SPEMCO®



AUTOMOTIVE OILS AND FLUIDS

OPEMCO®

The PEMCO brand has been on the engine oil market for many years and has earned the respect and dedication of millions of car enthusiasts and professionals all over the world during this time. The history of the brand began in 1962, but it was not until 2004 that UAB SCT Lubricants, the current brand owner, was formed and initialised a large-scale modernisation process, thereby remarkably increasing the factory's producing capability.

Today all PEMCO products are manufactured under thorough control in the biggest lubricant factory with a high level of process automation in Northern Europe.

The PEMCO product range includes more than 100 different names of automotive oils and fluids. Not only do we produce lubricants, we also fill them into self-made metal and plastic containers.

The high quality of PEMCO lubricants and fluids and their compliance with all the requirements are confirmed by a number of specifications and quality certificates from leading organizations. In addition to high quality, the PEMCO brand is proud of its traditionally low prices for products. A good price-quality ratio is achieved through the automation of production processes, as well as a perfect location on the shores of the Baltic Sea, which helps significantly reduce coordination and transport costs.









SCT ESTER

THE NEW TECHNOLOGY

A team of SCT scientists and engineers set an ambitious task: to use esters that are currently widely used in the aerospace industry in the mass production of lubricants for automotive engines. Today, we are proud to present to you our new technology-SCTESTER.



The secret behind how esters reduce friction and wear is that, unlike hydrocarbons, they also contain oxygen. The oxygen makes the ester molecules polar, so they are literally magnetised to metal surfaces, forming a dense and stable oil film. This film also protects the surface from moisture and air, that is, prevents corrosion.

The high stability of the ester molecules enables an oil based on them to withstand temperatures more than 200 °C without boiling or viscosity changes, and their pour point ensures that the oil is pumpable even at temperatures as low as -45 °C for ideal cold starts.

AND WE MADE IT REAL!

CONTENT

ABOUT THE MANUFACTURER AND ESTER TECHNOLOGY	1-2
ENGINE OILS FOR PASSENGER CARS	
PEMCO 328 SAE 0W-20	
UNIVERSAL ENGINE OILS FOR PASSENGER CARS AND TRUCKS	9
PEMCO 114 SAE 15W-40	
ENGINE OILS FOR MOTORBIKES	10
PEMCO 640 SAE 10W-40 PEMCO 620 API TC	
ENGINE OILS FOR TRUCKS AND BUSES	11
DIESEL M-50 SAE 20W-50 DIESEL G-6 Eco SAE 10W-40 DIESEL G-10 SAE 5W-40 DIESEL G-15 SAE 20W-50 DIESEL G-20 SAE 10W-30 DIESEL G-4 SAE 15W-40 DIESEL G-7 Blue SAE 10W-40 DIESEL G-12 SAE 10W-30 DIESEL G-17 Blue SAE 5W-30 DIESEL G-17 Blue SAE 5W-30 DIESEL G-7 SAE 10W-40 DIESEL G-18 SAE 15W-40 DIESEL G-18 SAE 15W-40 DIESEL G-18 SAE 15W-40	
TRANSMISSION FLUIDS	16
PEMCO 465 ATF D VI PEMCO 453 DCT-Fluid PEMCO 430 ATF D III PEMCO 460 CVT-Fluid PEMCO 452 ATF TL 52 PEMCO 420 ATF D II PEMCO 455 ATF TL 55 PEMCO 450 JWS 3309 PEMCO 410 ATF-A	
GEAR OILS	20
PEMCO 580 SAE 75W-80	
ANTIFREEZES AND COOLANTS	24
ANTIFREEZE 911 (-40 °C) ANTIFREEZE 913+ (-40 °C) ANTIFREEZE 913+ ANTIFREEZE 912+ (-40 °C) ANTIFREEZE 913+ ANTIFREEZE 913- ANTIFREEZE 913+ TRUCK ANTIFREEZE 913 TRUCK ANTIFREEZE 913	
OILS FOR AGRICULTURAL MACHINERY	28
MULTIFARM STOU SAE 10W-30 MULTI UTTO WB 101 MULTIFARM STOU SAE 10W-40 KETTENOEL	
INDUSTRIAL OILS AND FLUIDS	30
M.O. SAE 10W/30/40/50	
MARINE OILS	35
MARINE 09-SERIES MARINE 3040 EMULSION MARINE 12-SERIES MARINE X70	
THE CONCISE GUIDE TO LUBRICATION	<i>37</i>

SPEMCO°



ENGINE OILSFOR PASSENGER CARS

Premium quality range of oils with the most sought-after characteristics for passenger cars. The oils comply with the latest API and ACEA standards and the latest requirements of the major vehicle manufacturers.

The range consists of oils with viscosities from SAE 0W-20 to SAE 60 on various bases: synthetic, semi-synthetic and mineral. It therefore contains oils suitable for the latest vehicles, as well as for older generations.

PEMCO 328 SAE OW-20

Product code: PM0328



FULLY SYNTHETIC ENGINE OIL

Innovative energy-saving, low-viscosity bisynthetic (PAO + esters) premium engine oil for the latest models of turbocharged petrol engines with diesel particulate filters.

Volume: / Art. Nr.:

1L	PM0328-1	4L	PM0328-4
5L	PM0328-5	20L	PM0328-20
60L	PM0328-60	208L	PM0328-DR
1000L	PM0328-IBC		

Specifications:

SAE 0W-20
API SP (RC)
ACEA C5
MB 229.71
BMW LL-17FE+
VOLVO VCC RBS0-2AE (Service Fill)
GM dexos1 Gen2
HONDA HTO-06
GM 6094M
CHRYSLER MS-6395
CHRYSLER MS-13340
JAGUAR STJLR.51.5122
LAND ROVER STJLR.51.5122
FORD WSS-M2C947-A/-B1
OPEL OV0401547

PEMCO 332 SAE OW-30

Product code: PM0332



FULLY SYNTHETIC ENGINE OIL

Innovative universal bi-synthetic (PAO+esters) premium engine oil for modern diesel and petrol engines of European vehicles with and without turbocharging.

Volume: / Art. Nr.:

1L	PM0332-1	4L	PM0332-4
5L	PM0332-5	20L	PM0332-20
60L	PM0332-60	208L	PM0332-DR

Specifications:

SAE 0W-30 API SN ACEA C2/C3 VOLKSWAGEN 504 00/507 00/505 01 BMW LL-12FE PORSCHE C30 MB 229.51 PSAB71 2290 PSAB71 2312 RENAULT RN17/RN0710/RN0700 FIAT 9.55535-DS1/-GS1 FORD WSS-M2C950-A JAGUAR/LAND ROVER STJLR.03.5007 IVECO 18-1811 CLASSE SC1 LV

PEMCO 360 SAE 5W-30

Product code: PM0360



SYNTHETIC ENGINE OIL

Innovative universal ester-containing fully synthetic premium engine oil for modern diesel and petrol engines with and without turbo-charger equipped with particulate filters (DFP/FAP). The product is specifically designed for professional RENAULT car maintenance.

Volume: / Art. Nr.:

1L	PM0360-1	5L	PM0360-5
20L	PM0360-20	60L	PM0360-60
208L	PM0360-DR	1000L	PM0360-IBC

Specifications:

SAE 5W-30 API SN ACEA C4 RENAULT RN0720 MB 226.51

NISSAN diesel engines with DPF

PEMCO 350 SAE 5W-30

Product code: PM0350



FULLY SYNTHETIC ENGINE OIL

Innovative universal multigrade bi-synthetic (PAO + esters) premium motor oil for modern petrol and diesel engines with and without turbocharging, including those equipped with pump nozzles (Pumpe-Duse). Designed based on VW and DAIMLER requirements.

Volume: / Art. Nr.:

1L	PM0350-1	4L	PM0350-4
5L	PM0350-5	20L	PM0350-20
60L	PM0350-60	208L	PM0350-DR
1000L	PM0350-IBC		

Specifications:

SAE 5W-30 APISN ACEA C3 MB 229.51 VOLKSWAGEN 504 00 VOLKSWAGEN 507 00 VOLKSWAGEN TL 52 195 BMW LL-04 PORSCHE C30

PEMCO 345 SAE 5W-30

Product code: PM0345



SYNTHETIC ENGINE OIL

Innovative universal ester-containing synthetic premium motor oil for modern diesel and petrol engines with and without turbocharging. Especially recommended for direct injection turbodiesel engines. Designed to meet VW requirements.

Volume: / Art. Nr.:

1L	PM0345-1	5L	PM0345-5
20L	PM0345-20	60L	PM0345-60
208L	PM0345-DR		

Specifications:

SAE 5W-30 API SN/CH-4 ACEA C2 ACEA C3 VOLKSWAGEN 505 01 BMW LL-04 MB 229.52 MB 229.51 MB 229.31 MB 226.5 G dexos2 RENAULT RN0700

RENAULT RN0710

PEMCO 340 SAE 5W-40

Product code: PM0340



FULLY SYNTHETIC ENGINE OIL

Innovative universal ester-containing premium motor oil for modern petrol and diesel engines with and without turbocharging, including "old" brands and high mileage. Designed based on the requirements of European producers.

Volume: / Art. Nr.:

1L	PM0340-1	4L	PM0340-4
5L	PM0340-5	10L	PM0340-10
20L	PM0340-20	60L	PM0340-60
208L	PM0340-DR	1000L	PM0340-IBC

Specifications:

GM LL-B-025

SAE 5W-40 API SN/CH-4 ACEA A3/B4 MB 229.5/229.3 MB 226.5 JASO MA2 VOLKSWAGEN 502 00/505 00 BMW LL-01/LL-98 PORSCHE A40 PSA B71 2296 RENAULT RN0710/RN0700 FIAT 9.55535-H2/-Z2 CHRYSLER MS-10850/-10896/-12991 GM LL-0-025

PEMCO 330 SAE 5W-30

Product code: PM0330



SYNTHETIC ENGINE OIL

Innovative universal premium ester-containing engine oil for modern petrol and diesel engines with and without turbocharging. Designed based on the requirements of European car manufacturers.

Volume: / Art. Nr.:

1L	PM0330-1	4L	PM0330-4
5L	PM0330-5	20L	PM0330-20
60L	PM0330-60	208L	PM0330-DR
1000L	PM0330-IBC		

Specifications:

SAE 5W-30 API SN/CH-4 ACEAA3/B4 VOLKSWAGEN 502 00 VOLKSWAGEN 503 01 VOLKSWAGEN 503 01 VOLKSWAGEN 501 01 MB 229.3 MB 229.5 BMW Longlife-98 RENAULT RN0700 RENAULT RN0710 FORD WSS-M2C913-B

PEMCO 325 SAE 5W-20

Product code: PM0325



SYNTHETIC ENGINE OIL

Innovative energy-saving premium bi-synthetic engine oil (PAO + esters) for modern petrol engines. Designed to meet the requirements of American, Japanese and Korean automakers.

Volume: / Art. Nr.:

1L	PM0325-1	4L	PM0325-4
20L	PM0325-20	208L	PM0325-DR

Specifications:

SAE 5W-20 APISP (RC) ILSAC GF-6A GM dexos1 Gen2 HONDAHTO-06 GM 6094M CHRYSLER MS-6395 CHRYSLER MS-13340 JAGUAR STJLR.51.5122 LAND ROVER STJLR.51.5122 FIAT 9.55535-CR1 FORD WSS-M2C930-A/-B FORD WSS-M2C925-A/-B FORD WSS-M2C945-B1 FORD WSS-M2C948-B MAZDA SUZUKI

PEMCO 260 SAE 10W-40

Product code: PM0260



SEMI-SYNTHETIC ENGINE OIL

Universal ester-containing HC-synthese engine oil for modern petrol and diesel engines with and without a turbocharger, both multi-valve and direct injection, including "old" brands and high mileage vehicles. Designed according to the requirements of European manufacturers.

Volume: / Art. Nr.:

1L	PM0260-1	4L	PM0260-4
5L	PM0260-5	7L	PM0260-7
20L	PM0260-20	60L	PM0260-60
208L	PM0260-DR	1000L	PM0260-IBC

Specifications:

SAE 10W-40 API SN/CH-4 ACEA A3/B4 JASO MA2

VOLKSWAGEN 505 00 VOLKSWAGEN 502 00 VOLKSWAGEN 501 01 VOLKSWAGEN 500 00 MB 229.3 MB 229.1 PSAB71 2296 RENAULT RN0710

RENAULT RN0700

PEMCO 230 SAE 10W-30

Product code: PM0230



SEMI-SYNTHETIC ENGINE OIL

Hydro-synthetic universal motor oil for all types of petrol engines. Designed to meet VW and DAIMLER requirements.

Volume: / Art. Nr.:

1L	PM0230-1	4L	PM0230-4
5L	PM0230-5	20L	PM0230-20
60L	PM0230-60	208L	PM0230-DR
1000L	PM0230-IBC		

Specifications:

SAE 10W-30 API SN ACEA A3/B4 VOLKSWAGEN 505 00 VOLKSWAGEN 501 01 MB 229.1 ISUZU KIA

PEMCO 140 SAE 15W-40

Product code: PM0140



UNIVERSAL ENGINE OIL

Highly refined economy-class mineral engine oil for highly accelerated petrol and diesel engines with or without a turbocharger, with a very high mileage used in varying operating conditions.

Volume: / Art. Nr.:

1L	PM0140-1	4L	PM0140-4
5L	PM0140-5	20L	PM0140-20
60L	PM0140-60	208L	PM0140-DR

Specifications:

SAE 15W-40 API SN/CH-4 ACEA A3/B4 VOLKSWAGEN 505 00 VOLKSWAGEN 501 01 VOLKSWAGEN 500 00 MB 229.3 MB 229.1 PSAB71 2294 RENAULT RN0700 RENAULT RN0710

PEMCO 102 SAE 20W-50

Product code: PM0102



SYNTHETIC BLEND ENGINE OIL

Universal economy-class synthetic blend engine oil for modern highly accelerated petrol and diesel engines with and without a turbocharger used in difficult operating conditions and engines with a very high mileage used in various operating conditions.

Volume: / Art. Nr.:

1L	PM0102-1	4L	PM0102-4
5L	PM0102-5	20L	PM0102-20
60L	PM0102-60	208L	PM0102-DR

Specifications: SAE 20W-50 API SN/CH-4 ACEA A3/B4 VOLKSWAGEN 505 00 MB 229.1 MB 228.1 MAN 271

PEMCO 060 SAE 60

Product code: PM0060



UNIVERSAL ENGINE OIL

High-efficiency monograde mineral engine oil for heavy-load diesel-powered engines with and without a turbocharger operating under extraharsh conditions at ambient temperatures more than -15 °C.

Volume: / Art. Nr.:

5L	PM0060-5	20L	PM0060-20
60L	PM0060-60	208L	PM0060-DR

Specifications:

SAE 60 API CH-4

PEMCO 050 SAE 50

Product code: PM0050



UNIVERSAL ENGINE OIL

High-efficiency monograde mineral engine oil for heavy-load diesel-powered engines with and without a turbocharger operating under very harsh conditions at ambient temperatures more than -15 °C.

Volume: / Art. Nr.:

5L	PM0050-5	20L	PM0050-20
60L	PM0050-60	208L	PM0050-DR

Specifications:

SAE 50 API CH-4

PEMCO 040 SAE 40

Product code: PM0040



UNIVERSAL ENGINE OIL

High-efficiency monograde mineral engine oil for heavy-load diesel powered engines with and without a turbocharger operating under harsh conditions at ambient temperatures more -20 °C.

Volume: / Art. Nr.:

1L	PM0040-1	4L	PM0040-4
5L	PM0040-5	20L	PM0040-20
60L	PM0040-60	208L	PM0040-DR
1000L	PM0040-IBC		

Specifications:

SAE 40 API CH-4/SJ

PEMCO 114 SAE 15W-40

Product code: PM0114



UNIVERSAL DIESEL ENGINE OIL

Universal, all-season mineral engine oil for modern high-load and high-speed turbocharged and non-turbocharged diesel engines operating in all conditions. Designed specifically to protect both light and heavy-duty equipment and get the best performance out of it regardless of its operating conditions.

Volume: / Art. Nr.:

1L	PM0114-1	5L	PM0114-5
7L	PM0114-7	20L	PM0114-20
10L	PM0114-10	60L	PM0114-60
208L	PM0114-DR	1000L	PM0114-IBC

Specifications:

SAE 15W-40 API CH-4/SL ACEA E7, A3/B4 MAN M 3275 MB 228.3/229.1 MTU Type 2.0 VOLVO VDS-2

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ENGINE OILS FOR MOTORBIKES

These are the most popular oils for four-stroke and two-stroke engines in motorbikes, mopeds and scooters.

PEMCO 640 SAE 10W-40

Product code: PM0640





PEMCO 620 API TC

Product code: PM0620



SYNTHETIC 4-STROKE ENGINE OIL

An innovative synthetic ester-containing engine oil for 4-stroke high-load engines of motorcycles, pit bikes, motards, etc. for off-road (enduro, motocross, trials, etc.) and highway (stuntriding, supermoto, etc.) driving under extreme loads. It was designed for a guaranteed protection of the engine and the durability of the gearbox.

640

Volume: / Art. Nr.:

1L	PM0640-1	20L	PM0640-20
208L	PM0640-DR		

Specifications: **SAE 10W-40 APISN** JASO MA JASO MA2 HONDA HUSABERG KAWASAKI SUZUKI YAMAHA

UNIVERSAL 2-STROKE ENGINE OIL

A universal high-quality mineral-based engine oil for modern high-load and high-speed 2-stroke engines with air cooling. It is suitable for the lubrication by a pre-mixed blend and an automatic mixing in an engine intake.

Volume: / Art. Nr.:

PM0620-1 20L PM0620-20

Specifications:

APITC **JASOFB** ISO L-EGB





ENGINE OILSFOR TRUCKS AND BUSES

These oils are designed specifically for use in heavy-duty diesel engines of heavy trucks, construction, road and agricultural machines, as well as buses and other special equipment. The oils comply with the latest API and ACEA standards and many of them have official approvals from major vehicle manufacturers such as DAIMLER, MAN and VOLVO.

DIESEL M-50 SHPD SAE 20W-50

Product code: PM0702



UNIVERSAL TRUCK ENGINE OIL

Special multi-season, highly alloyed mineral engine oil with the addition of hydrosynthetics for modern, heavy duty and high-speed diesel engines with and without turbocharging, operating in extremely difficult conditions (including, at high ambient temperatures) and for engines with high mileage. Designed specifically to protect equipment and benefit most out of it under extreme loads.

Volume: / Art. Nr.:

5L	PM0702-5	7L	PM0702-7
10L	PM0702-10	20L	PM0702-20
60L	PM0702-60	208L	PM0702-DR
1000L	PM0702-IBC		

Specifications:

SAE 20W-50 API CH-4/SL ACEA E7, A3/B4 MAN M 3275-1 MB 228.3 MB 229.1 MTU Type 2 VOLVO VDS-2

DIESEL G-4 SHPD SAE 15W-40

Product code: PM0704





UNIVERSAL TRUCK ENGINE OIL

Innovative all-weather mineral-synthetic (esters + HC-synthes) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. The oil complies with the Global Specification GLOBAL DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998.

Volume: / Art. Nr.:

5L	PM0704-5	10L	PM0704-10
20L	PM0704-20	60L	PM0704-60
208L	PM0704-DR	1000L	PM0704-IBC

Specifications:

SAE 15W-40
API CI-4 Plus, CI-4/CH-4/SL
ACEA E7, A3/B4
JASO DH-1
GLOBAL DHD-1
CATERPILLAR ECF-1-a/ECF-2
CUMMINS CES 20076/-77/-78
DETROIT DIESEL 93K215
MACK EO-N/EO-M Plus
MAN M 3275-1
MB 228.1/228.3
RENAULT RLD-2
VOLVO VDS-3
MTU Type 2

DIESEL G-5 UHPD SAE 10W-40

Product code: PM0705





DIESEL G-6 UHPD Eco SAE 10W-40

Product code: PM0706



DIESEL G-7 UHPD Blue SAE 10W-40

Product code: PM0707



SEMI-SYNTHETIC TRUCK ENGINE OIL

All-weather semi-synthetic (esters+HC-synthes) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. The oil complies with the Global Specification GLOBAL DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998.

Volume: / Art. Nr.:

5L	PM0705-5	10L	PM0705-10
20L	PM0705-20	60L	PM0705-60
208L	PM0705-DR	1000L	PM0705-IBC

Specifications:

SAE 10W-40
API CI-4 Plus, CI-4/CH-4/SL
ACEA E7, A3/B4
JASO DH-1
GLOBAL DHD-1
CATERPILLAR ECF-2/ECF-1-a
CUMMINS CES 20076/-77/-78
DETROIT DIESEL 93K215
MACK EO-N/EO-M Plus
MAN M 3275-1
MB 228.3/228.1
MTU Type 2
RENAULT RLD-2
VOLVO VDS-3

SYNTHETIC TRUCK ENGINE OIL

All-weather modern synthetic motor oil for heavyduty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at MAN, MTU and MERCEDES-BENZ centres and has their written approvals. Synthetic base of the highest quality, featuring ideal viscosity in a wide temperature range.

Volume: / Art. Nr.:

10L	PM0706-5	20L	PM0706-20
60L	PM0706-60	208L	PM0706-DR
1000L	PM0706-IBC		

Specifications:

SAE 10W-40 API CI-4 ACEA E7, E4 CUMMINS CES 20077/-78 MB 235.28 MACK EO-N RENAULT RLD-2 SCANIALDF-3 VOLVO VDS-3 VOITH Class B MB Approval 228.5 MAN M 3277 Approval MTU Type 3 Approval

SYNTHETIC TRUCK ENGINE OIL

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines of the latest generation with and without turbocharger, operating in severe conditions on low sulphur fuel. The oil has successfully passed road and laboratory tests at VOLVO, MACK, MAN, MERCEDES-BENZ and RENAULT centres and has their written approvals.

Volume: / Art. Nr.:

10L	PM0707-10	20L	PM0707-20
208L	PM0707-DR	1000L	PM0707-IBC

Specifications:

SAE 10W-40
API CK-4/CJ-4
ACEA E8, E11
DAF (ACEA E6)
IVECO (ACEA E6)
CATERPILLAR ECF-3
CUMMINS CES 20086
DETROIT DIESEL DDC 93K222
MACK EOS-4.5 Approval
MAN M 3477 Approval
MAN M 3775
MB Approval 228.51
MB 228.31
MB VOLVO VDS-4.5 Approval

DIESEL G-8 UHPD SAE 5W-30

Product code: PM0708



SYNTHETIC TRUCK ENGINE OIL

Energy-saving synthetic (PAO-based) motor oil for heavy duty and high-speed diesel engines of the latest generation with and without turbocharging, operating in difficult conditions. The unique low-viscosity synthetic PAO-containing base of the highest quality, with ideal viscosity in the required temperature range, combined with an innovative additive package, provides unrivaled anti-friction, anti-wear and anti-scuffing properties.

Volume: / Art. Nr.:

10L	PM0708-10	20L	PM0708-20
208L	PM0708-DR	1000L	PM0708-IBC

Specifications:

SAE 5W-30 API CI-4 ACEA E4 ACEA E7 MB 228.5 VOLVO VDS-3 MAN M 3277/3377 MTU Type 3 MACK EO-N RENAULT RLD-2 CUMMINS CES 20076/-77/-78 DETROIT DIESEL 93K215

DIESEL G-10 UHPD SAE 5W-40

Product code: PM0710



SYNTHETIC TRUCK ENGINE OIL

The universal all-season synthetic engine oil for modern high-load and high-speed diesel engines with and without turbocharging, operating in harsh conditions and at low ambient temperatures. A state-of-the-art additive package combined with a synthetic base of the highest quality, which has an ideal viscosity over a wide temperature range, provides unsurpassed anti-riction, anti-wear and extreme pressure properties.

Volume: / Art. Nr.:

10L	PM0710-10	20L	PM0710-20
208L	PM0710-DR	1000L	PM0710-IBC

Specifications:

SAE 5W-40 API CI-4/SL ACEA E4 ACEA E7 MB 228.5 MACK EO-N MTU Type 3 MAN M 3277 RENAULT RLD-2 VOLVO VDS-3

DIESEL G-12 SHPD SAE 10W-30

Product code: PM0712



SEMI-SYNTHETIC TRUCK ENGINE OIL

All-weather semi-synthetic (HC synthesis) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions. Innovative additives in combination with a semi-synthetic base of the highest quality and low viscosity provide excellent anti-friction, anti-wear and extreme pressure characteristics.

Volume: / Art. Nr.:

20L	PM0712-20	208L	PM0712-DR
1000L	PM0712-IBC		

Specifications:

SAE 10W-30 API CI-4 Plus, CI-4/CH-4/SL ACEA E7, A3/B4 VOLVO VDS-3 MAN M 3275-1 MB 228.3/228.1 MTU Type 2 MACK EO-N/EO-M Plus RENAULT RLD-2 JASO DH-1 CUMMINS CES 20076/-77/-78 CATERPILLAR ECF-2/-1a GLOBAL DHD-1 DETROIT DIESEL 93K215

DIESEL G-14 UHPD SAE 15W-40

Product code: PM0714



SYNTHETIC TRUCK ENGINE OIL

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

Volume: / Art. Nr.:

20L	PM0714-20	208L	PM0714-DR
1000L	PM0714-IBC		

Specifications:

SAE 15W-40 APICK-4 ACEA E6 ACEA E7 ACEA E9 JASO DH-2 MB 228.31 CATERPILLAR ECF-3 CUMMINS CES 20086 MAN M 3775 DETROIT DIESEL DDC 93K222 MACK EOS-4.5 Approval VOLVO VDS-4.5 Approval

DIESEL G-15 SHPD SAE 20W-50

Product code: PM0715



MINERAL TRUCK ENGINE OIL

Special multi-season, highly alloyed mineral engine oil with the addition of hydrosynthetics for modern, heavy duty and high-speed diesel engines with and without turbocharging, operating in extremely difficult conditions (including, at high ambient temperatures) and for engines with high mileage. The oil complies with the Global Specification GLOBAL DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998.

Volume: / Art. Nr.:

20L PM0715-20 208L PM0715-DR

Specifications:

SAE 20W-50 API CI-4 Plus/CI-4/CH-4/SL ACEA E7, A3/B4 JASO DH-1 GLOBAL DHD-1 CATERPILLAR ECF-2/ECF-1-a CUMMINS CES 20076/-77/-78 DETROIT DIESEL 93K215 MACK EO-N/EO-M Plus MB 228.1/228.3 MTU Type 2 RENAULT RLD-2 VOLVO VDS-3 MAN M 3275-1

DIESEL G-17 UHPD Blue SAE 5W-30

Product code: PM0717



SYNTHETIC TRUCK ENGINE OIL

Energy-saving synthetic (PAO-based) motor oil for heavy duty and high-speed diesel engines of the latest generation with and without turbocharging, operating in severe conditions on low sulphur fuel. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions.

Volume: / Art. Nr.:

20L	PM0717-20	60L	PM0717-60
208L	PM0717-DR	1000L	PM0717-IBC

Specifications:

SAE 5W-30 APICK-4 ACEA E8, E11 MB 228.51 VOLVO VDS 4.5 CUMMINS CES 20086 MAN M 3677 IVECO (ACEA E6-2016) DAF (ACEA E6-2016) DETROIT DIESEL DDC93K222 SCANIALDF-4 RENAULT RLD-3 MACK EOS-4.5 CATERPILLAR ECF-3

DIESEL G-18 SHPD SAE 15W-40

Product code: PM0718



SYNTHETIC TRUCK ENGINE OIL

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines of the latest generation with and without turbocharger, operating in severe conditions on low sulphur fuel. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions.

Volume: / Art. Nr.:

20L PM0718-20 1000L PM0718-IBC 208L PM0718-DR

Specifications:

SAE 15W-40 APICK-4 ACEA E8, E11 MB 228.31/228.51 VOLVO VDS-4.5 CUMMINS CES 20086 MAN M 3775 IVECO (ACEA E6-2016) DAF (ACEA E6-2016) DETROIT DIESEL DDC93K222 RENAULT RLD-3 MACK EOS-4.5 CATERPILLAR ECF-3

DIESEL G-20 SHPD SAE 10W-30

Product code: PM0720



SYNTHETIC TRUCK ENGINE OIL

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

Volume: / Art. Nr.: 208L PM0720-DR

Specifications:

SAE 10W-30 API CJ-4/CK-4 ACEA E8, E11 JASO DH-2 MB 228.31/228.51/235.28 SCANIA Low Ash MAN M 3677/M 3477 VOLVO VDS-4 RENAULT Truck RLD-3 MACK EO-O Premium Plus MACK EO-O Premium Plus -07 MTU Type 3.1 CATERPILLAR ECF-2/-3 CUMMINS CES 20081 DETROIT DIESEL DDC 93K218 VOITH Retarder Class B

DIESEL G-21 SHPD SAE 10W-30

Product code: PM0721



SYNTHETIC TRUCK ENGINE OIL

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines of the latest generation with and without turbocharger, operating in severe conditions on low sulphur fuel. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

Volume: / Art. Nr.:

20L PM0721-20 1000L PM0721-IBC 208L PM0721-DR

Specifications:

SAE 10W-30 API CK-4/SN, CJ-4/CI-4 Plus ACEA E8, E11 JASO DH-2 **CUMMINS CES 20086/-87** RENAULT Truck RLD-4 FORD WSS-M2C171-F1 MB 228 31 DETROIT DIESEL DDC93K222/DDC93K223 MTU Type 2.1 CATERPILLAR ECF-3 ALLISON TES-439 MAN M 3775/M 3575 VOLVO VDS-4.5 Approval RENAULT VI RLD-3 Approval MACK EOS-4.5 Approval

SPEMCO°



TRANSMISSION FLUIDS

Range of automatic and manual transmission oils for trucks, cars and heavy vehicles. It includes oils for classic automatic transmissions, for variators and for dual clutch automatic transmissions. For manual transmissions, this range includes manual transmission oils, rear axle oils and universal oils.

PEMCO 465 ATF D VI

Product code: PM0465



PEMCO 460 CVT-Fluid

Product code: PM0460



SYNTHETIC TRANSMISSION FLUID

A universal all-season synthetic transmission fluid (ATF) for automatic gearboxes, hydraulic converters, hydraulic power steering systems, car hydraulic clutches and other hydraulic devices, including the ones operating in heavy-duty conditions in trucks and off-road vehicles. It ensures a flawless operation of an automatic gearbox.

Volume: / Art. Nr.:

1L	PM0465-1	20L	PM0465-20
208L	PM0465-DR		

Specifications:

JASO M315, Class 1-A-LV AISIN WARNER JWS 3309/3324 AISIN WARNER ATF-0T4/-0WS CITROEN Z 000169756 ALLISON C3/C2/C4/389 BENTLEY PY112995PA BOSCHTE-ML09 FORD ESP-M2C138-CJ/-M2C166-H/-M2C922-A1 FORD Mercon LV GM Type A Suffix A HYUNDAI SP/SP4-M1/SPH-IV/SP-II/SP-III/-IV KIA ATERED-1K/ATESP-IV/SP/SP4-M1 MB 236.11/236.12/236.15/236.2/236.41/236.5 VW G 052 533/G 052 990 A2/G 055 005 A2 NISSAN Fluid A. Matic D/J/K/W/S BMW ATF 3+/ATF4/ATF6 MAN 339A/D/F and many others

FULLY SYNTHETIC TRANSMISSION FLUID

Special synthetic gear oil for CVT – variablespeed gears. It was specially developed for use in continuously variable transmissions with a rigid articulated chain or a steel pull chain. It ensures a flawless operation of an automatic gearbox, guarantees minimal wear, a lasting service life of a transmission and fuel economy.

Volume: / Art. Nr.:

1L	PM0460-1	20L	PM0460-20
208L	PM0460-DR	1000L	PM0460-IBC

Specifications:

VW G 052 180 (TL 521 80) MB 236.20 BMW/MINI 83 22 0 429 154/CVT EZL 799A FORD WSS-M2C928-A/M2C933-A FORD CVT Fluid 23/30/Mercon C CHRYSLER CVT Fluid NS-2 JEEP CVT Fluid NS-2 SATURN DEX-CVT GM DEX-CVT MOPAR CVTF +4 HYUNDAI/KIASP-III DAIHATSU AMIX CVT Fluid DC HONDAHMMF (08260-99904)/HCF-2 MITSUBISHI DiaQueen CVT Fluid J1/J4 TOYOTA CVT Fluid TC/FE NISSAN CVT Fluid NS-1/-2 (KLE52-00004) MAZDA CVT Fluid JWS 3320 and many others

PEMCO 455 ATF TL 55

Product code: PM0455

PEMCO 453 DCT-Fluid

Product code: PM0453

PEMCO 452 ATF TL 52

Product code: PM0452





452 452 APEMCO

SYNTHETIC TRANSMISSION FLUID

A special all-season synthetic transmission fluid (ATF) for new-generation 6-speed automatic gearboxes of the ZF Group. It ensures a flawless operation of an automatic gearbox, guarantees minimal wear, a lasting service life of transmissions and fuel economy even under extreme loads. It was developed taking into account special requirements G 055 025 set by the Group VW.

Volume: / Art. Nr.:

1L	PM0455-1	20L	PM0455-20
60L	PM0455-60	208L	PM0455-DR
1000L	PM0455-IBC		

Specifications:

JASO Type 1A ALLISON C4 VW G 052 025-A2/G 052 055/G 052 162 -A1/-A2 VW G US 000 162/G 055 025-A2/G 052 990-A2 ZFTE-ML11A/11B FORD WSS-M2C922-A1 CHRYSLER SP-III JEEP/DODGEATF+/ATF+2/ATF+3/ATF+4 BMW 83 22 9 407 765/81 22 9 407 858/81 22 9 400 272 HONDAZ-1 GM Dexron II-E/II-D/III-G/III-H/T-IV MB 236.5/236.10/236.11 OPEL 1940 700/1940 767 Others LT 71141/Shell 3403-M115/LA 2634/ Texaco ETL 7045E/8072B/N402 and many others

FULLY SYNTHETIC TRANSMISSION FLUID

Special synthetic gear oil (containing PAO) for DCT – dual clutch transmission/DSG – Direct Shift Gearbox or "robots". It is not recommended for gearboxes with a "dry" clutch. It ensures a flawless operation of a gearbox, guarantees minimal wear, a lasting service life and fuel economy.

Volume: / Art. Nr.:

1L	PM0453-1	20L	PM0453-20
60L	PM0453-60	208L	PM0453-DR
1000L	PM0453-IBC		

Specifications:

VW G 052 182/G 052 529/6-speed BMW 83 22 2 148 578/148 579/147 477/0 440 214 BMW Drivelogic 7-speed (Getrag) BMW DCTF-1/DCTF-1+/MTF-LT-5/6-speed DCT FORD/NISSAN WSS-M2C936-A CHRYSLER 68044345 EA&GA CHRYSLER Powershift 6-speed (Getrag) MB 236.21/001 989 85 03 MITSUBISHI MZ320065/TC-SST 6-speed (GFT) PORSCHE 999.917.080.00 RENAULT EDC 6-speed (Getrag)/EDC-7 RENAULT Talisman R7D PEUGEOT DCS 6-speed (GFT) VOLVO 1161838/1161839 FERRARI 7-speed (Getrag)/TF DCT-3 PENTOSIN FFL-8 Others SHELLTF DCT-F3 and many others

SYNTHETIC TRANSMISSION FLUID

Special all-season synthetic transmission fluid (ATF) for modern 4-5-speed automatic transmission gearboxes of the ZF Group. It is not suitable for 6-speed automatic transmissions. It ensures a flawless operation of an automatic gearbox, guarantees minimal wear, a lasting service life of transmissions and fuel economy even under maximum loads. It was developed taking into account special requirements of the group VW G 052 162.

Volume: / Art. Nr.:

1L	PM0452-1	20L	PM0452-20
60L	PM0452-60	208L	PM0452-DR
1000L	PM0452-IBC		

Specifications:

JASO M315 Type 1A
MB 236.1/236.2/236.5/236.6/236.7/236.8/236.9
MB 236.91/236.10/236.11/ATF 3403-M115
VW G 052 990-A2/G 055 025-A2/G US 000 162
BMWATF4/LA 2634/LT71141
BMW ETL-7045/-7045 E/-8072B
BMW 81 22 9 400 272/400 275/407 858/407 859
BMW 83 22 0 024 249/024 359/026 922/ 402 413
JAGUAR WSS-M2C922-A1
LAND ROVER ATF N402/JWS 3309US
RENAULT DP-0/Matic D2/SATF-D
ZF LifeguardFluid 5 (ZF No. S671 090 170)
ZF TE-ML 05L/11A/11B/21L
AUDI G 052 990-A2/G 055 025-A2/G US 000 162
and many others

PEMCO 450 JWS 3309

Product code: PM0450

PEMCO 430 ATF D III

Product code: PM0430

PEMCO 420 ATF D II

Product code: PM0420





420 420 ATTENTO

SYNTHETIC TRANSMISSION FLUID

Universal all-season high-viscosity synthetic transmission fluid (ATF) for automatic gear-boxes. It was specially developed for all modern automatic gearboxes (manual or sequential modes, electronic control, etc.) equipped with and without a hydraulic converter lock-up.

Volume: / Art. Nr.:

1L	PM0450-1	4L	PM0450-4
20L	PM0450-20	60L	PM0450-60
208L	PM0450-DR	1000L	PM0450-IBC

Specifications:

JASO M315 Type 1A AISIN WARNER JWS 3309 VW G 052 025-A2/G 052 162-A1 VW G 052 990-A1/-A2/G 055 025-A1/-A2 BMW 83 22 0 403 248/83 22 2 163 514 BMW 83 22 9 407 807 CHRYSLER ATF+3/ATF+4 DAIHATSU ALUMIX ATF MULTI GM Dexron II/II D/II E/III F/III G/III H HONDA ATF-Z1 (not for CVT)/ATF DW-1/ATF SP-II/-III IDEMITSU K17-Jaguar X Type 2001-2005 INFINITI Matic D/J/K JATCO ATF 3100 PI085 KIA ATF-SP-II/-III MAN 339 F/V1/V2/Z1/Z2 MAZDA ATF M-III/M-V MB 236.1/236.2/236.3/236.5/236.6/236.7/236.9/236.11 and many others

SYNTHETIC TRANSMISSION FLUID

Universal all-season synthetic-based transmission fluid (ATF) for automatic gearboxes, hydraulic converters, hydraulic power steering systems, car hydraulic clutches and other hydraulic devices, including the ones operating under heavy-duty conditions in trucks and off-road vehicles. It was developed on the basis of the requirements set by GM and FORD groups.

Volume: / Art. Nr.:

1L	PM0430-1	10L	PM0430-10
20L	PM0430-20	60L	PM0430-60
208L	PM0430-DR	1000L	PM0430-IBC

Specifications:

GM Dexron III H/III G/III F FORD Mercon V FORD ESP-M2C138-CJ FORD ESP-M2C166-H ZF TE-ML 09/-ML 11/-ML 14 MB 236.1 ALLISON C4 VOITH H55.6335xx (G607) CATERPILLAR TO-2 Others Power Steering Fluid

MINERAL TRANSMISSION FLUID

Universal all-season mineral-based transmission fluid (ATF) for automatic gearboxes, hydraulic power steering systems, cab tilt mechanisms, car hydraulic clutches and other hydraulic devices, including the ones operating under heavy-duty conditions in trucks and offroad vehicles. It ensures a flawless operation of an automatic gearbox, minimal wear, a lasting service life of transmissions and fuel economy.

Volume: / Art. Nr.:

1L	PM0420-1	10L	PM0420-10
20L	PM0420-20	60L	PM0420-60
208L	PM0420-DR	1000L	PM0420-IBC

Specifications:

ALLISON C4
CATERPILLAR TO-2
GM Dexron II D
MAN 339 V1/Z1
MB 236.5/236.7
RENK
VOITH H 55.6335.xx (G607)
ZF TE-ML 03D
ZF TE-ML 04D
ZF TE-ML 11A
ZF TE-ML 14A
ZF TE-ML 17C

PEMCO 410 ATF-A

Product code: PM0410



MINERAL TRANSMISSION FLUID

Universal all-season mineral oil for power steering systems, automatic transmissions of older generations, torque converters and hydraulic clutches of all types of vehicles. Designed following GM requirements.

Volume: / Art. Nr.:

1L	PM0410-1	10L	PM0410-10
20L	PM0410-20	60L	PM0410-60
208L	PM0410-DR	1000L	PM0410-IBC

Specifications:

GMATF Type A Suffix A MB 236.2 ALLISON C4 CATERPILLAR TO-2 MAN 339 Type A

SPEMCO°



GEAR OILS

High-quality gear oils for manual gearboxes. Ensures fast and smooth shifting of gears. Reliably protect synchronisers against corrosion and cog-wheels against wear. Effectively reduces friction to save fuel and reduce CO₂ emissions.

PEMCO 580 SAE 75W-80

Product code: PM0580



SYNTHETIC GEAR OIL

Universal energy-conserving synthetic gear oil. It may be used in all manual transmission devices, including 5- and 6-speed synchronized manual transmissions, transmissions with an incorporated differential of front wheel drive vehicles, transfer cases and main gears, including hypoid. It was developed specially for ensuring the protection of the technical equipment and receiving the maximum return regardless of its operating conditions.

Volume: / Art. Nr.:

60L	PM0580-60	1000L	PM0580-IBC

Specifications:

SAE 75W-80 API GL-4/GL-5 LS MIL-L-2105 C FORD WSD-M2C200-C MACK GO-J Plus

PEMCO 578 SAE 75W-80

Product code: PM0578



SYNTHETIC GEAR OIL

Latest-generation energy-conserving synthetic gear oil for manual transmissions. It is recommended for use in all types of 5- and 6-speed synchronized manual transmissions, including transmissions with an incorporated differential of front wheel drive vehicles, transfer cases and main gears, in which the application of the standard GL-4 is prescribed. It was developed on the basis of the requirements set by the BMW group.

Volume: / Art. Nr.:

1L	PM0578-1	10L	PM0578-10
20L	PM0578-20	60L	PM0578-60
208L	PM0578-DR	1000L	PM0578-IBC

Specifications:

SAE 75W-80 API GL-4

VW G 009 317/055 726 VW G 052 171/178/512/532/527/726/798 BMW MTF LT-1/-2/-3/-4 FORD WSS-M2C200-D2 MB 235.10 MITSUBISHI MZ312644 3005401 NISSAN 999MP-MTF20P KE91699932R PEUGEOT 9730A2/9730A8 PSAB71 2330 TOYOTA JWS 227

PEMCO 501 SAE 75W-80

Product code: PM0501



SYNTHETIC GEAR OIL

Latest-generation universal energy-conserving completely synthetic all-season gear oil in compliance with the newest world standards. It is suitable for all synchronized and non-synchronized manual transmission types operating under heavy loads and at high speed in extremely low temperatures. It is developed on the basis of the requirements of European and American truck manufacturers.

Volume: / Art. Nr.: 20L PM0501-20

Specifications:
SAE 75W-80
API GL-4
EATON Manual Transmission
MAN 341 Type Z4
MAN 341 Type E3
VOLVO 97307
ZF TE-ML 01L
ZF TE-ML 02L

ZFTE-ML16K

PEMCO 595 SAE 75W-90

Product code: PM0595



SYNTHETIC GEAR OIL

Universal last-generation energy-conserving all-season synthetic gear oil for all types of manual transmissions. It is recommended for use in all types of synchronized manual transmissions (including heavy-duty), in differentials (including LS with excessive friction), steering equipment and other transmission parts where an excessive pressure and impact load is encountered and in which the use of standards GL-4 and/or GL-5 is prescribed.

Volume: / Art. Nr.:

1L	PM0595-1	10L	PM0595-10
20L	PM0595-20	60L	PM0595-60
208L	PM0595-DR	1000L	PM0595-IBC

Specifications: SAE 75W-90 API GL-4/GL-5 LS (Limited Slip) MACK GO-J Plus/GO-J MAN 342 Type M1 MAN 342 Type M2 MAN 342 Type M3 SCANIA STO 1:0

PEMCO 575 SAE 75W-140

Product code: PM0575



SYNTHETIC GEAR OIL

All-season last-generation gear oil (contains PAO) specially designed for the lubrication of all types of differentials, including excessive friction differentials where the oil "Limited Slip Oil API GL-5" is required. It was developed for hypoid, bevel and spiral gears. The unique high-viscosity PAO base of the highest quality preserving its main properties in a wide range of temperatures in combination with a latest-generation additive package ensures superior antifriction properties thus ensuring a significant fuel economy.

Volume: / Art. Nr.:

20L PM0575-20 208L PM0575-DR

Specifications:

SAE 75W-140 API GL-5 LS (Limited Slip) MIL-L-2105 D MAN 342 SCANIA STO 1:0

PEMCO 589 SAE 80W-90

Product code: PM0589



MINERAL GEAR OIL

Universal all-season mineral-based gear oil. It was developed for hypoid gears withstanding extreme loads; in heavy-duty bevel, cylindrical and worm pairs. It is recommended for use in differentials (including excessive friction – LS). It may be used for all types of manual transmissions, including the ones withstanding extremely heavy loads and high temperatures and in other transmission parts where extreme pressure and impact loads are encountered.

Volume: / Art. Nr.:

1L	PM0589-1	10L	PM0589-10
20L	PM0589-20	60L	PM0589-60
208L	PM0589-DR	1000L	PM0589-IBC

Specifications:

SAE 80W-90 API GL-5 LS (Limited Slip) API GL-4 API MT-1 MIL-L-2105 D MACK GO-J MAN 342 FORD WSD-M2C200-C

PEMCO 548 SAE 80W-90

Product code: PM0548



MINERAL GEAR OIL

Universal all-season mineral-based gear oil. It was developed for hypoid gears withstanding extreme loads; in heavy-duty bevel, cylindrical and worm pairs. It is recommended for use in differentials (including excessive friction – LS). It may be used for all types of manual transmissions, including the ones withstanding extremely heavy loads and high temperatures and in other transmission parts where extreme pressure and impact loads are encountered.

Volume: / Art. Nr.:

1L	PM0548-1	10L	PM0548-10
20L	PM0548-20	60L	PM0548-60
208L	PM0548-DR	1000L	PM0548-IBC

Specifications:

SAE 80W-90 SAE J2360 API GL-4 MILL 2105 US STEEL 224

Hypoid LSD SAE 85W-140

Product code: PM0540



MINERAL GEAR OIL

Universal all-season high-viscosity mineral-based gear oil for manual transmissions. It was developed for a safe and reliable operation of self-locking differentials (differentials with excessive friction/limited slip – LS), main gears with hypoid pinions and other manual transmission parts with bevel, worm and cylindrical pairs withstanding extreme (including impact) loads and high operating temperatures.

Volume: / Art. Nr.:

20L	PM0540-20	60L	PM0540-60
208L	PM0540-DR	1000L	PM0540-IBC

Specifications:

SAE 85W-140 API GL-5 LS (Limited Slip) API MT-1 MIL-L-2105 D

PEMCO 519 SAE 90

Product code: PM0519



MINERAL GEAR OIL

Mineral simple-composition gear oil for mild operating conditions (low loads and sliding velocities). It may be recommended for the lubrication of accessory equipment to be installed in special vehicles (reducers in autocranes, mechanisms of garbage trucks, side lifting components) when operating at temperatures no lower than - 18 °C.

Volume: / Art. Nr.:

1L	PM0519-1	20L	PM0519-20
208L	PM0519-DR		

Specifications:

SAE 90 API GL-1

PEMCO 515 SAE 140

Product code: PM0515



MINERAL GEAR OIL

Mineral simple-composition gear oil for mild operating conditions (low loads and sliding velocities). It may be recommended for the lubrication of accessory equipment to be installed in special vehicles (reducers in autocranes, mechanisms on garbage trucks, side lifting components) when operating at temperatures no lower than 0 °C.

Volume: / Art. Nr.:

1L	PM0515-1	20L	PM0515-20
208L	PM0515-DR		

Specifications:

SAE 140 API GL-1





ANTIFREEZES AND COOLANTS

Range of coolants of all major classes. It contains coolants based on inorganic (IAT-Inorganic Acid Technology), organic (OAT-Organic Acid Technology) and hybrid (HOAT-Hybrid Organic Acid Technology) technologies. This range contains both concentrates and ready-to-use solutions, as well as special antifreeze solutions for heavy-duty applications.

ANTIFREEZE 911 (-40 °C)

Product code: PM0911



PRE-MIXED COOLANT FLUID (BLUE)

Ready-to-use antifreeze based on mineral inhibitors - IAT (Inorganic Acid Technology) ready-for-use solution (not requiring being diluted and protecting the vehicle cooling system at up to -40 °C). Designed for a year-round use in any modern cooling systems containing copper, brass and aluminium components.

Volume: / Art. Nr.:

1L	PM0911-1	5L	PM0911-5
10L	PM0911-10	20L	PM0911-20
60L	PM0911-60	208L	PM0911-DR
1000L	PM0911-IBC		

Specifications:

ASTM USA D3306 BSI GB BS 6580:2010 AFNOR FRANCE NF R15-601 VOLKSWAGENTL774C BMW GS 94000 CHRYSLER MS-7170 **MAN 324 NF** MINI GS 94000 MTU MTL 5048 OPEL GME L1301 TESLA VAUXHALL GME L1301 AUDITL 774 C

ANTIFREEZE 912+ (-40 °C)

Product code: PM0912



PRE-MIXED COOLANT FLUID (RED)

Carboxylated (organic - OAT Organic Acid Technology) ready-for-use solution, designed for a year-round use in any modern cooling systems for which the use of ethylene-glycol-based antifreeze is recommended.

Volume: / Art. Nr.:

1L	PM0912-1	5L	PM0912-5
10L	PM0912-10	20L	PM0912-20
60L	PM0912-60	208L	PM0912-DR
1000L	PM0912-IBC		

Specifications:

SAE J1034 JASO M325 AFNOR FRANCE NF R15-601 (except for RA) ASTM USA D3306/D4656/D4985/ D6210 BSI GB BS 6580:2010 FVV GERMANY Heft R443 KSM SOUTH KOREA 2142 MIL BELGIUM BT-PS-606-A/FRANCE DCSEA 615/C MIL ITALY E/L-1415B/SWEDEN FSD 8704 ASTON MARTIN VW TL 774 D/774 F BFHR BERGEN ENGINES 2.13.01 BMW GS 94000 CASE NEW HOLLAND MAT 3624 CATERPILLAR MAK A4.05.09.01 CUMMINS CES 14439/14603/IS series N14 DACIA41-01-001/41-01-001-T and many others

ANTIFREEZE 913 (-40 °C)

Product code: PM0913



PRE-MIXED COOLANT FLUID (GREEN)

Hybrid (HOAT - Hybrid Organic Acid Technology) high-technology ready-to-use solution (which does not require dilution and protects the car cooling system at temperatures down to -40 °C) with excellent operating characteristics intended for a year-round use.

Volume: / Art. Nr.:

1L	PM0913-1	5L	PM0913-5
10L	PM0913-10	20L	PM0913-20
60L	PM0913-60	208L	PM0913-DR
10001	PM0913-IBC		

Specifications:

SAE J1034 AFNOR FRANCE NF R15-601 ASTM USA D3306/D4340/D4985 BSI GB BS 6580:2010 NATO S-759 BMW GS 94000 CHRYSLER MS-7170 FORD ESE-M978B4H-A/AF Plus GM 1825 M/1899 M **GM SATURN** JAGUAR JOHN DEERE MAN 324 NF MB 325.0 MINI GS 94000 MTU MTL 5048 OPEL GME L1301/GM QI130100 VAUXHALL GME L1301

ANTIFREEZE 913+ (-40 °C)

Product code: PM0914



PRE-MIXED COOLANT FLUID (YELLOW)

Hybrid (HOAT – Hybrid Organic Acid Technology) ready-to-use solution (not requiring being diluted and protecting the vehicle cooling system at up to -40 °C) with excellent operating characteristics intended for a year-round use.

Volume: / Art. Nr.:

1L	1L PM0914-1		PM0914-5
10L	PM0914-10	20L	PM0914-20
60L	PM0914-60	208L	PM0914-DR
1000L	PM0914-IBC		

Specifications:

SAE J1034 AFNOR FRANCE NF R15-601 ASTM USA D3306/D4340/D4985 BSI GB BS 6580:2010 NATO S-759 BMW GS 94000 CHRYSLER MS-7170 FORD ESE-M978B4H-A **FORDAF Plus** GM 1825 M/1899 M/SATURN **JAGUAR** JOHN DEERE MAN 324 NF MB 325 0 MINI GS 94000 MTU MTL 5048 OPEL GME L1301/GM QI130100 VAUXHALL GME L1301

ANTIFREEZE 911

Product code: PM0911C



CONCENTRATED COOLANT FLUID (BLUE)

Concentrated antifreeze based on mineral inhibitors — IAT (Inorganic Acid Technology). Antifreeze intended for a year-round use in any modern cooling system for which the use of ethylene-glycol-based antifreeze is recommended. It ensures a reliable protection of metals and alloys (brass, copper, alloy-treated steel, cast iron, aluminium) from all forms of corrosion, as well as prevents a high-temperature corrosion of aluminium surfaces of modern engines.

Volume: / Art. Nr.:

1L	PM0911C-1	5L	PM0911C-5
20L	PM0911C-20	60L	PM0911C-60
208L	PM0911C-DR		

Specifications:

AFNOR FRANCE NF R15-601
ASTM USA D3306
BSI GB BS 6580:2010
VOLKSWAGEN TL 774 C
BMW GS 94000
CHRYSLER MS-7170
MAN 324 NF
MINI GS 94000
MTU MTL 5048
OPEL GME L1301
VAUXHALL GME L1301
AUDITL 774 C
TESLA

ANTIFREEZE 912+

Product code: PM0912C



CONCENTRATED ANTIFREEZE (RED)

Carboxylated (organic - OAT Organic Acid Technology) concentrated antifreeze intended for a year-round use in any modern cooling system for which the use of ethylene-glycolbased antifreeze is recommended. It ensures a reliable protection of any cooling system.

Volume: / Art. Nr.:

1L	PM0912C-1	5L	PM0912C-5
20L	PM0912C-20	60L	PM0912C-60
208L	PM0912C-DR	1000L	PM0912C-IBC

Specifications:

and many others

SAE J1034 JASO M325 AFNOR FRANCE NF R15-601 (except for RA) ASTM USA D3306/ D4656/D4985/D6210 BSI GB BS 6580:2010 FVV GERMANY Heft R443 KSM SOUTH KOREA 2142 MIL BELGIUM BT-PS-606-A MIL FRANCE DCSEA 615/C MIL ITALY E/L-1415b MIL SWEDEN FSD 8704 NATO S-759 OENORMAUSTRIAV5123 UNE SPAIN 26-361-88/1 ASTON MARTIN VOLKSWAGENTL774 D/TL774 F BEHR

ANTIFREEZE 913

Product code: PM0913C



CONCENTRATED ANTIFREEZE (GREEN)

Hybrid (HOAT - Hybrid Organic Acid Technology) high-technology concentrated antifreeze with excellent operating characteristics intended for a year-round use in any modern cooling system for which the use of mono-ethyleneglvcol-based antifreeze is recommended.

Volume: / Art. Nr.:

20L PM0913C-20		60L PM0913C-60	
208L	PM0913C-DR	1000L	PM0913C-IBC

Specifications:

SAE J1034

AFNOR FRANCE NF R15-601 ASTM USA D3306/D4340/D4985 BSI GB BS 6580:2010 NATO S-759 BMW GS 94000 CHRYSLER MS-7170 FORD ESE-M978B4H-A FORD AF Plus GM 1825 M/1899 M/SATURN **JAGUAR** JOHN DEERE **MAN 324 NF** MB 325.0 MINI GS 94000 MTU MTL 5048 OPEL GME L1301 OPEL GM QI 130100 VAUXHALL GME L1301

ANTIFREEZE 913+

Product code: PM0914C



CONCENTRATED ANTIFREEZE (YELLOW)

Hybrid (HOAT - Hybrid Organic Acid Technology) high-technology concentrated antifreeze with excellent operating characteristics intended for a year-round use in any modern cooling system for which the use of mono-ethyleneglvcol-based antifreeze is recommended.

Volume: / Art. Nr.:

20L PM0914C-20		60L PM0914C-6	
208L	PM0914C-DR	1000L	PM0914C-IBC

Specifications:

SAE J1034

AFNOR FRANCE NF R15-601 ASTM USA D3306/D4340/D4985 BSI GB BS 6580:2010 NATO S-759 BMW GS 94000 CHRYSLER MS-7170 FORD ESE-M978B4H-A **FORDAF Plus** GM 1825 M/1899 M **GM SATURN JAGUAR** JOHN DEERE MAN 324 NF MB 325.0 MINI GS 94000 MTU MTL 5048 OPEL GME L1301/GM QI130100 VAUXHALL GME L1301

TRUCK ANTIFREEZE 911

Product code: PM9115C



CONCENTRATED ANTIFREEZE (BLUE)

Inorganic (IAT Inorganic Acid Technology) antifreeze concentrate specially developed for heavy duty vehicles. Designed for all-year-round use in all modern cooling systems containing copper, brass and aluminium components for which the use of antifreeze based on ethylene glycol is recommended.

Volume: / Art. Nr.:

20L PM9115C-20 208L PM9115C-DR

Specifications:

SAE J1034ASTM USA D3306
ASTM USA D4340
ASTM USA D4985
NATO S-759
VOLKSWAGEN TL 774 C

TRUCK ANTIFREEZE 912+

Product code: PM9126C



CONCENTRATED ANTIFREEZE (RED)

Carboxylate (OAT – Organic Acid Technology) antifreeze concentrate specially developed for heavy-duty vehicles. Designed for all-year-round use in all modern cooling systems for which the use of antifreeze based on ethylene glycol is recommended.

Volume: / Art. Nr.:

20L	PM9126C-1	208L	PM9126C-DR
1000L PM9126C-IBC			

Specifications:

SAE J1034

AFNOR FRANCE NF R15-601
AS AUSTRALIA AS 2108
ASTM USA D3306, D4340, D4985
BSI GB BS 6580
CUNAITALY NC 956-16
FVV GERMANY Heft R443
MAN 324 SNF
MB 325.3
FORD WSS-M97B44-D
GM 6277 M
RENAULT 41-01-001
VOLKSWAGEN TL 774 D/F
MAZDA
VOLVO

TRUCK ANTIFREEZE 913

Product code: PM9137C



CONCENTRATED ANTIFREEZE (GREEN)

Hybrid high-tech antifreeze concentrate (HOAT—Hybrid Organic Acid Technology) with excellent performance especially developed for heavy-duty vehicles. Designed for all-year-round use in all modern cooling systems for which the use of mono-ethylene glycol-based antifreeze is recommended.

Volume: / Art. Nr.:

20L	PM9137C-20	60L	PM9137C-60
208L	PM9137C-DR		

Specifications:

SAE J1034

SAE J1034
ASTM USA D3306/D4340/D4985
NATO S-759
BMW
DAF
FORD ESE-M978B4H-A
FORD AF Plus
GM 1825 M/1899 M
M SATURN
JAGUAR
JOHN DEERE
MAN 324 NF
MB 325.0
RENAULT Typ D
ROVER
SAAB

SPEMCO°



OILS FOR AGRICULTURAL MACHINERY

These are multi-purpose universal tractor engine-andtransmission oils, universal transmission-and-hydraulic oils and special chain saw oils.

MULTIFARM STOU SAE 10W-30

Product code: PM2501



ENGINE-TRANSMISSION OIL

Universal engine-transmission all-season semisynthetic (HČ-synthese) engine oil for modern diesel-powered engines of agricultural equipment with and without a turbocharger operating under harsh conditions as well as for manual transmissions, wet-type brake systems and even hydraulic systems of tractors.

Volume: / Art. Nr.:

20L		PM2501-20	208L	PM2501-DR
1000)L	PM2501-IBC		

Specifications:

SAE 10W-30 API CG-4/CF-4/CF/CE/CD/SF, API GL-4 ACEA E3

DIN 51524-3 HVLP

FORD NEW HOLLAND 82009201/82009202 FORD WSS-M2C159-B/-C

FORD ESN-M2C86-B/-C/FORD ESN-M2C134-D JOHN DEERE J27/J20C/J20D

MASSEY FERGUSON M 1139/1144/1135/1143/1145

MB 227.1/228.1 ALLISON C-4

NEW HOLLAND MAT 3525/3526

EATON I-286-S/M-2950-S

CASE I H MS 1204/1206/1207/1209 CASE NEW HOLLAND MAT 3526/3525

CATERPILLAR TO-2

VOLVO WB 101

Others VOLVO WB 101, suitable for wet brakes and many others

MULTIFARM STOU SAE 10W-40

Product code: PM2502



ENGINE-TRANSMISSION OIL

Universal all-weather semi-synthetic motortransmission (HC-synthes) engine oil for modern diesel engines of agricultural machinery with and without turbocharger operating in difficult conditions, as well as for mechanical transmissions, wet-type braking systems and even tractor hydraulic systems.

Volume: / Art. Nr.:

20L	PM2502-20	60L	PM2502-60
208L	PM2502-DR	1000L	PM2502-IBC

Specifications:

SAE 10W-40 API CG-4/CF-4/CF/CE/CD/SF, API GL-4 ACEA E3

DIN 51524-3 HVLP

FORD NEW HOLLAND 82009201/82009202

FORD WSS-M2C159-B/-C

FORD ESN-M2C86-B/-C/FORD ESN-M2C134-D

JOHN DEERE J27/J20C/J20D

MASSEY FERGUSON M 1139/1144/1135/1143/1145

MB 227.1/228.1 ALLISON C-4

NEW HOLLAND MAT 3525/3526

EATON I-286-S/M-2950-S

CASE I H MS 1204/1206/1207/1209

CASE NEW HOLLAND MAT 3526/3525

CATERPILLAR TO-2

VOLVO WB 101

Others VOLVO WB 101, suitable for wet brakes

and many others

MULTI UTTO WB 101

Product code: PM2701



MINERAL TRACTOR OIL

Universal and multi-functional mineral all-season tractor oil for farm holdings and tractors, agricultural vehicles with very high operating characteristics. Its main purpose: an oil for onboard gearboxes with a standard replacement interval.

Volume: / Art. Nr.:

20L	PM2701-20	208L	PM2701-DR
1000L PM2701-IBC			

Specifications:

APIGL-4 DIN 51524-2 VOLVO VCE WB 101, 97303 ALLISON C4 CASE I H MS 1204/1206/1207/1209 CASE NEW HOLLAND MAT 3525/3526 CATERPILLAR TO-2 FORD NEW HOLLAND ESN-M2C41-B FORD NEW HOLLAND ESN-M2C86-A/-B FORD NEW HOLLAND ESN-M2C134-A/-C/-D JOHN DEERE 20C/20D MASSEY FERGUSON CMS M 1135/1141/1143/1145 NEW HOLLAND NH 420A/410B SAUER SUNDSTRAND DANFOSS Hydro Static Trans Fluid KUBOTA UDT Fluid

KETTENOEL

Product code: PM1101



MINERAL CHAINSAW OIL

A highly-purified mineral-based oil for the lubrication of cutting edges of petrol and electric saws with a manual and automatic oil supply. It is designed for use in all types of powerful motorized chain saws under extreme conditions, including hardwood sawing.

Volume: / Art. Nr.:

20L	PM1101-20	208L	PM1101-DR

Specifications:

ISO Viscosity Grade 100

SPEMCO®



INDUSTRIAL OILS
AND FLUIDS

This range contains engine oils for industrial stationary internal combustion engines, oils for piston and industrial screw compressors, oils for hydraulic and gear-hydraulic systems in mobile and stationary machinery, and special oils for marine diesel engines and industrial turbines.

M.O. SAE 10W/30/40/50

Product code: PM3101/PM3103/PM3104/PM3105



MINERAL ENGINE OIL

Special highest-quality monograde (winter) mineral engine oil for medium-load diesel-powered engines with and without a turbo-charger operating under various conditions at ambient temperatures. It was designed especially for VOLVO and CATERPILLAR equipment that requires the presence of corresponding specifications.

Volume: / Art. Nr.:

20L			PM3104-20	PM3105-20
208L	PM3101-DR	PM3103-DR	PM3104-DR	PM3105-DR
1000L	PM3101-IBC		PM3104-IBC	

Specifications:

SAE 10W/30/40/50 API CH-4 MIL-L-2104 C CATERPILLAR Series 3 DAVID BROWN DB OM 616 MACK EO-J VOLVO B20

GEAR OIL ISO 220

Product code: PM2801



MINERAL REDUCTION GEAR OIL

Industrial mineral reduction gear oil for use in gear transmissions of modern imported and domestic equipment requiring the use of high-quality oils with enhanced antiwear and antiscuffing EP (Extreme Pressure) properties. It has excellent antiwear and anti-scuffing properties due to the use of the modern antiwear and antifriction additive package.

Volume: / Art. Nr.:

20L	PM2801-20	208L	PM2801-DR
1000L	PM2801-IBC		

Specifications:

ISO Viscosity Grade 220 DIN 51517-3 ISO 6743-6 (CKC) ISO 12925-1 Type CKC ISO 12925-1 Type CKD ANSI AGMA 252.04 US STEEL 224

TO-4 POWERTRAIN OIL SAE 10W/30/50

Product code: PM2601/PM2602/PM2603



MINERAL TRANSMISSION-HYDRAULIC OIL

Special all-season transmission-hydraulic mineral oil designed for use in hydraulic systems, transmissions and gearboxes (including power ones), on-board gearboxes of other devices of off-road equipment with and without low-load brakes (clutches). It complies with strict Cat TO-4, requirements imposed for TDTO (Transmission/Drive Train Oil) lubricants by the CATERPILLAR company. The specification TO-4 is the industry standard. The specification determines operating requirements imposed on hydraulic fluids for their use in CAT and analogous equipment.

Volume: / Art. Nr.:

20L	PM2601-20	PM2602-20	PM2603-20
208L	PM2601-DR	PM2602-DR	PM2603-DR

Specifications:

SAE 10W/30/50 ALLISON C4 (off-road) CATERPILLAR TO-4 KOMATSU KES 07.868.1

HYDRO ISO 32/46/68/100/150

Product code: PM2101/PM2102/PM2103 PM2104*/PM2105*



MINERAL HYDRAULIC OIL

All-season mineral hydraulic oil created for hydraulic devices of stationary and mobile equipment operating in standard and high operating temperatures. It was developed taking into account the requirements for industrial hydraulic systems operating in the conditions of high loads, pressures, temperatures and/or velocities.

Volume: / Art. Nr.:

10L	PM2101-10	PM2102-10	PM2103-10
20L	PM2101-20	PM2102-20	PM2103-20
60L	PM2101-60	PM2102-60	PM2103-60
208L	PM2101-DR	PM2102-DR	PM2103-DR
1000L	PM2101-IBC	PM2102-IBC	PM2103-IBC

^{*}Contact our sales department for quantity and volume details.

Specifications:

ISO Viscosity Grade 32/46/68/100/150 DIN 51524-2 (HLP) ISO 11158 (HM) AFNOR FRANCE NF E 48-603 CONESTOGA ISO 20763 EATON I-286-S MAG CINCINNATI P-68/P-69/ P-70 PARKER DENISON HF-0/-1/-2 PARKER DENISON Filterability TP 02100 SPERRY VICKERS I-286-S US STFEI 126/127

HYDRO HV ISO 32/46/68

Product code: PM2201/PM2202/PM2203



MINERAL HYDRAULIC OIL

All-season mineral hydraulic oil created for hydraulic devices of stationary and mobile equipment operating in standard and high operating temperatures. It was developed taking into account the requirements for industrial hydraulic systems operating in the conditions of high loads, pressures, temperatures and/or velocities.

Volume: / Art. Nr.:

10L	PM2201-10	PM2202-10	
20L	PM2201-20	PM2202-20	PM2203-20
60L		PM2202-60	
208L	PM2201-DR	PM2202-DR	PM2203-DR
1000L	PM2201-IBC	PM2202-IBC	

Specifications:

ISO Viscosity Grade 32/46/68 SAE MS 1004

JAE MS 1004
DIN 51524-2 (HM)/51524-3 (HVLP)
ISO 11158 (HM, HV, HVLP)
ASTM USA D6158
ANSI AGMA 9005-E02-RO
AIST 126/127
JCMAS P041 HK Hydraulic specification
GERMAN STEEL INDUSTRY SEB 181222
BOSCH REXROTH RE 90220
EATON M-2950-S/I-286-S3
GM LS2
MAG CINCINNATI P-68/-69/-70
PARKER DENISON HF-0/-1/-2
SPERRY VICKERS M-2950-S/I-286-S3

HYDRO HV ISO 22 VI 245

Product code: PM2204



SYNTHETIC HYDRAULIC OIL

Arctic hydraulic synthetic-based oil with an extrahigh viscosity index (no less than 245) and exceptional low-temperature properties created for hydraulic devices of the mobile equipment operating at most extreme possible operating temperatures and extremely low ambient temperatures.

Volume: / Art. Nr.:

20L	PM2204-20	208L	PM2204-DR
1000L	PM2204-IBC		

Specifications:

ISO Viscosity Grade 22 SAE MS 1004

Viscosity Index 245
DIN 51524-2/-3 (HVLP)
ISO 11158 (HM, HV, HVLP)
ASTM USA D6158
ANSI AGMA 9005-E02-RO
AIST 126/127
JCMAS P041 HK Hydraulic specification
GERMAN STEEL INDUSTRY SEB 181222
BOSCH REXROTH RE 90220
EATON M-2950-S/I-286-S3
GM LS2
MAG CINCINNATI P-68/-69/-70
PARKER DENISON HF-0/-1/-2
SPERRY VICKERS M-2950-S/I-286-S3

HYDRO HV ISO 22 VI 150

Product code: PM2210



SYNTHETIC HYDRAULIC OIL

Synthetic all-season hydraulic oil with an increased viscosity index (at least 145) and improved low-temperature properties, designed for hydraulic equipment of mobile machines operating at ultra-high environment and low ambient temperatures. Designed to meet the requirements of industrial hydraulic systems operating under ultra-high loads, pressures, temperatures and/or speeds, and especially under extremely variable temperatures.

Volume: / Art. Nr.:

Specifications:

ISO Viscosity Grade 22 SAE MS 1004

SAE MS 1004
Viscosity Index 150
DIN 51524-2/51524-3 (HVLP)
ISO 11158 (HM, HV, HVLP)
ASTM USA D6158
ANSI AGMA 9005-E02-RO
AIST 126/127
JCMAS P041 HK Hydraulic specification
GERMAN STEEL INDUSTRY SEB 181222
BOSCH REXROTH RE 90220
EATON M-2950-S/I-286-S3
GM LS2
MAG CINCINNATI P-68/-69/-70
PARKER DENISON HF-0/-1/-2
SPERRY VICKERS M-2950-S/I-286-S3

HYDRO HV ISO 46 Zinc Free

Product code: PM2206



MINERAL HYDRAULIC OIL

Mineral hydraulic oils created on the basis of highly-purified basic oils with a high viscosity index and a zinc-free additive package for the most full compliance with specific operating requirements of modern high-load and heat-stressed precision hydraulic systems, including the ones equipped with servo mechanisms and servo valves used in industrial and mobile equipment for which the manufacturer recommends using "zinc-free" hydraulic oils.

Volume: / Art. Nr.:

20L	PM2206-20	208L	PM2206-DR

Specifications:

ISO Viscosity Grade 46 SAE MS 1004

SAE MS 1004
DIN 51524-2 (HM)
DIN 51524-3 (HVLP)
ISO 11158 (HM, HV, HVLP)
ASTM USA D6158
ANSI AGMA 9005-E02-RO
AIST 126/127
JCMAS P041 HK Hydraulic specification
GERMAN STEEL INDUSTRY SEB 181222
BOSCH REXROTH RE 90220
EATON M-2950-S/I-286-S3
GM LS2
MAG CINCINNATI P-68/-69/-70
PARKER DENISON HF-0/-1/-2
SPERRY VICKERS M-2950-S/I-286-S3

HYDRO HV ISO 32 Zinc Free

Product code: PM2208



MINERAL HYDRAULIC OIL

All-season mineral hydraulic oils created on the basis of highly-purified basic oils with a high viscosity index and a zinc-free (low-ash) additive package for the most full compliance with specific operating requirements of modern highload and heat-stressed precision hydraulic systems, including the ones equipped with servo mechanisms and servo valves used in industrial and mobile equipment for which the manufacturer recommends using "zinc-free" hydraulic oils.

Volume: / Art. Nr.:

20L PM2208-20 208L PM2208-DR

Specifications:

ISO Viscosity Grade 32 SAE MS 1004

DIN 51524-2 (HM)
DIN 51524-3 (HVLP)
ISO 11158 (HM, HV, HVLP)
ASTM USA D6158
ANSI AGMA 9005-E02-RO
AIST 126/127
JCMAS P041 HK Hydraulic specification
GERMAN STEEL INDUSTRY SEB 181222
BOSCH REXROTH RE 90220
EATON M-2950-S/I-286-S3
GM LS2
MAG CINCINNATI P-68/-69/-70
PARKER DENISON HF-0/-1/-2
SPERRY VICKERS M-2950-S/I-286-S3

COMPRESSOR OIL ISO 46

Product code: PM2901



MINERAL COMPRESSOR OIL

Specials highly-purified paraffin ashless mineral compressor oil with an extended replacement age. It ensures a stable and continuous operation of the equipment throughout the entire operation period.

Volume: / Art. Nr.:

20L PM2901-20 208L PM2901-DR

Specifications:

ISO Viscosity Grade 46

BROWN BOVERI HTGD 90117 ISO DP 6521 (L-DAA), 6521 (L-DAB) ISO DP 6521 (L-DAG), 6521 (L-DAH) DIN 51506 (VBL), 51506 (VCL), 51506 (VDL) DIN 51515-1 (L-TD), 51515-2 (L-TG) DIN 51517-2 (CL), 51524-1, 51524-2 VDMA 24568 SIEMENS TLV 9013 MAG CINCINNATI P-38, P-55, P-54, P-57, P-62 BSIGBBS489 GE GEK 32568 A, GEK 32568 C CEGB 207001 US STEEL 120 MITSUBISHI E00-87182 MILL 17672 D PARKER DENISON HF-0 AFNOR FRANCE NF E 48-603

COMPRESSOR OIL ISO 100

Product code: PM2902



MINERAL COMPRESSOR OIL

Highly-purified paraffin low-ash mineral compressor oil with an extended replacement age. It ensures a stable and continuous operation of the equipment throughout the entire operation period.

Volume: / Art. Nr.:

20L PM2902-20 208L PM2902-DR

Specifications:

ISO Viscosity Grade 100

BROWN BOVERI HTGD 90117 ISO DP 6521 (L-DAA), 6521 (L-DAB) ISO DP 6521 (L-DAG), 6521 (L-DAH) DIN 51506 (VBL), 51506 (VCL), 51506 (VDL) DIN 51515-1 (L-TD), 51515-2 (L-TG) DIN 51517-2 (CL), 51524-1, 51524-2 VDMA 24568 SIEMENS TLV 9013 MAG CINCINNATI P-38, P-55, P-54, P-57, P-62 BSI GB BS 489 GE GEK 32568 A, GEK 32568 C

GE GER 32568 A, GER 32568 C CEGB 207001 US STEEL 120 MITSUBISHI E00-87182 MILL 17672 D PARKER DENISON HF-0 AFNOR FRANCE NF E 48-603

COMPRESSOR OIL ISO 150

Product code: PM2903*



MINERAL COMPRESSOR OIL

Highly-purified paraffin low-ash mineral compressor oil with an extended replacement age. It ensures a stable and continuous operation of the equipment throughout the entire operation period.

Volume: / Art. Nr.:

208L PM2903-DR

*Contact our sales department for quantity and volume details.

Specifications:

ISO Viscosity Grade 150

DIN 51506 (VBL)

DIN 51506 (VCL)

DIN 51506 (VDL)

ISO DP 6521 L-DAA

ISO DP 6521 L-DAB

ISO DP 6521 L-DAG ISO DP 6521 L-DAH

COMPRESSOR OIL ISO 220

Product code: PM2904*



MINERAL COMPRESSOR OIL

Highly-purified paraffin low-ash mineral compressor oil with an extended replacement age. It ensures a stable and continuous operation of the equipment throughout the entire operation period.

Volume: / Art. Nr.:

208L PM2904-DR

*Contact our sales department for quantity and volume details.

Specifications:

ISO Viscosity Grade 220

DIN 51506 (VBL)

DIN 51506 (VCL)

DIN 51506 (VDL)

ISO DP 6521 L-DAA

ISO DP 6521 L-DAB

130 DP 632 I L-DAB

ISO DP 6521 L-DAG ISO DP 6521 L-DAH

TURBINE ISO 32/46/68

Product code: PM2301*/PM2302*/PM2303*



INDUSTRIAL TURBINE OIL

High-quality turbine oil with an increased replacement age designed for the lubrication and cooling of bearings in stationary steam and water turbines at normal and elevated temperatures and manufactured on a highly-purified base.

Volume: / Art. Nr.:

208L PM2301-DR PM2302-DR PM2303-DR

*Contact our sales department for quantity and volume details.

Specifications:

ISO Viscosity Grade 32/46/68

DIN 51524-1/-2/-3

DIN 51517-2

DIN 51506 (VBL, VCL, VDL)

DIN 51515-1 (L-TD)/-2 (TG)

ISO DP 6521 (DAA/DAB/DAH/DAG)

AFNOR FRANCE NF E 48-603

BSIGBBS489

CEGB 207001

MILL 17672 D

VDMA24568

BROWN BOVERI HTGD 90117

 $\mathsf{GE}\,\mathsf{GEK}\,32568\,\mathsf{A}/\mathsf{GEK}\,32568\,\mathsf{C}$

MAG CINCINNATI P-38/-55/-54/-57/-62

MITSUBISHI E00-87182

PARKER DENISON HF-0

SIEMENSTLV 9013

US STEEL 120

MARINE 09-SERIES

Product code: PM2401*/PM2402*/PM2403*



MARINE OIL

Highly-purified paraffin low-ash mineral compressor oil with an extended replacement age. It ensures a stable and continuous operation of the equipment throughout the entire operation period.

Volume: / Art. Nr.:

PM2401 PM2402 PM2403

*Contact our sales department for quantity and volume details.

Specifications:

SAE 30/40/50 API CF-4 TBN 9

MARINE 12-SERIES

Product code: PM2404*/PM2405*



MARINE OIL

High performance diesel engine oil developed for use on low sulphur distillate fuels in marine and industrial applications. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. They have superior water separating properties and provide excellent corrosion protection. PEMCO Marine 1230 is formulated with base oils having proven successful performance in diesel engines. The additive system is balanced to provide excellent resistance to thermal degradation under moderately severe operating conditions. They also provide good engine cleanliness and superior wear protection.

Volume: / Art. Nr.:

PM2404 PM2405

*Contact our sales department for quantity and volume details.

Specifications:

SAE 30/40 API CF-4 TBN 12

MARINE 3040

Product code: PM2406*



MARINE OIL

High-alkaline mineral motor oil for medium-speed heavy marine diesel engines operating on fuel oil with a sulfur content of up to 4.0 %. Applicable for auxiliary engines. It has excellent anti-friction, anti-wear and extreme pressure properties, which significantly extends the life of the equipment in all, even the most extreme, operating modes and provides significant fuel economy. Excellent protection against wear on the camshaft and bearings.

Volume: / Art. Nr.:

PM2406

*Contact our sales department for quantity and volume details.

Specifications:

SAE 40 API CF-4 TBN 30

MARINE X70

Product code: PM2407*



MARINE OIL

Superior quality, extra high performance, marine diesel engine cylinder oil. This bold new approach in cylinder lubricant technology provides maximum protection from adhesive and corrosive wear at the higher operating temperatures and pressures of today's modern crosshead engines. Marine X70 employs additives with substantially greater thermal stability and superior acid-corrosion protection. Through the use of unique formulation technology, this higher viscosity is attained with little or no use of thermally less stable, deposit-producing bright stock.

Volume: / Art. Nr.:

PM2407

Specifications:

SAE 50 API CF TBN 70

EMULSION

Product code: PM1103



GREASING AND COOLING FLUID

Water-miscible greasing and cooling fluid (GCF) with a high content of mineral oil and a highly effective additive package, providing multi functionality and stability of the emulsion for machining ferrous and non-ferrous metals. Mixes easily with water, has long service life of the emulsion. Economical to use.

Volume: / Art. Nr.:

20L PM1103-20 208L PM1103-DR

Specifications:

TYPE Water-miscible emulsion

^{*}Contact our sales department for quantity and volume details.

THE CONCISE GUIDE TO LUBRICATION

The development of ultra-modern engine technology, with high performance density, minimal oil volume and oil change intervals of up to 30,000 km in the passenger car sector, would be inconceivable without advanced high-performance lubricants. The lubricant "engine oil" is an integral component of the engines currently costing between Euro 5,000 and 15,000 on modern vehicles.

This fact alone should be reason enough not to be tempted to make false economies. The operating life of an engine depends substantially on the basic oil used, and on the viscosity of the engine oil. Whether the oil takes 2.8 seconds to reach the most remote point of the engine at low temperatures in the case of 0W-XX oils or 48 seconds in the case of 15W-XX oils has a decisive influence on the engine's operating life. If the engine is of lubricated thoroughly, the metallic surfaces which slide against each other will make contact. The engine service life is shortened significantly as a result. In the field of lubrication technology, this process is referred to as mixed friction. You, the owner of a vehicle, need to play your part in keeping any periods of mixed friction in the engine as short as possible.

Advantages of synthetic engine oils: easier starting, better flow properties at low temperatures, superior wears protection behaviour, greater stability at high temperatures, lower fuel and oil consumption.

SAE CATEGORIES

Engine and transmission oils are described by means of SAE categories (SAE = Society of Automotive Engineers), which are used as a form of viscosity designation. Two series of designations are used.

The letter "W" stands for winter, Figures such as 0W, 5W, 10W, 15W, 20W and 25W at engine oils such as 70W, 75W, 80W, 85W, 90W, 140W at transmission oils describe a specified flow behaviour based on the maximum low-temperature viscosity, the maximum limit point temperature and the minimum viscosity at 100 °C. The second figure after the "W", such as 20, 30, 40, 50, 60 at engine oils such as 80, 85, 90, and 140 at transmission oils denotes the viscosity of engine and transmission oils at a temperature of 100 °C. As these temperatures do not adequately reflect the conditions in which engine oils are used, the high temperature viscosity HTHS (high temperature high shear) at 150 °C at high shear (high engine speed) is calculated. The purpose of determining the limit values of HTHS is that multigame oils with VI improvers likewise assure the necessary degree of lubricating reliability at high oil temperatures and high engine speeds.

PERFORMANCE CATEGORIES

There are numerous test specifications and testing methods for determining the performance of engine oils in realistic test runs. Various vehicle engines are used for test purposes. The US classifications of the API, the European specifications of the ACEA committee, international specifications of ILSAC and the specifications of the individual vehicle manufacturers are in common use worldwide.

API (American Petroleum Institute)

The "American Petroleum Institute" divides engine oils into two performance categories: the classification for gasoline or spark ignition engines denoted by the letter "S" (Service Classes), and

the classification for diesel engines denoted by the letter "C" (Commercial Classes). A further letter, from an ascending alphabetical sequence, is then appended to the initial "S" or "C" to indicate the performance level. The highest classification currently in use for spark-ignition engines is API SN. In the case of diesel engines, API CK-4, represents the highest performance level. Engine oils meeting the requirements of API SP will deliver several performance advantages versus current API SN and API SN PLUS categories for spark-ignited internal combustion engines.

The currently valid performance categories:

•API SN, API SP, SN plus, SM, SL, SJ.

•API CK-4, CJ-4, Cl-4+, Cl-4, CH-4, CG-4, CF-4, CF. In connection with the API classifications it should be noted that the tests are designed predominantly for US vehicles and their operating conditions. The API classifications are consequently of only limited use for European countries.

ACEA (Association des Constructeurs Europeens d'Automobiles) The ACEA specifications describe the minimum requirements for present-day, ultramodern engine oils for motor vehicles; these are the toughest in the world. The ACEA committee comprises European vehicle manufacturers, the European Association of Lubricant Manufacturers, additives manufacturers and test developers.

Engine oils are divided into four performance categories in this case:

ACEA A = for spark-ignition or gasoline engines.

•ACEA B = for diesel engines in passenger cars and light commercial vehicles.

•ACEA C = for gasoline engines or diesel engines with Exhaust fume follow-up treatment e. g. diesel particulate filter.

•ACEA E = for diesel engines in heavy commercial vehicles the letters "A", "B", "C" or "E" are then followed by a digit, e.g. 1, 2, 3, 4 or for commercial vehicles 5, 6, 7, 9, which serves as an indication of the oil's performance. It is not necessarily the case that the higher the digit, the higher the quality (see table "ACEA Specifications"). In addition, the digit indicating the performance level for the oil industry is followed by the year of introduction and possibly by the issue reference.

ILSAC (International Lubricants Standardization and Approval Committee)

ILSAC is formed in 1992 by AAMA (American Automobile Manufacturers Association, representatives of Ford Motor Company and General Motors Corporation) and JAMA (Japan Automobile Manufacturers Association) to define the need, parameters, licensing and administration of lubricant specifications.

ILSAC standards are divided into five performance categories:

*ILSAC GF-1 standard indicates the oil meets both API SH and the Energy Conserving II (EC-II) requirements.

•ILSAC GF-2. The oil must meet both API SJ and EC-II requirements. The GF-2 standards require 0W-30, 0W-40, 5W-20, 5W-30, 5W-40, 5W-50, 10W-30, 10W-40, 10W-50 motor oils to meet stringent requirements for phosphorus content, low temperature operation, high temperature deposits, foam control.

•ILSAC GF-3 oil must meet both API SL and the EC-II requirements. The GF-3 standard has more stringent parameters regarding long-term effects of the oil on the vehicle emission system, improved fuel economy and improved volatility, deposit control and viscosity performance. The standard also requires less additive degradation and reduced oil consumption rates over the service life of the oil.

•ILSAC GF-4 is similar to the API SM service category, but it requires an additional sequence VIB Fuel Economy Test (ASTM D6837)

•ILSAĆ GF-5. Designed to provide improved high temperature deposit protection for pistons and turbochargers, more stringent sludge control, improved fuel economy, enhanced emission control system compatibility, seal compatibility, and protection of engines operating on ethanol-containing fuels up to E85.

•ILSAC GF-6 was designed to reduce the premature ignition at low rpm (LSPI) observed in vehicles equipped with GDI engines. The new ILSAC GF-6 has balanced these equally important needs: fuel economy and fuel economy retention, emission system compatibility, engine oil robustness to protect engines from wear related to idle stop and failures related to LSPI and turbocharger depositing.

LOW-VISCOSITY OILS

The designation "low-viscosity oil" depends not on the grade of basic oil used (fully synthetic, semi-synthetic), but solely on the low-temperature viscosity. Low-viscosity oils are year-round oils with a low-temperature viscosity of SAE 0W-XX, 5W-XX and 10W-XX. Low-viscosity engine oils reduce the friction in the engine, thus saving fuel. The engine in addition becomes fully lubricated more rapidly, significantly reducing wear and extending its operating life. Mineral engine oils. Engine oils are conventionally made from mineral oils. However, these oils are limited in terms of their performance capability due to increasing requirements such as extended oil change intervals, high engine output and demands for low-viscosity properties. Typical viscosities: 10W-40, 15W-40 or 20W-50.

SEMI-SYNTHETIC ENGINE OILS

Semi-synthetic engine oils are a blend of mineral and synthetic basic oils. They improve cold-starting properties, keep the engine clean and afford excellent protection against wear. Typical viscosity categories: SAE 10W-40.

HC SYNTHESE ENGINE OILS

HC Synthese engine oils are based on oils which have been further processed at the refinery using elaborate methods. Through the constant further development of these base oils, it was possible to meet the high requirements of state-of-the-art engine design. These days a lubricant using this technology is required in almost all new vehicles. Typical viscosity categories: SAE 5W-XX or 10W-XX.

FULLY SYNTHETIC ENGINE OILS

Synthetic base oils nowadays only sometimes serve as the basis and prerequisite for advanced engine technology. Despite the increasing performance density, they enable long oil change intervals, lower oil and fuel consumption as well as a long engine service life. Typical viscosity categories: SAE 0W-XX, 5W-XX.



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