphaolefins (PAO)
 Hydrostar AOH 46 is a rapidly biodegradable hydraulic oil which is based on synthetic polyalphaolefins. Due to its multigrade characteristics (VG 32- 68), it is optimally suited for utilisation under the highest requirements in mobile and stationary hydraulic systems in construction, water, agriculture and forestry, where there could be a hazard for the environment due to a leakage. The multi-range characteristics of the oil also enable grade rationalisation. When converting over to Hydrostar AOH 46, the conversion guidelines must be observed in accordance with ISO 15380.

Can be used with:
 DIN 51524-3 (HVLDP) VG 32/46/68; ISO 6743-4 (HEPR)

		PU			PU
Art. no. 2223030	20 Liters	1	Art. no. 2223000	1.000 L	1
Art. no. 2223010	205 Liters	1			

Hydrostar HES GSE range



Environmentally friendly hydraulic oil (HEES) based on synthetic esters
 Hydrostar HES GSE 46 is a synthetic, rapidly biodegradable hydraulic oil (>70% in 28 days) which is based on saturated esters. It has been optimally designed for utilisation under the highest requirements in mobile and stationary hydraulic systems in construction, water, agriculture and forestry, where there could be a hazard for the environment due to a leakage and a hydraulic oil is recommended in accordance with ISO 15380 (HEES). It can be utilised in a wide range of operating temperatures due to its high viscosity index with excellent flow characteristics. When converting over to Hydrostar HES GSE 46, the conversion guidelines must be observed in accordance with ISO 15380.

Can be used with:
 ISO 15380: HEES; ISO 11158 HV;
 DIN 51524-3 HVLDP 22/32/46/68;
 Bosch Rexroth RE 90221;
 FZG Test, A/8.3/90, DIN 51354 load stage 12

		PU
Art. no. 2225130	20 Liters	1
Art. no. 2225120	60 Liters	1
Art. no. 2225110	205 Liters	1
Art. no. 2225100	1000L IBC	1

GSE 32		PU
Art. no. 2225230	20 Liters	1
Art. no. 2225220	60 Liters	1
Art. no. 2225210	205 Liters	1
Art. no. 2225201	1000L IBC	1

GSE 46		PU
Art. no. 2225030	20 Liters	1
Art. no. 2225020	60 Liters	1
Art. no. 2225010	205 Liters	1
Art. no. 2225001	1000L IBC	1

GSE 68		PU
Art. no. 2225330	20 Liters	1
Art. no. 2225320	60 Liters	1
Art. no. 2225310	205 Liters	1
Art. no. 2225301	1000L IBC	1

Windscreen Antifreeze



Anti-freeze concentrate for the windshield washer system

Scheiben Anti-Frost (Windscreen Antifreeze) is a biodegradable and methanol-free concentrate that prevents the washer fluid for windshields and headlights from freezing in frost and effortlessly removes dirt. But it can also be used in summer and ensures a clear view here too. It can be used for all window and headlight cleaning systems and is also suitable for fan jet nozzles and polycarbonate windows. The concentration is diluted to the desired freezing point by dilution with water. Compatibility with paint, rubber, polycarbonate, metal ect. has been tested and is given. Biodegradable, protective down to -60°C , and suitable for use year-round.

Colour: blue

Your benefit:

- Biodegradable
- Frost protection down to -60°C (undiluted).
- Suitable for use in winter and summer.

Mixing ratio (in parts)			Art. no.	Volume	PU
Antifreeze	Water	Protection			
2	1	-30°C	Art. no. 6320770	1,5 Liters	18
1	1	-20°C	Art. no. 6310550	5 Liters	4
1	2	-10°C	Art. no. 6320333	25 Liters	1
1	3	-5°C	Art. no. 6320220	60 Liters	1
			Art. no. 6320113	210 Liters	1

FROST-Stop MK12++



SI-OAT-coolant additive concentrate

Frost-Stop MK12 ++ is a full concentrate based on ethylene glycol for radiator protection and heat transfer agent with a silicon additive package for summer and winter operation, which enables maintenance-free protection against frost, overheating and rust formation (long-life radiator protection). It is a modern concentrate with high quality corrosion additives for engines and cooling systems, and meets the current requirements of many OEMs. Organic and silicate-containing technologies complement each other here in an excellent way (Si-OAT coolant). Very suitable for mixed fleets (cars, trucks, work machines). Frost-Stop MK12 ++ is excellent for cast iron, aluminum, iron alloys or a combination of the metals mentioned and can be used in cooling systems made of aluminum or copper alloys. The product is free of borate, nitrite, amine, phosphate and is backwards compatible with G12+/G11. **Colour: pink/purple.**

Your benefit:

- Improved heat transfer.
- Long-life radiator protection, prevents foam formation.
- Very good compatibility with hose and sealing materials.
- Silicate stabilized, i.e. no gel formation or flocculation of the mixture.

Can be used with:

AFNOR NF-R 15-601; AS 2108:2004; ASTM D3306/D4656/D4985; AUDI (G 012 A8G M1); Bentley; BS 6580; Bugatti; CHINA GB 29743-2013; CUMMINS CES 14603; CUNA NC 956-16; Deutz CC-14; JIS K 2234:2006; Lamborghini; Liebherr Min LH-01-COL3A; MAN 324 Si-OAT; MB 325.5/325.6; MB 000 989 28 25; MTU MTL 5048; Porsche; SAE J 1034; SANS 1251:2005/SH 0521-1999; SCANIA TB 1451; Seat (G 012 A8G M1); Skoda (G 012 A8G M1); Toyota 002721LLAC; UNE 26361-8; VW TL 774-G (G12 ++ /G 012; A8G M1)/TL 774-F (G12+)/TL 774-C (G11) from YOM 2008

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 6318077	1 Liters	12	Art. no. 6318020	60 Liters	1
Art. no. 6318050	5 Liters	4	Art. no. 6318010	200 Liters	1
Art. no. 6318030	20 Liters	1			

FROST-Stop MK13



Lobrid-SI-OAT-coolant additive concentrate

Frost-Stop MK13 is a 1.2-ethanediol-based full concentrate of antifreeze and heat transfer agent that is formulated with a mixture of organic and mineral inhibitors (Lobrid). It offers protection against freezing, overheating and long-term protection against corrosion (Si-OAT coolant). It is a modern radiator protection and heat transfer agent and meets the current requirements of the VW/AUDI group and others manufacturers. The product is free of borate, nitrite, amine and phosphate. Recommended use concentration: 50% coolant concentrate and 50% water = approx. -35°C antifreeze. **Colour: pink/purple.**

DANGER! When determining the freezing point using a refractometer, an incorrect result is displayed here due to the glycerin content!

Can be used with:

ASTM D 3306; AUDI G 013 A8J M1 (G13); BS 6580:2010; CUNA NC 956-16; Dacia 77 11 428 133; Renault 77 11 428 133; Seat G 013 A8J M1 (G13); Skoda G 013 A8J M1 (G13); VW TL 774-J; VW G 013 A8J M1 (G13)

Art. no.	Volume	PU	Art. no.	Volume	PU
6319075	1,5 Liters	12	6319020	60 Liters	1
6319050	5 Liters	4	6319010	200 Liters	1
6319025	20 Liters	1			

FROST-Stop FOPR extra



OAT Kühlmittelzusatz Konzentrat

Frost-Stop MK FOPR extra is an OAT-full concentrate radiator protection and heat transfer agent which, with a combination of special inhibitors, offers the cooling system maintenance-free protection against frost, overheating and rust formation for summer and winter operation. It is a modern concentrate with high-quality anti-corrosion additives for the engine and cooling system and offers long-lasting anti-corrosion protection even under the highest thermal stresses. **Colour: pink**

Your benefit:

- Improved heat transfer.
- Provides permanent functional reliability.
- Environmentally friendly due to very long service life.
- Optimum protection against corrosion, cavitation and deposits

Can be used with:

Ford WSS-M97B44D; GM 6277M (OPEL); Renault Typ D

Art. no.	Volume	PU	Art. no.	Volume	PU
6319275	1,5 Liters	12	6319220	60 Liters	1
6319250	5 Liters	4	6319210	200 Liters	1
6319230	20 Liters	1			

FROST-Stop MK 48 Extra



Radiator protection concentrate

Frost-Stop MK 48 Extra is a nitrite, amine and phosphate-free, full concentrate coolant based on ethylene glycol for summer and winter use with frost and rust protection effects (all year round use). The hybrid inhibitor package based on silicate, borate and salts of organic acids makes it suitable for aluminum, light metal and gray cast iron engines (note manufacturer's instructions).

Recommended use concentration: 1 part concentrate and 1 part water, whereby frost protection down to approx. -37°C is achieved, but at least 33% frost protection and 67% water to achieve reliable protection down to -20°C. **Color: blue-green**

Can be used with:

AFNOR NF R15-601; AS 2108-2004; ASTM D 3306/D 4985; BS 6580; SAE J 1034; BMW LC-87/83 19 2 211 191; Ford 1 047 035/5 016 438; GM 90297545; Jenbacher TA-Nr. 1000-0200; Liebherr Minimum LH-00-COL3A; MAN 324 NF/Pritarder; MB 325.0/MB 000 989 08 25; MTU MTL 5048; Opel/Vauxhall B 040 0240/19 40 656; Porsche 924, 928, 944, 968; Saab 6901599; VW-Gruppe G 48 (G11) TL 774 C/Audi/Seat/VW G 011 A8C A1

Art. no.	Volume	PU	Art. no.	Volume	PU
6318175	1,5 Liters	12	6318120	60 Liters	1
6318150	5 Liters	4	6318110	208 Liters	1
6318130	20 Liters	1	6318100	1000 L IBC	1

FROST-Stop Plus SF



Long time radiator protection

Frost-Stop Plus SF is a nitrite, phosphate, amine and silicate-free, ethylene glycol-based OAT full concentrate radiator protection and heat transfer fluid for summer and winter operation with frost and rust protection (all-year use). It is excellent for use in cast iron, aluminum or a combination of both metal engines and in aluminum or copper alloy cooling systems and raises the boiling point of water.

Recommended use concentration: With the recommended application concentration of 50% concentrate and 50% water, frost protection is achieved down to approx. -37°C. Frost protection down to -68°C is possible with a maximum of 69% concentrate and 31% water. **Colour: pink/purple.**

Can be used with:

AFNOR NF-R 15-601 Type 1; AS 2108-2004; ASTM D 3306 Type 1/4985; ASTON MARTIN; BS 6580:2010; CHRYSLER MS 9176; CHINA GB 29743-2013; CLAAS; CNH MAT 3624; CUMMINS 85T8-2/90T8-4/CES 14603; CUNA NC 956-16; DAF 74002; DEUTZ DQC-CB-14; FORD ESD/ESE-M97B49-A/WSS-M97B44-D; FVV STANDARDS Heft R443; GM 1899 M/6277 M; ISUZU; GME QL 130100; HYUNDAI >1982; IVECO >01/2014; JAGUAR >1999; JASO M325; JENBACHER TA 1000-0201; KIA >1991; JIS K2234:2206; JOHN DEERE JDM H5; KOMATSU; KSM 2142; LAND ROVER >1998; LEXUS >1994; LIEBHERR MD1-36-130; LEYLAND TRUCKS LTS 22 AF10; MACK EC1 (A4.05.09.01; MAN 324 SNF (nicht für blaue Silikon-Kühlmittelschläuche)/B&W D36560; MAZDA MEZ MN 121 D; MB 325.3; MINI BMW LC-07; MITSUBISHI >1982; MTU MTL 5048; NISSAN >1982; ÖNORM V5123; OPEL GM QL 130100; SAE J 1034; PEUGEOT >1993; PORSCHE TL 774-D/F; RENAULT Type D; SAAB >2001; SANS 1251:2005; SCANIA TB 1451; SETRA 325.3; SMART >11/2014; SUBARU >1977; SUZUKI >1981; TOYOTA >1978; UNE 26361-88/1; VOLVO VCS; AUDI/BENTLEY/PORSCHE/SEAT/SKODA/VW TL 774 D (G12) und TL 774 F (G12+)

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 6317777	1,5 Liters	12	Art. no. 6317220	60 Liters	1
Art. no. 6317350	5 Liters	4	Art. no. 6317210	208 Liters	1
Art. no. 6317330	20 Liters	1	Art. no. 6317100	1000 L IBC	1

FROST-Stop MK VG 11



SI-OAT-EVO coolant additive concentrate

Frost-Stop MK VG 11 is a Si-OAT-Evo full concentrate radiator protection and heat transfer agent which, based on ethylene glycol, offers the cooling system maintenance-free protection against frost, overheating and rust formation for summer and winter operation. It is free from 2-ethylhexanoic acid, borate, phosphate, nitrite and amine and therefore offers long-lasting corrosion protection even under the highest thermal stresses. **Colour: pink/purple**

Can be used with:

AS 2108:2004; ASTM D3306/1384/4340/4985/6210; AUDI/Bentley/Bugatti/Lamborghini/Porsche/Seat/Skoda/VW; TL-774-C(G11)/-D(G12)/-F(G12+/-G(G12+/-J(G13)/-L(G12evo); BS 6580:2010; GB 29743-2013; CUNA NC 956-16|NF R15-601; FVV R530:2005; JIS K2234:alle; KS M2142; BT-PS-606A; DCSEA 615/C; TL 6850-0038; E/L-1415b; FS 6850-0951; FSD 8704; NATO S-759; ÖNORM V5123; PN-C40007:2000; SAE J1034; SANS 1251:2005; Empa 170'803; UNE 26-361-88/1;2G alle; Alfa Romeo'76;Aprilia; Aston Martin;Atlas;Bentley '80-'05; BMWMini LC-87/-97/-18;BYD; CNH MAT3624; CAT GCM34;Chevrolet ab'01; Chrysler alle; Citroen ab'93; CLAAS; CNH Ind. Iveco 18-1830; Cummins 85T8-2/CES14603/14439; Dacia ab'05; Dae-woo alle; DAF MAT74002;Daihatsu ab'79; Deutz DQC CA-14/CB-14/CC-14; Deutz Fahr alle; Dodge ab'11; Ducati; Eicher alle; Faun; Fendt alle; Ferrari '79-'09,ab'10; Fiat '82-'04,ab'05;Ford bis'97,ab'98/ESD-M97B49-A/B44-D/B57-A1; Fuso alle;GM GMW3420/B0401065;Gilera; GMC alle; Hino alle; Hitachi; Honda ab'83 (auch Bike); Huerlimann to 03./from 04.'17; Hyundai ab'82; Innio/Jennbacher TA 1000-0200; Iribus; Irizar alle; Isuzu;Iveco ab 01.#14/18-1830;Jaguar '86-'99,ab'99/CMR 8229/STJLR 651.5003/E-Vehicles; Jeep;J I; Case JIC-501; John Deere alle; Kawasaki; Kia ab'91; Kobelco; Komatsu; KTM; Kymco; Lada alle; Lamborghini Traktors; Lancia '76-'05, ab'05; Land Rover ab'98/E-Vehicles/STJLR 651.5003; Lexus ab'94; Liebherr alle; Lotus'80 .99,ab'00;Mahle; MAN 175D/324NF/SNF/Si-OAT/Si-OATevo; Mazda ab'77; MB/Setra 325.0/.3/.5/.6/326.0(RM)/.3/.6; Mitsubishi(MH) alle; MTU MTL 5048; MWM alle; Nissan Opel ab'82; ab'75.00,ab'01/B040240/GMEL1301; Perkins; Peugeot ab'93/Motorbike; Piaggio; Renault ab'95/Trucks alle; Rolls Royce ab'98; Rover ab'82/Saab ab'75-.00,ab'01/6901599; Same alle; Steyer Motors|Smart alle/Subaru ab'77; Suzuki ab'81/ Motorbike; SYM; Tadano;Tesla alle bis'20; TGB;Toyota alle Diesel ab'15/alle Benzin ab'78; Triumph; DU Nissan Diesel alle; Van Hool; Vauxhall GMEL1301/GMW3420; Volvo TR-31854114-002/alle/Trucks alle; Yamaha; Yanmar

Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 6319175	1,5 Liters	12	Art. no. 6319120	60 Liters	1
Art. no. 6319150	5 Liters	4	Art. no. 6319110	200 Liters	1
Art. no. 6319130	20 Liters	1			

Lagerstar EP-2



EP long life grease for rolling and sliding bearings

A high-quality, ageing-resistant and resilient EP lithium soap-type grease for the lubrication of rolling bearings and plain bearings in industry, motor vehicles and in working machinery in construction, forestry and agriculture. It is also suitable for use in BEKA-MAX, Lincoln and Delimon HGV central lubrication systems.

Can be used with:

MAN 283 Li-P2; Daimler Truck DTR 33B120 (MB 267.0); Volvo Std 1277.18

Technical data:

- KP2K-30
- ISO 12924: L-XC(F)CIB 2
- NLGI Grade 2
- Drip point >180 °C

- Operating temperature -30/+120 °C, briefly at +130 °C
- Base oil viscosity at 40°C: 110 mm²/s
- Soap basis: Lithium
- VKA welding force 2600 N

				PU				PU	
Art. no. 4240683	Pull-Off	400 g	24	Art. no. 4240330	15kg	1			
Art. no. 4241484	System Reiner	500 g	30	Art. no. 4240220	25 kg	1			
Art. no. 4240550	Cartridge	4,5 kg	1	Art. no. 4240110	50 kg	1			
Art. no. 4241150	Bucket	4,5 kg	1	Art. no. 4240000	180 kg	1			

Lagerstar LIC



High temperature EP long life grease

Lithium complex-saponified high-temperature grease for very high mechanical and thermal loads. Ideally suited for the lubrication of rolling bearings and plain bearings on generators, electric motors, fans and ventilators. Lagerstar LIC is also used in wheel hubs and clutch release bearings.

Technical data:

- DIN 51825: KP2N-30
- ISO 12924: L-XC(F)DIB2
- Thickener: Lithiumcomplex (blue)
- NLGI Grade 2

- Operating temp: -30/+150 °C, momentarily: +180°C
- Drip point >260°C
- Walk penetration: 265 - 295
- VKA welding force: 3000 N

				PU				PU	
Art. no. 4263880	Pull-Off	400 g	24	Art. no. 4260130	15 kg	1			
Art. no. 4263884	System Reiner	500 g	30	Art. no. 4260220	25 kg	1			
Art. no. 4260150		5 kg	1	Art. no. 4260210	50 kg	1			

Lagerstar MOS



Long life EP lubricating grease with graphite and MoS² additives

A dark-coloured long life lubricating grease with dry-running properties for plain bearings/rolling bearings and other lubrication points with high mechanical stress factors in work machinery. It reduces the friction, effectively minimises noise and forms a load-bearing lubricating film on metal sliding surfaces through the solid additives, which thereby reduces wear.

Technical data:

- KP2K-30
- NLGI-Grade 2
- Operating temperature: -30/+130°C, max. +140°C

- Drip point: > 185°C
- Thickener: Lithium
- 4-Ball weld load: 3200 N
- Base oil viscosity at 40°C: approx. 155 mm²/s

				PU				PU	
Art. no. 4210683	Pull-Off	400 g	24	Art. no. 4210220	25 kg	1			
Art. no. 4210890	System Reiner	500 g	30	Art. no. 4210110	50 kg	1			
Art. no. 4210550		5 kg	1	Art. no. 4210000	180 kg	1			

Lagerstar STS

LAGERSTAR STS LANGZEIT EP-SCHWERLASTFETT MIT 3% MOLYBDÄNDISULFID AUF BASIS SYNTHETISCHER GRÜNDOLE

Lagerstar STS ist ein dunkeltes Langzeit-Schmierfett mit Notlauf Eigenschaften für Gleich- und extrem druck- und Stoßbelasteter Lagerungen in Arbeitsmaschinen. Die enthaltenen Feststoffzusätze (3%) lagern sich an den Gleitflächen ab und bilden eine neutrale Schmierfett Schicht in Form von Gitterstrukturen. Dadurch ergibt es sich besonders für selten nachgeschmierte Lager und schwer zugängliche Schmierstellen, auch unter erschwerten Betriebsbedingungen.

Spezifikationen:

- KPF2K-30
- ISO-L-NDDB 2
- NLGI-Klasse 2
- EP: 300 N/100 °C, kurzzeitig 1500°C
- Gitterpunkt ca. 190 °C
- Seifenbasis: Lithium
- WA-Schwerlast: 3800/4000 N
- Grundviskosität bei 40°C: ca. 800 mm²/s

Long term EP-Grease with 3% Molybdenum Disulphide

Lagerstar STS is a dark-colored, long-term lubricating grease with emergency running properties or plain/roller bearings and bearings in working machines that are subject to extreme pressure and shock loads. The solid additives contained (3%) are deposited on the sliding surfaces and form a neutral lubricating layer in the form of lattice structures. This makes it particularly suitable for bearings that are rarely relubricated and lubrication points that are difficult to access, even under difficult operating conditions.

Can be used with: MAN 285 Li-PF 2

Technical data:

- KPF2K-30
- DIN 12924: L-XC(F)CHB2
- NLGI Grade 2
- Operating temp. -30°C/+120°C max. +130°C
- Drip point >180°C
- Thickener: Lithium
- 4-Ball weld load: 3600 N
- Basic oil viscosity 40°C: 200 mm²/s

Art. no.	PU	Art. no.	PU
Art. no. 4110883	Pull-Off 400 g 24	Art. no. 4110000	180 kg 1
Art. no. 4110220	25 kg 1		

Lagerstar MFZ L 5%

LAGERSTAR MFZ L 5% LANGZEIT EP-SCHMIERFETT MIT 5% MOLYBDÄNDISULFID

Lagerstar MFZ L 5% ist ein dunkeltes Langzeit-Schmierfett mit Notlauf Eigenschaften für Gleich- und extrem druck- und Stoßbelasteter Lagerungen in Arbeitsmaschinen. Die rein mechanisch wirkenden Feststoffzusätze (5%) lagern sich an den Gleitflächen ab und bilden eine neutrale Schmierfett Schicht in Form von Gitterstrukturen. Dadurch hat dieses EP-Langzeit-Schmierfett ausgeprägte reibungsmindernde Eigenschaften.

Lagerstar MFZ L 5% entspricht der Caterpillar-Spezifizierung.

Spezifikationen:

- KPF2K-30
- NLGI-Klasse 2
- Einstufung: EP
- EP: 300 N/100 °C, kurzzeitig 1500°C
- Gitterpunkt ca. 190 °C
- Seifenbasis: Lithium
- WA-Schwerlast: >3000 N

Long term EP-Grease with 5% Molybdenum Disulphide

Lagerstar MFZ L 5% is a dark-colored, long-term lubricating grease with emergency running properties for plain/roller bearings and extremely pressure and shock-loaded bearings in work machines. The purely mechanical solid additives (5%) are deposited on the sliding surfaces and form a neutral lubricating layer in the form of lattice structures. As a result, this EP long-life lubricating grease has pronounced frictionreducing properties. Lagerstar MFZ L 5% meets Caterpillar specification.

Technical data:

- KPF2K-30
- NLGI Grade 2
- Operating temp. -30°C/+140°C briefly +150°C
- Drip point: >190°C
- Thickener Lithium
- 4-Ball weld load: >3000 N
- Basic oil viscosity: 800 mm²/s

Art. no.	PU	Art. no.	PU
Art. no. 4211083	System Reiner 500 g 20	Art. no. 4211100	180 kg 1
Art. no. 4211120	25 kg 1		

Lagerstar MEP

LAGERSTAR MEP HOCHHAFTENDE VERSCHLEISSCHUTZPASTE

Lagerstar MEP ist eine mit Metallpulver und Feststoffen vergütete Schmierpaste, die zur Schmierung von Einsteck-Werkzeugen und Verschleißbuchsen von Hydraulik- und Druckluft-Hämmern eingesetzt wird.

Bitte beachten! Es ist kein Schmierfett und darf nicht in Wälz- und Gleitlagern verwendet werden!

EUH208 - Enthält Benzolsulfonure, di-CTD-14-Alkyl-Derivate, Calciumsalze. Kann allergische Reaktionen hervorrufen.

EUH210 - Sicherheitsdatenblatt auf Anfrage erhältlich.

Spezifikationen:

- MF2 U-20 (NLGI-Klasse 2)
- EP: 120 N/1100°C
- Tropfpunkt > 250°C
- Seifenbasis: Aluminium-Röntgen
- Grundviskosität bei 40°C: ca. 350 mm²/s

Chisel paste

Lagerstar MEP is a lubricating paste modified with metal powder and solids, which is used to lubricate working tools and wear bushings on hydraulic and pneumatic hammers. Please note! > It is not a lubricating grease and must not be used in roller and plain bearings!

Technical data

- MF2U-20
- NLGI Grade 2
- Operating temp. -20°C/+1100°C
- Drip point: > 250°C
- Thickener: Aluminium complex
- Basic oil viscosity: 40°C: approx.. 350 mm²/s

Art. no.	PU	Art. no.	PU
Art. no. 4360883	Pull-Off 400 g 24	Art. no. 4360030	15 kg 1
Art. no. 4360884	Lube Shuttle 400 g 24	Art. no. 4360020	25 kg 1
Art. no. 4360783	Lincon 400 g 20		
Art. no. 4360990	500 g 30		

Lagerstar ZEN-VOG



High performance fluid grease for central lubrication systems

Specially developed for central lubrication systems in commercial vehicles. Furthermore, can also be utilised in gearboxes which are subjected to low to medium loads. It has been approved by Daimler-Benz (operating substances regulation 264), Willy Vogel and MAN (according to works standard 283-Li - P00) for use in HGV central lubrication systems.

Technical data:

- GP00/000K-50
- ISO-L-X-DCEB-00/000
- NLGI Grade 00/000
- Operating temperature: -50°C/+120°C

- Drip point: > 160°C
- Base oil viscosity at 40°C: 45 mm²/s
- Thickener: Lithium

Art. no.	Tube	900 g	20	PU
4320570				
4320450		5 kg	1	
4320335		18 kg	1	

Art. no.	50 kg	1	PU
4320110			
4320000	180 kg	1	

Lagerstar HPWR



(Salt-)Water resistant, Polymer Special-Grease

Lagerstar HPWR is a polymer special long-term lubricating grease for sliding/roller bearings and other lubricating points, which is particularly useful under critical conditions such as (salt) water, high humidity, vibrations, shock and shaking loads in vehicles, working machines and water pumps. Due to the high base oil viscosity, it has a pronounced adhesion capacity, which allows extended lubrication periods and ensures a long service life of the machines.

Technical data:

- DIN 51 502: KP2G-30
- ISO 12924: L-XC(F)BIB2
- NLGI Grade 2
- Color: fluorescent yellow ASTM D 217
- Operating temperature: -30°C/+110°C
- Drip point: >140°C IP 396
- Thickener: Calcium

- Basic oil: Mineral oil/Polymere
- Penetration: 265 – 295 ISO 2137
- 4-ball weld load: 2800 N DIN 51350:4
- Base oil viscosity 40°C: 920 mm²/s ASTM D 7152

Art. no.	500 g	30	PU
4250084			
4250035	System Reiner	18 kg	1

Lagerstar H.O.T.



High-Temperature grease for Roller- and Plain bearings

Lagerstar H.O.T. is a high-temperature lubricating grease based on mineral oil with a calcium sulfonate complex thickener of the latest generation with already integrated EP and AW additives. It is used in roller and plain bearings where high temperatures and extreme pressure and shock loads are present, such as in the construction industry, e.g. in road finishers, bitumen/asphalt mixing plants, working machines, crushing plants and other vehicles/plants where high temperatures can develop and also under adverse conditions and environmental influences operated (offroad and/or offshore). It can also be used in the steel industry on charging cranes, rotary kilns or electric rollers in hot rolling mills.

Technical data:

- DIN 51502: KP2N-30 | ISO 12924: L-XC(F)DIB2
- NLGI Grade 2
- Operating temp.: -30°C/+140°C, max. +180°C

- Drip point: >280°C
- Thickener: calcium sulfonate complex
- 4-ball weld load: 6500 N
- Base oil viscosity 40°C: 280 mm²/s

Art. no.	400 g	24	PU
4370683			
4370220	25 kg	1	

Emkotrenn Extra



Special concrete release agent

Emkotrenn Extra is a special release agent for utilisation in the construction industry and concrete industry. It contains special active ingredients for the highest requirements in concrete construction and can be utilised on all currently available formwork or shuttering surfaces. A stable and pressure-resistant release film is built up, which demonstrably prevents build-up even in inaccessible places and ensures easy, fast and, above all, material-friendly deshuttering work. It can be additionally utilised to protect against concrete caking on construction machinery and vehicles as well as on asphalt pavers and loading areas of HGVs which are transporting asphalt. Emkotrenn Extra is not aggressive to paints, plastics and metals and the product does not resinify. 1 litre of release agent is sufficient for approx. 60-70m² depending on the type of application and formwork or shuttering involved.

Technical data:

- Appearance: gold-yellow to brownish
- Colour: L2.5, DIN ISO 2049
- Odour: mild, typical for the product
- Density at 15°C: 0.870 Kg/m³
- DIN 51 757
- Viscosity at 40 °C: 9.5 mm²/s, DIN51 562- 1
- Flash point:> 130 °C, DIN EN ISO 2719
- Pour point: <-30 °C, DIN ISO 3016
- GIS Code BTM 20

			PU				PU
Art. no. 6115033	20 Liters	1		Art. no. 6115010	205 Liters	1	
Art. no. 6115020	60 Liters	1		Art. no. 6115000	Tank	1	

Emkotrenn MP 5433



Mixer protection

Special concrete release agent which prevents concrete and mortar from adhering to metal and painted surfaces on machines/vehicles which are involved in concrete production, processing and transport. Due to its special active ingredients, it builds up a stable protective film in a short time, which therefore also serves as corrosion protection and thereby also provides lasting protection for inaccessible areas. It is gentle on the material it is applied to and ensures quick and easy cleaning. Ideally, it should be applied to the still wet surface after cleaning by spraying at 4-6 bar using a flat spray nozzle. The product can also be utilised as a shuttering oil.

Technical data:

- Appearance: gold-yellow
- Density at 15 °C: 0.880 g/cm³
- Viscosity at 40 °C: 9 mm²/s
- Pour point: -25°C
- Flash point: >100 °C
- Solubility: not water-miscible

			PU				PU
Art. no. 6127033	20 Liters	1		Art. no. 6127000	Tank	1	
Art. no. 6127010	205 Liters	1					

Emkotrenn BTM-NW



Bitumen release agent - not water-miscible

Based on paraffin hydrocarbons. It is used in the asphalt industry to prevent caking on the mixing material. It should be applied undiluted.

Technical data:

Properties	Test method	Typical values	Unit
Appearance	Visual	Gold-yellow	-
Colour	DIN ISO 2049	L1.0	-
Odour	Sensory	Mild, typical for the product	-
Density at 15 °C	DIN 51 757	830	kg/m ³
Viscosity at 40 °C	DIN 51 562-1	4.0	mm ² /s
Flash point	DIN EN ISO 2719	> 100 °C	

			PU
Art. no. 6146030	20 Liters	1	
Art. no. 6146010	205 Liters	1	

Emkotrenn BTM



Bitumen release agent

Prevents sticking/caking of bitumen and hot or mastic asphalt in mixing plants, road pavers, road (pneumatic) rollers, tools and loading areas of HGVs. The product is based on hydrocarbons with additives and emulsifiers and also forms a stable emulsion even with hard water.

Mixing: Emkotrenn BTM is to be added to one part water while stirring.

> not vice versa!!

Then stir in the rest of the water. Mixing ratio: 1:10 to 1:20.

Technical data:

- Appearance: brownish
- Density at 15 °C: 0.900 g/cm³
- Viscosity at 40 °C: 30 mm²/s
- Pour point: -15°C
- Flash point: >100 °C
- Solubility: water-miscible

PU

Art. no. 6145033	20 Liters	1
Art. no. 6145020	60 Liters	1
Art. no. 6145010	205 Liters	1
Art. no. 6145000	Tank	1

Emkotrenn EST 45



Biodegradable concrete release agent

Emkotrenn EST 45 is a biodegradable special release agent for the concrete industry and can be utilised for all common formwork and shuttering or as mixer protection. It ensures easy and quick release of the formwork or shuttering and is not aggressive to polyurethane or two-component acrylic varnishes. However, it will attack polystyrene! It builds up a stable and pressure-resistant release film and also prevents build-up in inaccessible places. The product is to be applied undiluted by spraying with a flat-jet nozzle evenly and sparingly (avoid puddles and remove any immediately). 1 litre is sufficient for approx. 40-70 m² depending on the type of application and formwork or shuttering involved.

Technical data:

- Appearance: gold-yellow
- Density at 15 °C: 900 Kg/m³ DIN 51 757
- Viscosity at 40 °C: 9.5 mm²/s DIN 51 562-1
- Flash point:> 180°C DIN EN ISO 2719
- Pour point: <-10 °C DIN ISO 3016
- Biological degradability: 87% OECD 301 B
- GIS Code: BTM 10

PU

PU

Art. no. 6135030	20 Liters	1	Art. no. 6135000	1000L IBC	1
Art. no. 6135010	205 Liters	1			

Emkotrenn MP 5485



Naphthene-based concrete release agent

Emkotrenn MP 5485 is a non-water miscible concrete release agent containing special naphthene-based base oils and active ingredients, which creates a protective layer on concrete production machinery, transport machinery and processing machinery and everything which comes into contact with concrete or mortar. It forms a solid protective film in just a few minutes, thereby ensuring easy, quick cleaning and providing lasting protection against corrosion while being gentle on the material.

The product is to be applied undiluted by spraying using a flat-jet nozzle immediately after cleaning (onto the still wet substrate) and evenly.

Technical data:

- Appearance: clear, yellow
- Viscosity at 40 °C: 10.5 mm²/s DIN 51 562-1
- Solubility: not water-miscible
- Density at 15 °C: 880 Kg/m³ DIN 51 757
- Flash point:> 100°C DIN EN ISO 2719
- GIS Code: BTM 20

PU

PU

Art. no. 6129020	60 Liters	1	Art. no. 6129001	1000L IBC	1
Art. no. 6129010	205 Liters	1			



Emkotac Saw



All year round saw chain oil for all chainsaws

Can be used all year round in Central Europe. It is characterised by distinctly good adhesion and does not splash off the chain uncontrollably even at high temperature loads and/or revolution speeds. The chain oil is coloured brown and thereby provides the benefits that the lubricity is improved by the additional proportion of solid lubricant MoS₂, the filling level of plastic tanks can be inspected easily and quickly and the oil quantity metering level control process, in accordance with the saw chain manufacturer's specifications, is made considerably easier. Emkotac Saw fulfils the saw chain oil regulations of, among others: Dolmar, Clinton, Cobra, Comet, Homelite, Lombard, McCulloch, Mono, Oregon, Pioneer, Poulan, Remington, Root, Skil, Solo, Stihl.

Technical data:

- Density at 15 °C: 0.877 g/cm³
- Viscosity at 40 °C: 95.4 mm²/s
- Pour point: -25°C
- Viscosity index: approx. 112

PU			PU		
Art. no. 3450075	1 Liter	12	Art. no. 3450223	60 Liters	1
Art. no. 3450550	5 Liters	4	Art. no. 3450010	205 Liters	1
Art. no. 3450330	20 Liters	1	Art. no. 3450000	Tank	1

Emkotac Green Forest 220



Bio saw chain oil for wood harvesters

A biodegradable high-performance saw-chain adhesive oil based on vegetable oils, free from synthetic oil and mineral oil and specially designed for timber harvesting machines (harvesters). A special additive package protects the product from premature ageing and/or resinification, optimises the viscosity position and thereby improves the adhesion characteristics and gliding properties. It can be utilised all year round and possesses excellent characteristics for adhesion, wear and corrosion protection. Emkotac Green Forest 220 must never be mixed with synthetic oil or mineral oil, otherwise technical faults and malfunctions could occur. It is not water-soluble, so that in the event of leakage, the product remains largely in the upper layers of the earth and is therefore not carried downwards and enters into the groundwater. The proportion of renewable raw materials is approx. 95%, which means that the product bears the „Blue Angel“ environmental label. The biodegradability is >98% in 21 days.

PU			PU		
Art. no. 3453030	20 Liters	1	Art. no. 3453010	205 Liters	1
Art. no. 3453020	60 Liters	1	Art. no. 3453000	Tank	1

Emkotac Green Forest



Bio saw chain lubricant for portable chainsaws

Based on vegetable oils and free of synthetic and mineral oil. Special additives protect the product against premature ageing and/or resinification and therefore optimise the viscosity position and improve the adhesion characteristics and gliding properties. This thereby achieves lower wear on the chain and sprocket. The additive also guarantees utilisation under extreme and harsh winter conditions (cold test at 72h/-18 °C, pour point -30 °C). Suitability for use has been confirmed without restriction by the KWF. It is produced on the basis of the renewable raw material of rapeseed oil (cold pressed). This therefore conserves the limited raw material resources (e.g. mineral oil). Rapeseed as a product is considered to be environmentally friendly, as harmful carbon dioxide is extracted from the air during plant growth and vital oxygen is formed. Emkotac Green Forest must not be mixed with synthetic oil or mineral oil. Technical problems may occur due to the mixing! Emkotac Green Forest is not water-soluble, so that in the event of leakage, the product remains largely in the upper layers of the earth and is therefore not carried downwards and enters into the groundwater. It additionally fulfils the criteria for the EU Ecolabel and "Blue Angel" environmental awards. The biodegradability is >98% in 21 days corresponding to the CEC-L-33-A-93 test.

PU			PU		
Art. no. 3461070	1 Liter	12	Art. no. 3461020	60 Liters	1
Art. no. 3461050	5 Liters	4	Art. no. 3461010	205 Liters	1
Art. no. 3461030	20 Liters	1	Art. no. 3461000	Tank	1

Emkotac MEG range 220, 320, 460, 680



Highly adhesive blade oil

Thread-forming and pressure-resistant lubricating oil for the lubrication of vertical guides (e.g. on saw frames) and sliding surfaces. The lubricating oil, which has been formulated on a mineral oil basis and the most modern additive technology, possesses excellent wetting properties and, also due to its stable lubricating film, provides optimum adhesion and lubricating performance with long-lasting protection against wear and ageing.

Technical data:

- Density at 15 °C: 0.891-0.910 g/cm³
- Pour point: -12°C
- Viscosity at 40 °C: 220-680 mm²/s
- Viscosity index: approx. 100

MEG 220			MEG 460		
Art. no.	Volume	PU	Art. no.	Volume	PU
3413030	20 Liters	1	3415030	20 Liters	1
3413020	60 Liters	1	3415020	60 Liters	1
3413010	205 Liters	1	3415010	205 Liters	1

MEG 320			MEG 680		
Art. no.	Volume	PU	Art. no.	Volume	PU
3414030	20 Liters	1	3426030	20 Liters	1
3414020	60 Liters	1	3426020	60 Liters	1
3414010	205 Liters	1	3426010	205 Liters	1



Emkomix Super 1:50



Semi Synthetic High-Performance Two-Stroke engine oil

This semi-synthetic two-stroke engine oil, equipped with a modern additive package, has been developed for use in air and water-cooled two-stroke engines lubricated with mixture and fresh oil with very high loads and speeds. It is mixing-active and forms a homogeneous unit with unleaded fuels that does not separate even after a long period of non-use. Due to the excellent corrosion protection, it can also be used for outboard motors.

Your benefit:

- Self-mixing.
- Very high wear and corrosion protection.
- Low exhaust emissions due to very good and clean combustion.
- The strong cleaning effect keeps the engine and spark plugs clean from deposits.

Mixing ratio of 5L petrol:

1:20 = 250 ml 1:40 = 125 ml
1:25 = 200 ml 1:50 = 100 ml

Art. no.	Quantity	PU
0435050	5 Liters	4
0435030	20 Liters	1
0435020	60 Liters	1

Can be used with:

API TC/TC-W 3; JASO FD; Global GD;
ISO-L-EGD; 2-Stroke DFI; Husquarna 272

Syntomix 1:100



Synthetic High-Performance two-stroke engine oil

This high-quality synthetic two-stroke engine oil, equipped with a modern additive package, has been developed for use in air-cooled and water-cooled two-stroke engines lubricated with a mixture and fresh oil, with the highest loads and highest speeds. It is mixing-active and forms a homogeneous unit with unleaded fuels that does not separate even after a long period of non-use. Due to the excellent corrosion protection, it can also be used for outboard motors and two-stroke scooters with/without water cooling.

- Self-mixing.
- Best possible protection against wear and corrosion.
- Low exhaust emissions due to very good combustion.
- The strong cleaning effect keeps the engine and spark plugs clean from deposits.

Mixing ratio:

5 Liters 1:100 = 50 ml 4 Liters 1:100 = 40 ml
3 Liters 1:100 = 30 ml 2 Liters 1:100 = 20 ml
1 Liter 1:100 = 10 ml

Art. no.	Quantity	PU
0425050	5 Liters	4
0425030	20 Liters	1
0425020	60 Liters	1

Can be used with:

API TC / TC-W 3; JASO FD | Global GD;
ISO-L-EGD; 2-Stroke DFI; Husquarna 272;
Piaggio Hexagon

Special fuel 2T (Alkylate petrol)



KWF certified 2-stroke special fuel

Ready for operational use, tested 2-stroke fuel mixture for many small engine-driven devices such as chain saws, hedge trimmers, leaf blowers, lawn mowers, which can be operated with a two-stroke mixture (in a ratio of 1:50). The special fuel, with the assigned KWF test mark, can usually be utilised without any problems when the manufacturer's specifications regarding servicing, maintenance and operation of the equipment are always observed. It can be necessary under certain circumstances to adjust the carburettor setting of the engine to the low-emission and therefore for environmentally friendly fuel. Increased soot formation can occur initially when switching over from conventional fuel to special fuel 2-T because deposits in the engine will be burnt off. Problems with compatibility with other materials such as paints or seals are not to be expected.

Art. no.	Quantity	PU	Art. no.	Quantity	PU
0465050	5 Liters	3	0460017	200 Liters	1
0463035	20 Liters	1	0460000	920 Liters	1
0460035	60 Liters	1			

Special fuel 4T (Alkylate petrol)



For ALL 4-stroke engines, such as lawn mowers, milling cutters or go-carts
Ready for operational use, tested 4-stroke fuel mixture for many small engine-driven devices such as chain saws, hedge trimmers, leaf blowers, lawn mowers, which can be operated with a two-stroke mixture.

Advantages:

- Synthetic, low-emission petrol
- Low-benzene
- Extremely low odour level
- Ideal for use in go-kart centres, for example, and proven many times over
- Low-emission and environmentally friendly
- Clean combustion, low soot formation

Art. no.	Volume	PU
Art. no. 0461010	25 Liters	1
Art. no. 0460517	200 Liters	1

Emkolube SC range 32, 46, 68



Special mineral oil-based compressor oils

Designed for use in multi-cell and screw compressors with oil-injection cooling. They will be preferably utilised in screw compressors and are particularly wear-reducing and load-absorbing. High-pressure (EP) additives effectively protect the bearings and power-transmitting components of the compressor against wear. Especially for screw compressors corresponding to VDL; DIN 51 506. The main task of the oil in the screw compressor is cooling and sealing in the compression chamber. The oils which are available in the Emkolube SC range possess an excellent oxidation stability due to the use of high-quality base oils in combination with special antioxidants, which thereby guarantees a very long service life for the oil even when subjected to high loads, even up to 110 °C compression temperature.

Emkolube SC 32	PU
Art. no. 3231030 20 Liters	1
Art. no. 3231020 60 Liters	1
Art. no. 3231010 205 Liters	1

Emkolube SC 46	PU
Art. no. 3230050 5 Liters	4
Art. no. 3230030 20 Liters	1
Art. no. 3230020 60 Liters	1
Art. no. 3230010 205 Liters	1

Emkolube SC 68	PU
Art. no. 3232030 20 Liters	1
Art. no. 3232020 60 Liters	1
Art. no. 3232010 205 Liters	1

Syntolube SC range 32, 46, 68, 100



Fully synthetic (PAO) compressor oil for piston-driven compressors, screw compressors and multiple-cell compressors

The oils available in the Syntolube SC range are special compressor oils based on synthetic (PAO) base oils and state-of-the-art additives, which have been developed for use in piston compressors, screw compressors and multiple-cell compressors. They are characterised by their excellent lubrication performance and high thermal stability, which therefore make their utilisation in a very wide temperature range possible, also due to their inherent, very good viscosity-temperature behaviour. The outstanding corrosion protection and the long-lasting protection provided against ageing are additional outstanding properties which thereby guarantee a long, trouble-free service life.

Can be used with:
DIN 51506 VDL;
ISO 6743-3 DAA/DAB/DAG/
DAH/DAJ/DVA/L-HV

Syntolube SC 46	PU
Art. no. 3220230 20 Liters	1
Art. no. 3220220 60 Liters	1
Art. no. 3220210 205 Liters	1
Art. no. 3220200 Tank	1

Syntolube SC 32	PU
Art. no. 3220130 20 Liters	1
Art. no. 3220120 60 Liters	1
Art. no. 3220110 205 Liters	1
Art. no. 3220100 Tank	1

Syntolube SC 68	PU
Art. no. 3220330 20 Liters	1
Art. no. 3220320 60 Liters	1
Art. no. 3220310 205 Liters	1
Art. no. 3220300 Tank	1

Syntolube SC 100	PU
Art. no. 3220430 20 Liters	1
Art. no. 3220420 60 Liters	1
Art. no. 3220410 205 Liters	1
Art. no. 3220400 Tank	1

Emkolube VDL range 100, 150



Mineral oil-based compressor oils

Mineral, zinc-free and ash-free compressor oil for the lubrication of piston compressors and vane or impeller compressors (vacuum pumps). Its modern additive package means that it can effectively ensure optimum lubrication performance and reliable wear protection over the entire temperature range. In addition, it minimises the tendency for coke build up and the formation of flammable residues. The product can also be utilised for recirculating lubrication of diesel engines and power units when the manufacturer does not prescribe HP engine oil.

Can be used with:

DIN 51506 VBL/VCL/VDL ISO/DP 6521 DAA/DAB/DAH/DAG

Emkolube VDL 100			Emkolube VDL 150		
Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 3244050	5 Liters	4	Art. no. 3245050	5 Liters	4
Art. no. 3244030	20 Liters	1	Art. no. 3245030	20 Liters	1
Art. no. 3244020	60 Liters	1	Art. no. 3245020	60 Liters	1
Art. no. 3244010	205 Liters	1	Art. no. 3245010	205 Liters	1

Emkoroc PG



Fully synthetic compressed air oil

Soluble in water and biodegradable, for the lubrication of compressed air tools such as hammers, vibration plates, chisels, drills, earth rockets etc. It enables trouble-free work even at temperatures below -25 °C.

The product is >90% biodegradable.

This product is not miscible with mineral products!

Technical data:

- Density at 15 °C: 1.095 kg/l
- Flow point: -51 °C
- Viscosity at 40 °C: 10.00 mm²/s
- pH value 10%: 8.5 (in water)

			PU
Art. no. 3281050	5 Liters	4	
Art. no. 3281030	20 Liters	1	
Art. no. 3281010	205 Liters	1	

Emkoroc MB 68, 100



Drilling oil and air hammer oil for pneumatic tools

Emkoroc MB 68 and MB 100 is a lubricating oil which is based on mineral base oils, and is utilised for the lubrication of heavy-duty hammer drills, pneumatic tools and jackhammers which will be used in outside areas or closed areas such as mine shafts or tunnels.

Technical data: MB 68

- Density at 15 °C: 875 kg/m³
- Kinetic Viscosity at 40 °C: 68 mm²/s.
- Kinetic Viscosity at 100°C: 8.7 mm²/s.
- Viscosity Index: 102
- Flash point COC: 228 °C
- Pour point: -27 °C

MB 100

- Density at 15 °C: 882 kg/m³
- Kinetic Viscosity at 40 °C: 100 mm²/s
- Kinetic Viscosity at 100°C: 11.0 mm²/s
- Viscosity Index: 102
- Flash point COC: 226 °C
- Pour point: -27 °C

Can be used with: ISO 6743-11 PAB

Emkoroc MB 68			Emkoroc MB 100		
Art. no.	Volume	PU	Art. no.	Volume	PU
Art. no. 3274030	20 Liters	1	Art. no. 3275050	5 Liters	4
Art. no. 3274020	60 Liters	1	Art. no. 3275030	20 Liters	4
Art. no. 3274010	205 Liters	1	Art. no. 3275010	205 Liters	1

Emkoclean S186



Cold degreaser / cold cleaner free of halogenated hydrocarbons and aromatics

Solvent-based. It possesses excellent dissolving power against natural and synthetic oils as well as greases and can be utilised for all degreasing activities and cleaning work in processes for wash-down, immersion, spraying and flooding. Its application is particularly recommended where, for safety reasons, physiologically harmful solvents or those with a low flash point should not be utilised. Emkoclean S 186 can dissolve tar, waxes, natural resins and synthetic resins and is particularly recommended for cleaning painted or primed parts. ATTENTION: Cold cleaners may only be utilised in conjunction with installed light liquid separators (oil separators).

Technical data:

- Density at 15 °C: 0.760 g/cm³
- Refractive index: 1.424
- Flash point: 62 °C
- Dielectric strength: 160 Kv/cm
- Evaporation number:
90 – 100 (ether = 1)

		PU
Art. no. 8304033	20 Liters	1
Art. no. 8304022	60 Liters	1
Art. no. 8304012	200 Liters	1

Emkoclean HP 2000



Biodegradable and versatile cleaning concentrate

The product is excellently suited for cleaning machinery, vehicles, floors, motors and engines in industry, households, agriculture and repair workshops.

Applicable in processes with dipping, wiping and washing off with a preparation concentration of 5-50% (depending on the type and degree of soiling). Also ideal in high-pressure and steam-blasting devices or equipment, as heating up to 80 °C increases the cleaning effect (approx. 0.5 - 3% to be metered on the lance).

Technical data:

- Appearance/colour: clear, light yellow
- pH value (concentration): 10.8
- Density at 20 °C 1.09 kg/m³
- Density at pH value (1% solution): 7.6

Concentration is determined by titration:

- Sample: 50 ml
- Indicator: bromophenol blue
- Standard solution:
0.1 N hydrochloric acid
- Factor: 0.167

		PU
Art. no. 8307060	5 Liters	4
Art. no. 8307032	20 Liters	1
Art. no. 8307022	60 Liters	1
Art. no. 8307010	205 Liters	1

EMKA Rust Remover with MoS₂



Multi-purpose rust remover with graphite additive

EMKA Rust Remover with MoS₂ quickly loosens seized, rusted connections and, thanks to the combination with graphite, provides additional lubrication and water displacement. Its excellent capillary action allows it to penetrate deep into tight and hard-to-reach areas. Moving parts continue to operate smoothly and receive long-lasting protection against corrosion. The graphite additives also prevent seizing when loosening or tightening.

Shake the can well before use. Spray the parts to be treated directly from a distance of approx. 25–30 cm. Then allow the product to work briefly. Repeat if necessary.

Can be used with:

Suitable for all rusted connections.

		PU
Art. no. 8009094	400 ml	12

EMKA Brake Disc Cleaner



Degreaser and pre-cleaner

EMKA Brake Disc Cleaner is the ideal aid for effortless cleaning and degreasing. Due to its high evaporation rate, an optimal cleaning effect is achieved in a short time. The brake cleaner works immediately and dries quickly without leaving any residue, ensuring quick repairs and assembly. It is primarily used for removing and cleaning metal surfaces and glass. Paints and plastics can be damaged, so test on an inconspicuous area first. Shake the can well before use, then spray the brake cleaner onto the contaminated area and allow it to run off. Repeat the process for heavy soiling.

Can be used with:

Can be used on all metallic surfaces and glass.

		PU		PU
Art. no. 8008095	500 ml	12	Art. no. 8302022	60 Liters
Art. no. 8302052	5 Liters	4	Art. no. 8302010	200 Liters
Art. no. 8302042	20 Liters	1		

EMKA-CLEAN Wash Basin



The Clean, Flexible Solution for Sustainable Parts Cleaning

Instead of using harmful cold cleaners or aggressive solvents, EMKA-CLEAN relies on an environmentally friendly, low-odor cleaning process with microorganisms.

The heated cleaning fluid (42 °C) gently removes oils, grease, and dirt from components, protects materials and surfaces, and ensures a clean and safe working environment.

Thanks to its flexibility, the washing table can be used almost anywhere - from workshops and industrial facilities to automotive and engine repair, as well as metalworking, construction, forestry, and agriculture. With practical accessories, EMKA-CLEAN can be perfectly adapted to your individual needs. The table is approved for use by NATO and in the aerospace industry.



Standard Basin

1 piece
Art. no. 8600010

Dimensions: 71 × 86 × 108 cm

Load capacity: 150 kg



XXL Basin

1 piece
Art. No. 8600020

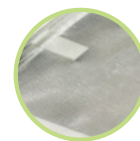
Dimensions: 97 × 126 × 109 cm

Load capacity: 200 kg



20L Cleaning fluid

- ready to use -
Art. no. 8600030



Filter Mats

1 piece (PU = 6)
Art. no. 8600040



Cleaning Brush

1 piece
Art. no. 8600050

EMKA Ready to Absorb



Oil and Chemical Absorbent

The product is equipped with a practical pouring spout and is fully biodegradable. It leaves no contamination in soil, surface water, or groundwater and takes effect immediately. Within just a few seconds, it completely absorbs spilled substances, binding them permanently and efficiently - even trapping toxic odors. The material can absorb up to eight times its own weight, is non-flammable and non-explosive, and has been approved by DEKRA, MPA, and the Hygiene Institute. In addition, it is dust-free, even cleans water - with a TOC content of only 1% after application - and does not sink. It also offers excellent economic advantages: besides lower purchase costs, disposal costs are significantly reduced.

Can be used with:

Chemicals, fluids, oils, and much more.

Available as a 1 kg bulk box.
Resealable.

Art. no.	1000g	PU
8563055	1000g	1



AdBlue®



High-Purity urea solution according to ISO 22241

EMKA AdBlue® is a high-purity urea solution and acts as a NOx reducing agent for diesel engines with SCR catalysts to meet the EURO 4, 5, and 6 emissions standards according to AUS 32 (CEFIC) and ISO 22241. Caution! Do not fill into the vehicle's fuel tank or any other fluid container, but only into the designated and separate AdBlue tank! Recommended storage temperature: between 0°C and +30°C (freezing point -11°C, can be reused after thawing!). The product has a shelf life of 1 year when stored properly.

Recommendation:

Ideally, add **EMKA SRC Anti Kristall & Protect** every time you refill AdBlue®. For further information, please refer to the product specifications.

Art. no.	Quantity	PU	Art. no.	Quantity	PU
6707050	5 Liters	4	6707025	210 Liters	1
6707440	10 Liters	1	6707001	1000 L IBC	1
6707030	20 Liters	1	6707011	Tank	1

AdBlue® MAX



High-Purity urea solution according to ISO 22241 with Anti-crystal Additive

EMKA AdBlue® is a high-purity urea solution and acts as a NOx reducing agent for diesel engines with SCR catalysts to meet the EURO 4, 5, and 6 emissions standards according to AUS 32 (CEFIC) and ISO 22241. The product contains an additive to prevent crystal formation in the SCR system. It also ensures fine atomization of the urea solution and minimizes the risk of AdBlue® crystallization!

Caution! Do not fill into the vehicle's fuel tank or any other fluid container, but only into the designated and separate AdBlue tank! Recommended storage temperature: between 0°C and +30°C (freezing point -11°C, can be reused after thawing!). The product has a shelf life of 1 year when stored properly.

Art. no.	1000L IBC	PU
6707002	1000L IBC	1

EMKA SRC Anti Kristall & Protect



Anticrystal Additiv for AdBlue Systems

Anti Kristall & Protect is an efficient additive to prevent crystal formation in the SCR system of diesel engines. It cleans thoroughly and protects the AdBlue® system from deposits and contamination. It also ensures fine atomization of the urea solution and optimizes the backflow of AdBlue® in the system, which minimizes the risk of AdBlue® crystallization. Make sure that SRC Anti Kristall & Protect is completely mixed in to achieve the best possible effect. The additive should be used every time you fill up to ensure the best possible protection of the SCR system. **Do not pour into the fuel tank!**

Mixing ratio:

Fill the recommended amount into the AdBlue® tank directly before filling:

25 ml Additiv for 10 Liters AdBlue®			PU
50 ml Additiv for 20 Liters AdBlue®			
250 ml Additiv for 100 Liters AdBlue®	Art. no. 7001055	250 ml	24
	Art. no. 7001035	2,5 Liters	1
	Art. no. 7001010	200 Liters	1

EMKA Engine Flush



Oil system cleaner

EMKA Engine Flush is a cleaning additive suitable for use in all gasoline and diesel engines with and without turbochargers. It dissolves deposits and residues on piston rings, hydraulic tappets, valve train, and engine casing walls, i.e., all aggressive residues created during the combustion process are removed from the entire engine oil circuit. Highly effective additives reliably protect the engine during the cleaning process. The dissolved dirt and deposits are removed from the engine with the used oil during an oil change!

Application:

- 1) Add to the oil circuit before every oil change.
- 2) Let the engine idle for approximately 15-20 minutes.
- 3) Change the oil and filter according to the manufacturer's specifications.

One can is sufficient for up to 5 Liters of oil.

For larger quantities, add 60 ml per Liters.

The product can be disposed of with the drained used oil.

Your Benefit:

- Improved compression, better performance.
- Deposits and residues are permanently removed.
- Fuel and oil consumption, as well as wear, are reduced.
- Reduced exhaust emissions, increasing the service life of exhaust gas purification systems.

Can be used with:

- Miscible with all mineral and synthetic engine oils.

EMKA Automatic Transmission Flush



Special Cleaner

EMKA Automatic-Transmission-Cleaner reliably dissolves and removes operational deposits such as oxidized oil residues, resins and other dirt from the entire transmission oil circuit, whereby power losses and switching problems can be eliminated/prevented. The cleaner will be added to the oil circuit, before changing the transmission oil at a ratio of 1:10 to the Gear oil volume. Then it remains 10-15 minutes under frequent load and changing gears while stationary or while driving in the transmission. Then the transmission oil change can be performed, but ideally flushed with the EMKA ATF AUTOMAT Evolution Premium, in order to achieve optimum cleanliness in the transmission. A cleansing/rinsing should follow be repeated after every 50.000 km in order to maintain the function and driving comfort.

Can be used with:

Can be used for all automatic transmissions	Art. no. 8009050	375ml	PU
			28

EMKA Diesel Injector Cleaner



NEW

PU

Art. no. 8930001 300 ml 12

Diesel system cleaner

EMKA Diesel Injector Cleaner reliably removes operational deposits throughout the fuel system and ensures optimal compression pressure, resulting in improved engine performance, lower fuel consumption, and lower exhaust emissions. It is especially suitable for cleaning high-pressure diesel systems such as common rail and pump-injector systems (even during long-life service intervals) and ensures sustained, optimal fuel atomization. Moisture is absorbed and removed, and all fuel-carrying components are effectively protected.

Application:

- 1) Pour into the fuel tank before each refueling.
- 2) The product works while driving.

One can is sufficient for 60-80 Liters of diesel fuel. For larger tank sizes, add 50 ml per 10 Liters.

Your Benefit:

- Easy to use.
- Works while driving.
- Suitable for all diesel engines.
- Positively affects relating to engine performance and fuel consumption.

Can be used with:

- For use in all diesel engines and miscible with all diesel fuels.

EMKA Diesel System Cleaner



NEW

PU

Art. no. 8940003 300 ml 12

Diesel system cleaner and system protection

EMKA Diesel System Cleaner, with its special active ingredients, dissolves residues and deposits throughout the system. It ensures the lubricating effect of the injection pump with low-sulfur diesel and can also be used in new common rail and unit injector engines. It also protects against corrosion and prevents deposits throughout the injection system, thereby reducing wear and ensuring better engine performance and lower fuel consumption.

Application:

- 1) Pour into the fuel tank before refueling.
- 2) The product works while driving.

One can is sufficient for approximately 60 Liters of diesel fuel. For larger tanks, add 50 ml per 10 Liters.

Your Benefit:

- Works while driving.
- Can be used in all diesel engines.
- Prevents deposits throughout the injection system.
- Cleans the entire system, from the fuel tank to the combustion chambers.

Can be used with:

- Suitable for all diesel engines and miscible with all diesel fuels.

EMKA DPF Purifier



NEW

PU

Art. no. 8930002 300 ml 12

Soot reduction and cleaning additive

EMKA DPF Purifier is a high-performance additive for reducing soot emissions, which also lowers exhaust emissions and improves engine performance through the purified fuel system. It is used in all diesel engines without an automatic additive dosing system and is miscible with all diesel fuels. Regular use keeps the diesel particulate filter clean and prevents damage or even the need to replace the filter.

Application:

Approximately every 2,000 km, pour one can into the tank immediately before filling up. The contents are sufficient for 40-60 Liters of diesel fuel; the product works while driving.

Your Benefit:

- Works while driving.
- Cleans the entire fuel system.
- Optimizes engine performance and thus fuel consumption.

Can be used with:

- Compatible with all petrol and diesel engines.

emka[®]



Your specialized trade partner

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