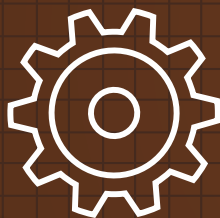


PEMCO®



PRODUCT CATALOGUE



PEMCO®

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ENGINE OILS FOR PASSENGER CARS

PEMCO®



iDRIVE 370

Pemco iDRIVE 370 is a multipurpose, multigrade, fully synthetic power-saving engine oil for all types of present-day engines. Thanks to the unique bisynthetic basis it provides instant lubrication at extremely low temperatures. Prevents start-up wear-out. Provides extreme cleanness of the engine components. Guarantees maximum wear-out prevention at all functioning stages of the engine.

Specifications:

SAE 0W-40, API SN, ACEA A3/B3/B4, MB 229.3.

Volume:	Art.-Nr.:
1L	PM0370-1
4L	PM0370-4
10L	PM0370-10
20L	PM0370-20
60L	PM0370-60
208L	PM0370-DR



iDRIVE 360

Pemco iDRIVE 360 is a synthetic engine oil suitable for use in modern automotive petrol and diesel engines with DPF where the manufacturer recommends an ACEA C4 lubricant. Keeps the engine's most sensitive parts clean thanks to its advanced detergent and dispersive additives. Ensures easy cold starts and fuel economy due to its extreme fluidity. Special unique technology of wear reduction.

Specifications:

SAE 5W-30, ACEA C4, RENAULT RN0720, MB 226.51/229.51.

Volume:	Art.-Nr.:
1L	PM0360-1
5L	PM0360-5
10L	PM0360-10
20L	PM0360-20
60L	PM0360-60
208L	PM0360-DR
1000L	PM0360-IBC

ENGINE OILS FOR PASSENGER CARS



iDRIVE 350

Pemco iDRIVE 350 is a specially developed Long-life motor oil for gasoline and turbo diesel engines of passenger cars and light trucks with or without Unit Injector (PDU). Avoid wear on valve train in order to preserve engine performances.

Specifications:

SAE 5W-30, API SN/CF, ACEA C3/A3/B4, VW 504.00/507.00, MB 229.51, BMW LL-04.

Volume:	Art.-Nr.:
1L	PM0350-1
4L	PM0350-4
4L	PM0350-4Metal
5L	PM0350-5
10L	PM0350-10
20L	PM0350-20
60L	PM0350-60
208L	PM0350-DR
1000L	PM0350-IBC



iDRIVE 345

Pemco iDRIVE 345 engineered with advanced technology to meet VW 505.01 specification. Offers advanced protection for major European diesel passenger vehicles. Provides maximum protection for today's smaller, high RPM engines. Use in gasoline engines are possible.

Specifications:

SAE 5W-30, API SN/CF, ACEA C2/C3, VW 505.01/505.00/502.00, MB 229.51, BMW LL-04, PORSCHE, GM dexos2, PSA B712290.

Volume:	Art.-Nr.:
1L	PM0345-1
5L	PM0345-5
10L	PM0345-10
20L	PM0345-20
60L	PM0345-60
208L	PM0345-DR
1000L	PM0345-IBC



iDRIVE 343

Pemco iDRIVE 343 is a HC synthesis engine oil for the petrol and diesel engines with pumped-jet injection systems and with exhaust emission standards Euro 4 or Euro 5. Specially developed for engines with turbocharger, direct injection, exhaust treatment and for modern engines which require oils with the ACEA C3 specification. Contains antioxidants and prevents the formation of sediments, thereby ensuring clean engine parts. Provides excellent cold starting of the engine even at extremely low temperatures. Compatible with catalytic converters and particulate filters (DPF). Can be used for engines powered with natural gas (CNG) and liquefied petroleum gas (LPG).

Specifications:

SAE 5W-40, API SN, ACEA C3, VW 502.00/505.01, MB 229.31/226.5, BMW LL-04, PORSCHE A40, GM dexos2, FORD WSS-M2C917A, RENAULT RN0700/RN0710.

Volume:	Art.-Nr.:
1L	PM0343-1
5L	PM0343-5
10L	PM0343-10
20L	PM0343-20
60L	PM0343-60
208L	PM0343-DR
1000L	PM0343-IBC



iDRIVE 340

Pemco iDRIVE 340 is a modern universal synthetic fuel economy motor oil formulation, produced with high quality synthetic base oils and a well-balanced choice of advanced additives to obtain the safe lubrication film even at very high temperatures, very good detergency and dispersion and strong protection against wear, corrosion and foaming. Recommended for use in all petrol and diesel engines, with or without turbo charging.

Specifications:

SAE 5W-40, API SN/CF, ACEA A3/B4, VW 502.00/505.00, MB 229.3/226.5, OPEL GM LL-B-025, PORSCHE A40, RENAULT RN0710/0700.

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



iDRIVE 338

Pemco iDRIVE 338 is synthetic engine oil developed for all modern engines: with turbocharger and without, multivalve, with direct fuel injection as well as for gas-operated engines. It contains unique additives providing high anti wear-out and energy-efficient properties. It guarantees safe lubrication even at cold temperatures. It effectively prevents sludge formation.

Specifications:

SAE 5W-40, API SN/CF, ACEA A3/B4, VW 502.00/505.00, MB 229.1, RENAULT RN0700.

Volume:	Art.-Nr.:
1L	PM0338-1
4L	PM0338-4
5L	PM0338-5
10L	PM0338-10
20L	PM0338-20
60L	PM0338-60
208L	PM0338-DR
1000L	PM0338-IBC



iDRIVE 335

Pemco iDRIVE 335 is modern premium class engine oil for the lubrication of all four stroke engines of Japanese, Korean and American light vehicles, minivans and SUVs. Optimum for up-to-date diesel and petrol engines (GDI, D-4D and NEO-DI) with multivalve technology and turbocharger (DOHC, VVT-i, VTC, CVVT, VTEC, VVL, VVTL-i, MIVEC etc.).

Specifications:

SAE 5W-30, API SN, ILSAC GF-5, GM dexos1, NISSAN, MITSUBISHI, SUZUKI, GM, TOYOTA, HONDA, SUBARU, HYUNDAI, KIA MOTORS.

Volume:	Art.-Nr.:
1L	PM0335-1
4L	PM0335-4
10L	PM0335-10
20L	PM0335-20
60L	PM0335-60
208L	PM0335-DR
1000L	PM0335-IBC

ENGINE OILS FOR PASSENGER CARS



O.E.M. 5W-30

Pemco O.E.M. 5W-30 is a synthetic high-performance fuel economy engine oil for FORD and VOLVO gasoline and diesel engines. Suitable for new technology engines, requiring fuel economy lubricants with standards ACEA A5/B5. Keeps the engine's most sensitive parts clean thanks to its advanced detergent and dispersive additives. Easy cold starts and fuel economies due to its extreme fluidity.

Specifications:

SAE 5W-30, API SM/CF, ACEA A5/B5, A1/B1, ILSAC GF-4, FORD WSS-M2C913-C.

Volume:	Art.-Nr.:
5L	PM0367-5
10L	PM0367-10
20L	PM0367-20
60L	PM0367-60
208L	PM0367-DR
1000L	PM0367-IBC



iDRIVE 330

Pemco iDRIVE 330 is a synthetic engine oil designed for use in modern petrol and diesel engines with turbocharger and without. Developed by using the special unique technology of wear reduction. Provides a high level of protection and guarantees an exceptional cleanliness of the engine components.

Specifications:

SAE 5W-30, API SL, ACEA A3/B4, ILSAC GF-5, VW 502.00/505.00, MB 229.3, BMW LL-01.

Volume:	Art.-Nr.:
1L	PM0330-1
4L	PM0330-4
5L	PM0330-5
10L	PM0330-10
20L	PM0330-20
60L	PM0330-60
208L	PM0330-DR



iDRIVE 325

Pemco iDRIVE 325 is a modern, premium class engine oil for the lubrication of all four stroke engines of Japanese, Korean and American light vehicles, minivans and SUVs. Ideal for up-to-date petrol engines with direct injection, turbochargers and variable valve timing (VTEC, VVT-i, VTC, CVVT, VVL, VVTL-i, MIVEC etc.).

Specifications:

SAE 5W-20, API SN, ILSAC GF-5, GM dexos1, HYUNDAI, KIA MOTORS, FORD WSS-M2C945-A/B/WSS-M2C930-A/WSS-M2C925-A, CHRYSLER, HONDA, ACURA, MAZDA, MITSUBISHI, TOYOTA, NISSAN, ISUZU, SUBARU, SUZUKI.

Volume:	Art.-Nr.:
1L	PM0325-1
4L	PM0325-4
10L	PM0325-10
20L	PM0325-20
60L	PM0325-60
208L	PM0325-DR
1000L	PM0325-IBC



iDRIVE 260

Pemco iDRIVE 260 is a multipurpose multigrade semi-synthetic engine oil. It contains unique additives providing high anti wear-out and energy-efficient properties. Guarantees safe lubrication even at cold temperatures. Effectively prevents sludge formation. It is designed for all modern engine types: with and without turbocharge, multivalve, with direct injection and gas engines.

Specifications:

SAE 10W-40, API SN/CF, ACEA A3/B4, VW 502.00/505.00, MB 229.1, RENAULT RN0700.

Volume:	Art.-Nr.:
1L	PM0260-1
4L	PM0260-4
4L	PM0260-4Metal
5L	PM0260-5
10L	PM0260-10
20L	PM0260-20
60L	PM0260-60
208L	PM0260-DR
1000L	PM0260-IBC



iDRIVE 230

Pemco iDRIVE 230 is a semi-synthetic engine oil developed for use in petrol and diesel engines. Highly resistant to ageing. Effectively reduces the formation of scale.

Specifications:

SAE 10W-30, API SL/CF, ACEA A3/B3, MB 229.1, VW 501.01/505.00.

Volume:	Art.-Nr.:
1L	PM0230-1
4L	PM0230-4
5L	PM0230-5
10L	PM0230-10
20L	PM0230-20
60L	PM0230-60
208L	PM0230-DR
1000L	PM0230-IBC



O.E.M. 10W-40

Pemco O.E.M. 10W-40 is a semi-synthetic engine oil specially designed to use in modern petrol and diesel engines for CHEVROLET, OPEL and GM. Effectively protects against wear and provide an exceptional clarity of details. Designed to meet the requirements for operations in hard conditions and long maintenance intervals.

Specifications:

SAE 10W-40, API SL/CF, ACEA A3/B3, MB 229.1, VW 501.00/505.00, CHEVROLET, OPEL, GM, SAAB, DAEWOO.

Volume:	Art.-Nr.:
1L	PM0262-1
5L	PM0262-5
10L	PM0262-10
20L	PM0262-20
60L	PM0262-60
208L	PM0262-DR
1000L	PM0262-IBC

ENGINE OILS FOR PASSENGER CARS



iDRIVE 214

Pemco iDRIVE 214 is a super multigrade oil of the latest generation, specially designed for the lubrication of all 4-stroke diesel engines, equipped with a turbocharger. Provides reliable protection against deterioration, exclusive cleanliness of details of the engine and easy start at low temperatures. Use in gasoline engines is possible.

Specifications:

SAE 10W-40, API CH-4/SL, ACEA B3/A3, MB 228.3/229.1.

Volume:	Art.-Nr.:
1L	PM0214-1
5L	PM0214-5
7L	PM0214-7
10L	PM0214-10
20L	PM0214-20
60L	PM0214-60
208L	PM0214-DR
1000L	PM0214-IBC



iDRIVE 210

Pemco iDRIVE 210 is a universal semi-synthetic engine oil, specially manufactured for the lubrication of engines working under severe conditions. Recommended for the lubrication of all gasoline and diesel engines of passenger cars and light trucks. Excellent detergent and dispersant properties. Very good resistance against oxidation. Low ash content.

Specifications:

SAE 10W-40, API SL/CF, ACEA A3/B3, MB 229.1.

Volume:	Art.-Nr.:
1L	PM0210-1
4L	PM0210-4
5L	PM0210-5
10L	PM0210-10
20L	PM0210-20
60L	PM0210-60
208L	PM0210-DR
1000L	PM0210-IBC



iDRIVE 140

Pemco iDRIVE 140 is formulated from quality mineral base stocks combined with multifunctional additive package. It has perfect lubricating properties and viscosity stability combined with deposit and wear control. Protects engine under a wide variety of operating conditions. Pemco iDRIVE 140 is recommended for gasoline engines and light duty diesel with natural aspiration requiring an API SL/CF product.

Specifications:

SAE 15W-40, API SL/CF.

Volume:	Art.-Nr.:
1L	PM0140-1
4L	PM0140-4
5L	PM0140-5
10L	PM0140-10
20L	PM0140-20
60L	PM0140-60
208L	PM0140-DR
1000L	PM0140-IBC



iDRIVE 114

PEMCO iDRIVE 114 is a multigrade engine oil on a mineral basis for high-augmented diesel engines of passenger cars and trucks with turbochargers. Perfectly balanced additives effectively protect from wear out and prevent corrosion. Reduces sooting and carbon formation. Provides safe lubrication and engine cleanliness under any usage conditions.

Specifications:

SAE 15W-40, API CG-4/CF-4/CF/SL, ACEA E3/B3/A3, MB 228.3/229.1, MAN M 3275, VOLVO VDS, MTU DDC Type 2, RENAULT RD/RGD.

Volume:	Art.-Nr.:
1L	PM0114-1
5L	PM0114-5
7L	PM0114-7
10L	PM0114-10
20L	PM0114-20
60L	PM0114-60
208L	PM0114-DR
1000L	PM0114-IBC



iDRIVE 105

Pemco iDRIVE 105 is specific engine oil with excellent detergent and dispersant properties and high lubrication power for all passenger cars and light trucks, fitted with a gasoline or diesel engine.

Specifications:

SAE 15W-40, API SG/CD.

Volume:	Art.-Nr.:
1L	PM0105-1
5L	PM0105-5
10L	PM0105-10
20L	PM0105-20
60L	PM0105-60
208L	PM0105-DR
1000L	PM0105-IBC



iDRIVE 102

Pemco iDRIVE 102 is a multigrade engine oil with highly purified mineral basis for highly accelerated gasoline and diesel engines with and without turbocharge used in tough usage conditions. Contains low-ash additives to prolong the endurance of the catalyst. Has stable viscosity during the whole used period. Guarantees safe engine combustion at extreme loads.

Specifications:

SAE 20W-50, API SL/CF.

Volume:	Art.-Nr.:
1L	PM0102-1
4L	PM0102-4
5L	PM0102-5
7L	PM0102-7
10L	PM0102-10
20L	PM0102-20
60L	PM0102-60
208L	PM0102-DR
1000L	PM0102-IBC

ENGINE OILS FOR PASSENGER CARS



iDRIVE 050

Pemco iDRIVE 050 is a high performance oil suitable for turbo-charged diesel engines or naturally aspirated diesel engines of trucks, construction equipment, fishing boats, locomotives and stationary diesel engines. Also suitable for gear boxes, torque converters and hydraulic systems if the manufacturer requires an engine oil in the appropriate grade for these parts.

Specifications:
SAE 50, API CH-4.

Volume:	Art.-Nr.:
5L	PM0050-5
10L	PM0050-10
20L	PM0050-20
60L	PM0050-60
208L	PM0050-DR
1000L	PM0050-IBC

OILS FOR MOTORBIKES AND OUTBOARD ENGINES

PEMCO®



iTWIN 620

Pemco iTWIN 620 is a mineral oil for air-cooled 2-stroke gasoline engines, intended for machines, of which the fuel tank is filled with a mixture of gasoline and oil, and also for machines, equipped with separate tanks. Ensures excellent anti-wear protection. Always follow the fuel ratios recommended by the constructor.

Specifications:

API TC, JASO FB, ISO L-EGB.

Volume:	Art.-Nr.:
1L	PM0620-1
20L	PM0620-20
60L	PM0620-60
208L	PM0620-DR
1000L	PM0620-IBC



iBOAT 670

Pemco iBOAT 670 is a semi-synthetic engine oil for water- and aircooled two-stroke engines. Recommended for use in outboard engines, water scooters, jet skis. Ensures excellent anti-wear protection. Always follow the fuel ratios recommended by the constructor.

Specifications:

API TD, NMMA TC-W3.

Volume:	Art.-Nr.:
1L	PM0670-1
10L	PM0670-10
20L	PM0670-20
60L	PM0670-60
208L	PM0670-DR
1000L	PM0670-IBC

OILS AND ADDITIVES FOR TRUCKS AND BUSES



PEMCO®



DIESEL M SHPD

Pemco DIESEL M SHPD is a special high quality Super High Performance Diesel engine oil with mineral basis for heavily loaded lorries and regular buses' diesels. Provides safe engine combustion at extreme loads and perfect protection from the components wear out and corrosion. Thanks to low congealation temperature provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanness and safe lubrication of the engine components. Prolongs the interval between oil changes (according to the producer's instructions).

Specifications:

SAE 15W-40, API CH-4/SL, ACEA E3/A3/B3/B4, MB 228.3/229.1, MAN M 3275, VOLVO VDS-2, MTU DDC Type 2.

Volume:	Art.-Nr.:
10L	PM0701-10
20L	PM0701-20
60L	PM0701-60
208L	PM0701-DR
1000L	PM0701-IBC



DIESEL M-50 SHPD

Pemco DIESEL M-50 SHPD is a special multigrade Super High Performance Diesel engine oil of the highest quality with mineral basis and additives providing optimal wear-out protection at every engine combustion mode. Is produced for the use in diesel engines of trucks, regular buses, etc. Has good antioxygenic and dispersive properties. Provides the cleanness of the engine components and prolongs the interval between oil changes (according to the producer's instructions).

Specifications:

SAE 20W-50, API CH-4/SL, ACEA E3/A3/B3/B4, MB 228.3/229.1, MAN M 3275, VOLVO VDS-2, MTU DDC Type 2.

Volume:	Art.-Nr.:
7L	PM0702-7
10L	PM0702-10
20L	PM0702-20
60L	PM0702-60
208L	PM0702-DR
1000L	PM0702-IBC



DIESEL G-4 SHPD

Pemco DIESEL G-4 SHPD is a special high quality Super High Performance Diesel engine oil with mineral basis for heavily loaded trucks' and regular buses' diesels. Provides safe engine combustion at extreme loads and perfect protection from the components wear-out and corrosion. Thanks to special additives has low congealation temperature and provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanness and safe lubrication of the engine components.

Specifications:

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

Volume:	Art.-Nr.:
5L	PM0704-5
10L	PM0704-10
20L	PM0704-20
60L	PM0704-60
208L	PM0704-DR
1000L	PM0704-IBC



DIESEL G-5 UHPD

Pemco DIESEL G-5 UHPD is a semi-synthetic Ultra High Performance Diesel engine oils that satisfies the strictest standards of the lorries producers. Synthetic components provide high performance properties. Has optimal low-temperature characteristics. Provides stable viscosity at wide-ranging temperatures. Safely protects the engine components from wear-out and tearing either at cold cranking or at high temperatures. Provides efficient engine combustion.

Specifications:

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

Volume:	Art.-Nr.:
1L	PM0705-1
5L	PM0705-5
10L	PM0705-10
20L	PM0705-20
60L	PM0705-60
208L	PM0705-DR
1000L	PM0705-IBC



DIESEL G-6 UHPD Eco

Pemco DIESEL G-6 UHPD Eco is a synthetically-based Ultra High Performance Diesel engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components.

Specifications:

SAE 10W-40, ACEA E4/E7, API CI-4/SL, MB-Approval 228.5, VOLVO VDS-3, MAN M 3277/M 3377, RENAULT RXD/RLD-2, MTU DDC Type 3, DEUTZ DQC IV-10, MACK EO-N/EO-M Plus, CUMMINS CES 20078, GLOBAL DHD-1, DETROIT DIESEL PGOS 93K215.

Volume:	Art.-Nr.:
10L	PM0706-10
20L	PM0706-20
60L	PM0706-60
208L	PM0706-DR
1000L	PM0706-IBC

OILS AND ADDITIVES FOR TRUCKS AND BUSES



DIESEL G-7 UHPD Blue

Pemco DIESEL G-7 UHPD Blue is a synthetically-based Ultra High Performance Diesel engine oil that satisfies the strictest standards of the truck producers. Unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components.

Specifications:

SAE 10W-40, ACEA E9/E7/E6/E4, API CJ-4, MB-Approval 228.51, MAN M 3477/M 3271-1, VOLVO VDS-4, RENAULT RLD-2/RLD-3, CATERPILLAR ECF-1-a, CUMMINS CES 20076/77, DEUTZ DQC III-10 LA/IV-10 LA, MACK EO-O Prem. Plus, MTU DDC Type 3.1.

Volume:	Art.-Nr.:
10L	PM0707-10
20L	PM0707-20
60L	PM0707-60
208L	PM0707-DR
1000L	PM0707-IBC



DIESEL G-8 UHPD

Pemco DIESEL G-8 UHPD is a fully synthetic Ultra High Performance Diesel engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's ins instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components and ageing resistance.

Specifications:

SAE 5W-30, ACEA E4/E7, MB-Approval 228.5, DEUTZ DQC IV-10, MTU DDC Type 3.

Volume:	Art.-Nr.:
10L	PM0708-10
20L	PM0708-20
60L	PM0708-60
208L	PM0708-DR
1000L	PM0708-IBC



DIESEL G-9 UHPD Nano

Pemco DIESEL G-9 UHPD Nano is a semi-synthetic Ultra High Performance Diesel engine oil with remarkable tribological properties. Uses the excellent properties of specially selected nano additives to minimize the friction on the working of metal surfaces by the coating and bearing effect. DIESEL G-9 was designed to reduce fuel consumption and increase the life of motors on the reduction of friction. Intended for truck fleet operators, seeking the best available lubricating oil technology, in order to meet the increasingly stringent emission limits that are imposed on diesel engines in Europe.

Specifications:

SAE 10W-40, API CI-4/SL, ACEA E7, VOLVO VDS-3, MAN M 3275, MB 228.3, MTU DDC Type 2, MACK EO-N/EO-M Plus, RENAULT RLD-2, GLOBAL DHD-1, CUMMINS CES 20076/77/78, CATERPILLAR ECF-2, DEUTZ DQC III-10.

Volume:	Art.-Nr.:
10L	PM0709-10
20L	PM0709-20
60L	PM0709-60
208L	PM0709-DR
1000L	PM0709-IBC



DIESEL G-10 UHPD

Pemco DIESEL G-10 UHPD is a fully synthetic Ultra High Performance Diesel engine oil that satisfies the strictest standards of the truck producers. Its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components and ageing resistance. Provides efficient engine combustion.

Specifications:

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

Volume:	Art.-Nr.:
10L	PM0710-10
20L	PM0710-20
60L	PM0710-60
208L	PM0710-DR
1000L	PM0710-IBC



DIESEL G-11 GEO

Pemco DIESEL G-11 GEO is engine oil specifically formulated for gas engines and has high performance properties. Designed to meet the requirements of today's modern four stroke engines, formulated to provide reliable protection for trucks and buses which runs on compressed (CNG), liquefied (LNG) natural gas or liquefied petroleum gas (LPG). It uses high quality base oils and an advanced additive system with low sulphated ash, which deliver exceptional thermal, oxidation stability and nitration resistance. DIESEL G-11 is balanced to provide perfect anti-wear protection characteristics to protect valve train components, pistons, cylinder liners and bearings. Low levels of Zinc and Phosphorous helps to improve and extend catalytic converter service life.

Specifications:

SAE 15W-40, CUMMINS CES 20074, DETROIT DIESEL PGOS 93K216.

Volume:	Art.-Nr.:
10L	PM0711-10
20L	PM0711-20
60L	PM0711-60
208L	PM0711-DR
1000L	PM0711-IBC



DIESEL G-12 SHPD

Pemco DIESEL G-12 SHPD is a high Super High Performance Diesel engine oil designed for optimum lubrication under heavy operating conditions. The high-quality additive package reduces soot entry and acid-related seal aging due to low diesel quality. Protects against oil thickening, high temperature deposits, sludge formation, oil degradation and corrosion. Excellent low temperature fluidity and high temperature viscosity allows the use in most diesel applications.

Specifications:

SAE 10W-30, API CG-4/CF-4/CF/SL, MB 228.3/229.1, MTU DDC Type 2, MACK EO-L, VOLVO VDS-2, MAN M 3275.

Volume:	Art.-Nr.:
10L	PM0712-10
20L	PM0712-20
60L	PM0712-60
208L	PM0712-DR
1000L	PM0712-IBC

OILS AND ADDITIVES FOR TRUCKS AND BUSES



DIESEL G-13 UHPD

Pemco DIESEL G-13 UHPD is a semi-synthetic Ultra High Performance Diesel engine oil for heavy duty diesel engines of commercial vehicles that helps to reduce fuel consumption. The well-balanced additive package effectively reduces wear and tear at any engine operation mode. Excellent detergent and dispersive properties ensure perfect cleanliness of the engine separate parts.

Specifications:

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

Volume:	Art.-Nr.:
10L	PM0713-10
20L	PM0713-20
60L	PM0713-60
208L	PM0713-DR
1000L	PM0713-IBC



DIESEL G-14 UHPD

Pemco DIESEL G-14 UHPD is a semi-synthetic Ultra High Performance Diesel engine oil designed for use in utility vehicles. It distinguishes itself by extended oil change intervals, a continuous anti-wear protection, less emissions as well as less deposits. Thanks to the unique additive technology this low SAPS oil complies with the specifications ACEA E9, API CJ-4, Mercedes-Benz 228.31 and Volvo VDS-4.

Specifications:

SAE 15W-40, API CJ-4/SN, ACEA E7/E9, JASO DH-2, MB 228.31, MAN M 3575, VOLVO VDS-4, MACK EO-O Prem. Plus, RENAULT RLD-3, CUMMINS CES 20081, DETROIT DIESEL PGOS 93K218, CATERPILLAR ECF-3, DEUTZ DQC III-10 LA, MTU DDC Type 2.1, SCANIA Low Ash.

Volume:	Art.-Nr.:
10L	PM0714-10
20L	PM0714-20
60L	PM0714-60
208L	PM0714-DR
1000L	PM0714-IBC



DIESEL G-15 SHPD

Pemco DIESEL G-15 SHPD is a special high-quality Super High Performance Diesel engine oil on a mineral basis for heavily loaded diesels of lorries and regular buses. Provides safe engine combustion at extreme loads and perfect protection from wearout and corrosion. Thanks to special additives it has a low conglomeration temperature and provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanliness and safe lubrication of the engine components.

Specifications:

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

Volume:	Art.-Nr.:
10L	PM0715-10
20L	PM0715-20
60L	PM0715-60
208L	PM0715-DR
1000L	PM0715-IBC



DIESEL G-16 SHPD

Pemco DIESEL G-16 SHPD is a Super High Performance Diesel engine oil, designed for optimum lubrication under heavy operating conditions. The high-quality additive package reduces soot entry and acid-related seal aging due to low diesel quality. Protects against oil thickening, high temperature deposits, sludge formation, oil degradation and corrosion. Excellent low temperature fluidity and high temperature viscosity allow the use in most diesel applications.

Specifications:

SAE 10W-30, API CI-4/SL, ACEA E7, VOLVO VDS-3, MAN M 3275, MB 228.3, MTU DDC Type 2, MACK EO-N/EO-M Plus, RENAULT RLD-2, GLOBAL DHD-1, CUMMINS CES 20076/77/78, CATERPILLAR ECF-2, DEUTZ DQC-III-10.

Volume:	Art.-Nr.:
10L	PM0716-10
20L	PM0716-20
60L	PM0716-60
208L	PM0716-DR
1000L	PM0716-IBC



DIESEL G-17 UHPD Blue

Pemco DIESEL G-17 UHPD Blue is a fully synthetic Ultra High Performance Diesel engine oil, developed for highly loaded diesel engines with turbochargers which are operated under hard conditions, which comply with the standards Euro III, IV, V and Euro V and which are equipped with diesel particle filters (DPF), three-way catalytic converters (SCR) as well as special afterburning systems (EGR). Recommended for use in European, American and Japanese diesel engines of the latest generation which run on lowsulphur fuel. Has high detergent and dispersive properties providing perfect cleanliness of the engine components and minimal wear out of the cylinder walls. The low SAPS additive package with its low content of sulphur, sulphur ash and phosphorus protect systems for reducing exhaust toxicity and prolongs their service life.

Specifications:

SAE 5W-30, ACEA E6/E7, MB-Approval 228.51, MAN M 3677, SCANIA Low Ash.

Volume:	Art.-Nr.:
10L	PM0717-10
20L	PM0717-20
60L	PM0717-60
208L	PM0717-DR
1000L	PM0717-IBC



DIESEL G-18 SHPD

Pemco G-18 SHPD is a synthetic Super High Performance Diesel engine oil for use in heavily loaded trucks. It meets the drain requirements of the leading truck manufacturers and contains a special additive package that ensures excellent piston cleanliness and effective wear protection. Applicable in engines with or without diesel particulate filter (DPF) and in most engines with exhaust gas recirculation (EGR) and selective catalytic reduction (SCR) systems. Suitable for Euro I, II, III, IV, V, VI* engines.

*Euro VI oil recommendations differ per truck brand. Please check owner's manual before use.

Specifications:

SAE 15W-40, API CK-4/SN, ACEA E9/E7, MB 228.31, MAN M 3275/M 3575, VOLVO VDS-4.5, RENAULT RLD-4, FORD WSS-M2C171-F1, MACK EOS-4.5, MTU DDC Type 2.1, CATERPILLAR ECF-3, CUMMINS CES 20086, DEUTZ DQC III-10LA, DETROIT DIESEL DFS 93K222.

Volume:	Art.-Nr.:
20L	PM0718-20
60L	PM0718-60
208L	PM0718-DR
1000L	PM0718-IBC

OILS AND ADDITIVES FOR TRUCKS AND BUSES



AdBlue®

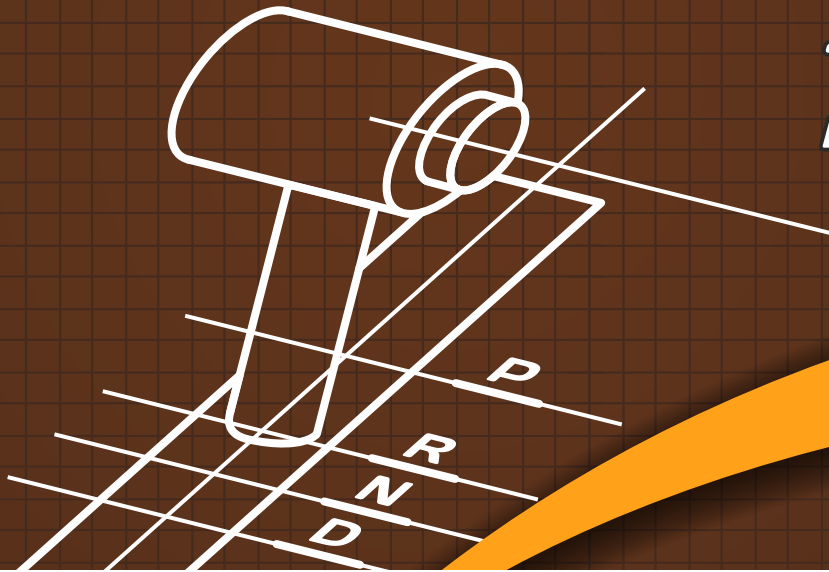
AdBlue® is a high-purity 32,5 % w/w urea solution which is used as additional working fluid in diesel cars and trucks equipped with SCR technology (Selective Catalytic Reduction). The composition of AdBlue® is specified in DIN 70070. The use of such systems optimises engine performance, reduces the emission of harmful particles in the exhaust gases and complies with the environmental standards Euro IV and Euro V. AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA Verband der Automobilindustrie e.V.).

Specifications:

ISO 22241-1/-2/-3, DIN 70070.

Volume:	Art.-Nr.:
10L	PM3001-10
20L	PM3001-20
1000L	PM3001-IBC

TRANSMISSION FLUIDS AND GEAR OILS



PEMCO®



iMATIC 465

Pemco iMATIC 465 fluid for 6-speed automatic transmissions of passenger cars from BMW, Mercedes-Benz, GM, Chevrolet, Opel, Land Rover, Jaguar, where the use of the GM Dexron® VI norm or an earlier Dexron generation is provided.

Specifications:

GM Dexron® VI, FORD/MOTORCRAFT® Mercon® LV, TOYOTA Type WS, HYUNDAI SP-IV, NISSAN Matic S, ALLISON C4, CHRYSLER ATF +4, MB 236.14, SHELL M-1375.4, JASO 1A.

Volume:	Art.-Nr.:
1L	PM0465-1
10L	PM0465-10
20L	PM0465-20
60L	PM0465-60
208L	PM0465-DR
1000L	PM0465-IBC



iMATIC 460

Pemco iMATIC 460 is a synthetic-based transmission fluid for steel-belt variable transmissions (CVT). Special additives reduce the friction energy, ensure heat removal from rubbing surfaces thus preventing them from wear-out. It provides a smooth as well as noiseless operation of variable transmissions and has high thermal stability.

Specifications:

MB 236.20, TOYOTA TC, DAIHATSU TC, NISSAN NS-2, SUBARU NS-2, DODGE NS-2, SUZUKI TC/NS-2, HYUNDAI/KIA SP-III, MITSUBISHI CVTF-J1/SP-III, FORD CVT 23, VW/AUDI TL 52 180, G 052 180 A1/A2/A6.

Volume:	Art.-Nr.:
1L	PM0460-1
5L	PM0460-5
20L	PM0460-20
60L	PM0460-60
208L	PM0460-DR
1000L	PM0460-IBC

TRANSMISSION FLUIDS AND GEAR OILS



iMATIC 455

Pemco iMATIC 455 is a multifunctional ATF for use in modern 6-speed automatic transmissions in cars and commercial vehicles. Meets the requirements of the most common specifications of European car manufacturers. Provides an excellent low temperature switching behaviour, a stable high friction level and best wear protective properties for a reliable operation and a long life.

Specifications:

BMW 832 20 142 516 (1375.4)/832 20 144 137, HYUNDAI 040000C90SG, FORD/MOTORCRAFT® Mercon® SP, JAGUAR C2C 8432, LAND ROVER TYK500050, VW G 055 005 A1/A2/A6, ZF S671 090 -252/-253/-255.

Volume:	Art.-Nr.:
1L	PM0455-1
10L	PM0455-10
20L	PM0455-20
60L	PM0455-60
208L	PM0455-DR
1000L	PM0455-IBC



iMATIC 453

Pemco iMATIC 453 is a synthetic transmission fluid for automated transmissions with double clutch from VW/Audi (DSG/S-tronic), BMW (DKG-GETRAG), Ford (Powershift), Peugeot/Citroën (DCSG), Volvo, ZF. Guarantees good lubricating properties even at extremely temperatures in summer and low winter temperatures. Allows virtually slip-free operation and thus minimal torque losses. Ensures low wear and long life of the transmission.

Specifications:

VW/AUDI G 052 182/G 052 529, PSA 9734.S2, FORD WSS-M2C936, MB 236.21 (001 989 85 03), VOLVO 1161838/1161839, PORSCHE 999.917.080.00, BMW 832 22 148 578/832 22 148 579/832 20 440 214/832 22 147 477, MITSUBISHI MZ 320065.

Volume:	Art.-Nr.:
1L	PM0453-1
10L	PM0453-10
20L	PM0453-20
60L	PM0453-60
208L	PM0453-DR
1000L	PM0453-IBC



iMATIC 452

Pemco iMATIC 452 is a specially partly synthetic fluid of high quality, which secure long and reliable functioning of new generation automatic gearbox under difficult operating conditions. This fluid assigned for automatic gearboxes of new generation and gear boxes like MULTITRONIC, STEPTRONIC and TIPTRONIC. The use of high refined basic oil, synthetic ingredients and additives of up-to-date technology provides unique performance.

Specifications:

VW TL 52 162, MB 236.11, JAGUAR JLM 202 38, BMW 832 29 407 807.

Volume:	Art.-Nr.:
1L	PM0452-1
10L	PM0452-10
20L	PM0452-20
60L	PM0452-60
208L	PM0452-DR
1000L	PM0452-IBC



iMATIC 450

Pemco iMATIC 450 is a special blend of high quality base stocks with newest advanced additives for automatic transmissions. Carefully balanced friction modifiers allow friction retention for long life performance. Enhanced oxidation, thermal stability and corrosion resistance helps maintain year-round protection of the transmission components.

Specifications:

AISIN WARNER JWS 3309, JASO M315 Type 1A, TOYOTA ATF Type T/T-II/T-III/T-IV, JATCO ATF, NISSAN/INFINITI Matic FLUID C/D/J, MITSUBISHI DIAMOND SP-II/SP-III, MAZDA ATF D-III/M-3, DAIHATSU ALUMIX ATF MULTI, HONDA ATF Z-1 (not for CVT), SUZUKI ATF OIL/ATF Oil Special, HYUNDAI/KIA, DAEWOO, GM Dexron® III-H, FORD/MOTORCRAFT® Mercon® V.

Volume:	Art.-Nr.:
1L	PM0450-1
4L	PM0450-4Metal
20L	PM0450-20
60L	PM0450-60
208L	PM0450-DR
1000L	PM0450-IBC



iMATIC 430

Pemco iMATIC 430 is an oil manufactured with highly refined base oils and performance additives to satisfy automotive manufacturer's ATF specifications where GM Dexron® III F/G/H fluids are recommended. It can be used in automatic transmissions, torque converters, power steering and hydraulic circuits.

Specifications:

GM Dexron® III F/G/H, FORD/MOTORCRAFT® Mercon® V, FORD M2C138-CJ/M2C166-H, MB 236.1, ALLISON C-4/TES 389, ZF-TE-ML 09/11/14, VOITH G.607, PSF applications.

Volume:	Art.-Nr.:
1L	PM0430-1
10L	PM0430-10
20L	PM0430-20
60L	PM0430-60
208L	PM0430-DR
1000L	PM0430-IBC



iMATIC 420

Pemco iMATIC 420 is an oil manufactured with highly refined base oils and performance additives to satisfy automotive manufacturer's ATF specifications where GM Dexron® II D fluids are recommended. It can be used in automatic transmissions, torque converters, power steering and hydraulic circuits.

Specifications:

GM DEXRON® II-D, MB 236.5/236.7, RENK, MAN 339 V1/Z1, CATERPILLAR TO-2, ALLISON C4, VOITH G607, ZF TE-ML 03D/04D/11A/14A/17C.

Volume:	Art.-Nr.:
1L	PM0420-1
10L	PM0420-10
20L	PM0420-20
60L	PM0420-60
208L	PM0420-DR
1000L	PM0420-IBC

TRANSMISSION FLUIDS AND GEAR OILS



iMATIC 410

Pemco iMATIC 410 is a multipurpose multigrade oil with mineral basis for automatic transmissions, hydraulic steering systems and hydraulic clutch. Has high performance specifications. Provides long durability of transmission components.

Specifications:
GM Type A Suffix A.

Volume:	Art.-Nr.:
1L	PM0410-1
10L	PM0410-10
20L	PM0410-20
60L	PM0410-60
208L	PM0410-DR
1000L	PM0410-IBC



iPOID 595

Pemco iPOID 595 is a high-performance gear oil which is manufactured from carefully selected base oils and special additives. Meets the manufacturers recommendation for most manual transmissions, reducers and differentials where an API GL-5 gear oil is recommended. It's specially developed to provide an easy work of transmission under severe conditions.

Specifications:
SAE 75W-90, API GL-5 LS, MACK GO-J Plus, MAN 342, SCANIA STO 1:0.

Volume:	Art.-Nr.:
1L	PM0595-1
5L	PM0595-5
10L	PM0595-10
20L	PM0595-20
60L	PM0595-60
208L	PM0595-DR
1000L	PM0595-IBC



iPOID 589

Pemco iPOID 589 is a high-performance gear oil which is manufactured from carefully selected base oils and special additives. Meets the manufacturers recommendation for most manual transmissions, reducers and differentials where an API GL-5 gear oil is recommended. It's specially developed to provide an easy work of transmission under severe conditions.

Specifications:
SAE 80W-90, API GL-5 LS, API MT-1, FORD WSD-M2C200-C.

Volume:	Art.-Nr.:
1L	PM0589-1
5L	PM0589-5
20L	PM0589-20
60L	PM0589-60
208L	PM0589-DR
1000L	PM0589-IBC



iPOID 578

Pemco iPOID 578 is a synthetic oil for use in manual 5- and 6-speed transmissions, including also transmissions with integrated drive axles of front-drive vehicles, as well as for transfer gear-boxes and axle drives.

Specifications:

SAE 75W-80, API GL-4/GL-5, BMW MTF LT-1/2/-3/-4, MB 235.10, FORD WSS-M2C00-D2, TOYOTA JWS 227, PSA B 71 2330, PEUGEOT 9730A2/A8, NISSAN 999 MP-MTF20P KE91699932R, MITSUBISHI MZ312644 3005401, VW G009317/G052171/G52178/G052512/G052532/G052527/G052726/G052798/G055726.

Volume:	Art.-Nr.:
1L	PM0578-1
4L	PM0578-4
10L	PM0578-10
20L	PM0578-20
60L	PM0578-60
208L	PM0578-DR
1000L	PM0578-IBC



iPOID 575

Pemco iPOID 575 is a fully synthetic high-quality transmission oil for lubrication of all the differential gear types including those with higher friction where "Limited Slip Oil API GL-5" is used. Provides wear-out protection. Is specially designed for heavily loaded transmissions of sportsters and four-wheel drive vehicles.

Specifications:

SAE 75W-140, API GL-5 LS, MIL-L 2105 D.

Volume:	Art.-Nr.:
10L	PM0575-10
20L	PM0575-20
60L	PM0575-60
208L	PM0575-DR
1000L	PM0575-IBC



iPOID 548

Pemco iPOID 548 is a high-performance gear oil which is manufactured from carefully selected base oils and special additives. Universal use for the most types of manual transmissions where an API GL-4 gear oil is recommended. Reduces wear and minimizes running noise. Excellent anti-wear properties and outstanding resistance to ageing.

Specifications:

SAE 80W-90, API GL-4, SAE J2360, US STEEL 224.

Volume:	Art.-Nr.:
1L	PM0548-1
20L	PM0548-20
60L	PM0548-60
208L	PM0548-DR
1000L	PM0548-IBC



HYPROID LSD

Pemco HYPROID LSD is a high-quality transmission oil with mineral basis for mechanical transmission aggregates of trucks and passenger vehicles that provides safe functioning of self-locking gears with limited slip, main gears, reducing gears, driving axles and other loaded transmission control groups. Has perfect anti-tearing and antiwear-out properties. Improved thermal and oxidation stability provides perfect cleanness of the mechanisms and prolonged oil cycle life before change.

Specifications:

SAE 85W-140, API GL-5 LS, MIL-L-2105 D.

Volume:	Art.-Nr.:
20L	PM0540-20
60L	PM0540-60
208L	PM0540-DR
1000L	PM0540-IBC



COOLANT FLUIDS

PEMCO®



ANTIFREEZE 911

Pemco ANTIFREEZE 911 contains an ingenious inhibitor formulation that efficiently prevents corrosion, depositions and foam formation to guarantee increased service intervals, optimal heat dissipation and overheat protection of your radiator. It is an ethylene glycol based amine-free, nitrite-free, phosphate-free radiator antifreeze with outstanding properties and is therefore suitable for all aluminum, copper and cast iron radiators. Available as a ready-to-use fluid and concentrated fluid.

Ready-to-use	Volume:	Art.-Nr.:
	1L	PM0911-1
	5L	PM0911-5
	10L	PM0911-10
	20L	PM0911-20
	60L	PM0911-60
	208L	PM0911-DR
	1000L	PM0911-IBC

Concentrate	Volume:	Art.-Nr.:
	1L	PM0911C-1
	5L	PM0911C-5
	20L	PM0911C-20
	60L	PM0911C-60
	208L	PM0911C-DR
	1000L	PM0911C-DR

Specifications:

SAE J1034, ASTM D3306/D4340/D4985, NATO S759, VAG TL 774 C.



ANTIFREEZE 912+

Pemco ANTIFREEZE 912+ contains an ingenious inhibitor formulation that efficiently prevents corrosion, depositions and foam formation to guarantee increased service intervals, optimal heat dissipation and overheat protection of your radiator. It is an ethylene glycol based silicate-free, amine-free, nitrite-free, phosphate-free radiator antifreeze with outstanding properties and is therefore suitable for all aluminum, copper and cast iron radiators. Available as a ready-to-use fluid and concentrated fluid.

Ready-to-use	Volume:	Art.-Nr.:
	1L	PM0912-1
	5L	PM0912-5
	10L	PM0912-10
	20L	PM0912-20
	60L	PM0912-60
	208L	PM0912-DR
	1000L	PM0912-IBC

Concentrate	Volume:	Art.-Nr.:
	1L	PM0912C-1
	5L	PM0912C-5
	20L	PM0912C-20
	60L	PM0912C-60
	208L	PM0912C-DR
	1000L	PM0912C-IBC

Specifications:

SAE J1034, ASTM D3306/D4656/D4985, BS 6580: 1992, AFNOR NF R15-601, AS 2108, FFV Heft R443, CUNA NC 956-16, UNE 26361-88, NATO S 759, MB 325.3, GM 6277M, FORD WSS-M97B44-D, RENAULT 41-01-001, MAN 324 SNF, VAG TL 774 D&F, MAZDA, VOLVO.



ANTIFREEZE 913

Pemco ANTIFREEZE 913 contains an ingenious inhibitor formulation that efficiently prevents corrosion, depositions and foam formation to guarantee increased service intervals, optimal heat dissipation and overheat protection of your radiator. It is an ethylene glycol based amine-free, nitrite-free, phosphate-free radiator antifreeze with outstanding properties and is therefore suitable for all aluminum, copper and cast iron radiators. Available as a ready-to-use fluid and concentrated fluid.

Ready-to-use	Volume:	Art.-Nr.:	Concentrate	Volume:	Art.-Nr.:
	1L	PM0913-1		20L	PM0913C-20
5L	PM0913-5	60L	PM0913C-60		
10L	PM0913-10	208L	PM0913C-DR		
20L	PM0913-20	1000L	PM0913C-IBC		
60L	PM0913-60				
208L	PM0913-DR				
1000L	PM0913-IBC				

Specifications:

SAE J034, ASTM D3306/D4340/D4985, NATO S759, MAN 324, GM 1825M/1899M, GM SATURN, OPEL GM QL130100, FORD ESE M978B4H-A, FORD AF Plus, JOHN DEERE, RENAULT Type D, JAGUAR, DAF, SAAB, ROVER, BMW.



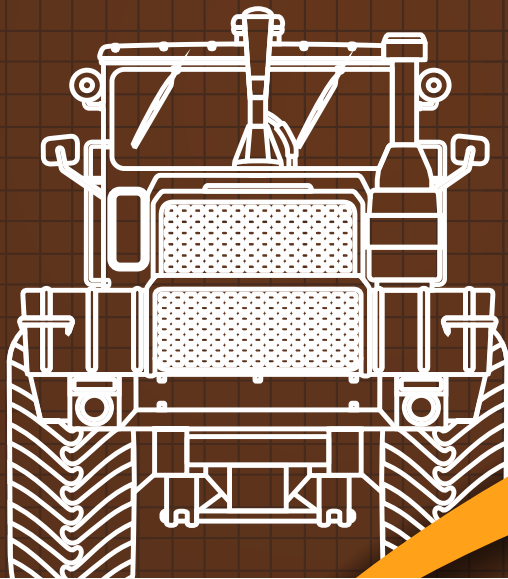
ANTIFREEZE 913+

Pemco ANTIFREEZE 913+ contains an ingenious inhibitor formulation that efficiently prevents corrosion, depositions and foam formation to guarantee increased service intervals, optimal heat dissipation and overheat protection of your radiator. It is an ethylene glycol based amine-free, nitrite-free, phosphate-free radiator antifreeze with outstanding properties and is therefore suitable for all aluminum, copper and cast iron radiators. Available as a ready-to-use fluid and concentrated fluid.

Ready-to-use	Volume:	Art.-Nr.:	Concentrate	Volume:	Art.-Nr.:
	1L	PM0914-1		20L	PM0914C-20
5L	PM0914-5	60L	PM0914C-60		
10L	PM0914-10	208L	PM0914C-DR		
20L	PM0914-20	1000L	PM0914C-IBC		
60L	PM0914-60				
208L	PM0914-DR				
1000L	PM0914-IBC				

Specifications:

SAE J1034, ASTM D3306/D4340/D4985, NATO S759, MB 325.3, GM 1825M/1899M, GM SATURN, OPEL GM QL130100, MAN 324, BMW, JAGUAR, SAAB, ROVER, RENAULT Type D, FORD ESE M978B4H-A, FORD AF Plus, JOHN DEERE, DAF.



OILS FOR AGRICULTURAL MACHINERY AND EQUIPMENT

PEMCO®



MULTIFARM STOU

Pemco MULTIFARM STOU 10W-30 and 10W-40 are a multi-purpose oil for agricultural and construction machinery, turbo-charged and uncharged. Oil can be used year-round for engines, transmissions with wet brakes and hydraulic systems.

Range: SAE 10W-30, 10W-40.

Specifications:

API CG-4/CF-4/CF/CE/CD/SF, ACEA E3, MB 227.1/228.1,
 UTTO Specs.: API GL-4 FORD M2C86B/C/M2C134D, JOHN DEERE J20C/J20D,
 J.I CASE/CASE INT MS-1204/6/7/9, CNH MAT 3525/3526, CATERPILLAR TO-2, ALLISON C-4,
 MASSEY FERGUSON M1135/1143/1145,
 STOU Specs.: ZF TE-ML 06A/06B (inc.06R)/06C/07B, FORD M2C159B/C, JOHN DEERE J27,
 FORD NEW HOLLAND 82009201/2/3, MASSEY FERGUSON M1145/1139/1144,
 Hydraulic Specs.: SPERRY VISKERS/EATON M2950S/I-280-S,
 SAUER SUNSDTRAND/DANFOSS, HYDROSTATIC TRANS FLUID, Suitable for Wet Brakes.

SAE	Volume:	Art.-Nr.:
10W-30	10L	PM2501-10
	20L	PM2501-20
	60L	PM2501-60
208L		PM2501-DR
	1000L	PM2501-IBC

SAE	Volume:	Art.-Nr.:
10W-40	10L	PM2502-10
	20L	PM2502-20
	60L	PM2502-60
208L		PM2502-DR
	1000L	PM2502-IBC



MULTI UTTO WB 101

Pemco MULTI UTTO WB 101 is extra high performance multipurpose tractor lubricant engineered to meet transmission and hydraulic fluid requirements. Optimises the performance of agricultural and commercial tractors operating in a wide range of environments and conditions. Combines select base oils and an advanced additive package to deliver the varied lubricant performance properties required in severe duty applications of agricultural and construction equipment drive trains. It is particularly well suited for reducing wet brake and Power Take-Off chatter. Delivers exceptional performance in today's power train transmissions, drive axles, clutches, PTOs and hydraulic systems.

Specifications:

API GL-4, VOLVO VCE WB 101, FORD M2C134-A/B/C/D/M2C86-B/C,
 MASSEY-FERGUSON M1135/M1141/M1143/M1145, CNH MAT 3525/3526, JOHN DEERE J20C,
 J.I. CASE MAT 3505 (MS-1209)/MS-1206/MS-1207/MS-1210, CATERPILLAR TO-2,
 NEW HOLLAND FNHA-2-C-200/FNHA-2-C-201, ZF TE-ML 03E/03F/05F/06K, ALLISON C-4.

Volume:	Art.-Nr.:
10L	PM2701-10
20L	PM2701-20
60L	PM2701-60
208L	PM2701-DR
1000L	PM2701-IBC



KETTENOEL

Pemco KETTENOEL is highly refined oil on a mineral base, designed for lubrication of the cutting chain saws. The oil has high adhesion properties, which ensures good adhesion of oil to the chain during operation. High anti-wear and lubricity characteristics extend the life of the chain. Greasing of the chain can be made both directly by immersing it in a container with the oil, and by an automatic oil supply. Ensures reliable lubrication up to -15°C. Designed for the lubrication of chains of both petrol and electric saws.

Specifications:
ISO 100

Volume:	Art.-Nr.:
10L	PM1101-10
20L	PM1101-20
60L	PM1101-60
208L	PM1101-DR
1000L	PM1101-IBC

INDUSTRIAL OILS AND FLUIDS



PEMCO®

M.O. Series

Pemco M.O. series consists of premium quality single-grade engine oils for use in engine crankcases of passenger cars, trucks, tractors, buses, inboard marine and other equipment according to the engine manufacturer's recommendations.

Range: SAE 10W, SAE 20W, SAE 30, SAE 40.

Specifications:

API CD/SD, CATERPILLAR SERIES 3, MACK EO-J, DAVID BROWN DB OM 616, MIL-L 2104 C, VOLVO B20.

SAE	Volume:	Art.-Nr.:	SAE	Volume:	Art.-Nr.:
10W	10L	PM3101-10	20W	10L	PM3102-10
	20L	PM3101-20		20L	PM3102-20
	208L	PM3101-DR		208L	PM3102-DR
	1000L	PM3101-IBC		1000L	PM3102-IBC

SAE	Volume:	Art.-Nr.:	SAE	Volume:	Art.-Nr.:
30	10L	PM3103-10	40	10L	PM3104-10
	20L	PM3103-20		20L	PM3104-20
	208L	PM3103-DR		208L	PM3104-DR
	1000L	PM3103-IBC		1000L	PM3104-IBC

GEAR OIL ISO 220

Pemco GEAR OIL ISO 220 is an industrial gear oil that provides excellent protection and oil life in extreme conditions. It offers exceptional oxidation resistance and thermal properties, a high viscosity index (VI) and low-temperature fluidity. GEAR OIL ISO 220 is recommended for enclosed industrial gear drives including steel-on-steel spur, helical and bevel gears.

Specifications:

ISO 220, AGMA 252.04, ISO 12925-1 CKC/CKD, ISO 6743-6 CKC/CKD, US STEEL 224, DIN 51 517 p. 3 CLP.

Volume:	Art.-Nr.:
10L	PM2801-10
20L	PM2801-20
60L	PM2801-60
208L	PM2801-DR
1000L	PM2801-IBC

INDUSTRIAL OILS AND FLUIDS

TO-4 POWERTRAIN OIL

Pemco TO-4 POWERTRAIN OIL series consists of special gear oils for use in transmission, final drives, hydraulic, brake and other oil-cooled systems in construction, mining and off-road vehicles (tractors, loaders, bulldozers, excavators). Provides a longer life of the clutch discs. Meets the Cat TO-4 requirements for lubricants TDTO (Transmission/Drive Train Oil) from Caterpillar. It is not recommended to mix the oil with other hydraulic and engine oils.

Range: SAE 10W, SAE 30, SAE 50.

Specifications:

CATERPILLAR TO-4, KOMATSU KES 07.868.1, ALLISON C4 (off-road).

SAE 10W	Volume:	Art.-Nr.:	SAE 30	Volume:	Art.-Nr.:
	20L	PM2601-20		20L	PM2602-20
	60L	PM2601-60		60L	PM2602-60
	208L	PM2601-DR		208L	PM2602-DR
	1000L	PM2601-IBC		1000L	PM2602-IBC

SAE 50	Volume:	Art.-Nr.:
	20L	PM2603-20
	60L	PM2603-60
	208L	PM2603-DR
	1000L	PM2603-IBC

HYDRO

Pemco HYDRO series consists of mineral oils which are specially designed for usage in hydraulic equipment to meet the requirements for operating under heavy loads, pressure, temperature or velocity. Recommended for hydraulic systems of the following types: VICKERS, GEROTOR, GRESEN, HPM, DENISON, CESSNA, HYDRECO, WORTHINGTON etc. Applicable also for the lubrication of industrial equipment, transmissions, pneumatic systems etc. Contains anti wear, antioxidant, anti-corrosion and anti-foam additives.

Range: ISO 32, ISO 46, ISO 68, ISO 100, ISO 150.

Specifications:

DIN 51 424 p. 2, AFNOR NF E 48-603, US STEEL 126/127, ISO 20763 (Conestoga), SPERRY VICKERS I-286-S, DENISON HF-0/HF-1/HF-2, DENISON FILTERABILITY TP 02100, CINCINNATI Machine P-68/P-69/P-70.

ISO 32	Volume:	Art.-Nr.:
	10L	PM2101-10
	20L	PM2101-20
	60L	PM2101-60
	208L	PM2101-DR
	1000L	PM2101-IBC

ISO 46	Volume:	Art.-Nr.:
	10L	PM2102-10
	20L	PM2102-20
	60L	PM2102-60
	208L	PM2102-DR
	1000L	PM2102-IBC

ISO 68	Volume:	Art.-Nr.:
	10L	PM2103-10
	20L	PM2103-20
	60L	PM2103-60
	208L	PM2103-DR
	1000L	PM2103-IBC

ISO 100	Volume:	Art.-Nr.:
	10L	PM2104-10
	20L	PM2104-20
	60L	PM2104-60
	208L	PM2104-DR
	1000L	PM2104-IBC

ISO 150	Volume:	Art.-Nr.:
	10L	PM2105-10
	20L	PM2105-20
	60L	PM2105-60
	208L	PM2105-DR
	1000L	PM2105-IBC

HYDRO HV

Pemco HYDRO HV series consists of high performance hydraulic oils blended in combination with hydrocracked base oils to meet the requirements of the most demanding hydraulic systems. Pemco HYDRO HV have been specifically developed to reduce maintenance costs to a minimum and increase productivity by keeping hydraulic systems running efficiently.

Range: ISO 32, ISO 46, ISO 68.

Specifications:

DIN 51 524 p. 2 (HM), DIN 51 524 p. 3 (HV), PARKER (formerly DENISON) HF-0/HF-1/HF-2, EATON M-2950-S and I-286-S3, MAG P68/P69/P70, ISO 11158, ASTM D6158, SAE MS 1004, BOSCH REXROTH RE 90220, JCMAS P041 HK Hydraulic Specification, ANSI/AGMA 9005-E02-RO, GM LS-2, AIST 126/127, SEB 181222.

ISO 32	Volume:	Art.-Nr.:
	10L	PM2201-10
	20L	PM2201-20
	60L	PM2201-60
	208L	PM2201-DR
	1000L	PM2201-IBC

ISO 46	Volume:	Art.-Nr.:
	10L	PM2202-10
	20L	PM2202-20
	60L	PM2202-60
	208L	PM2202-DR
	1000L	PM2202-IBC

ISO 68	Volume:	Art.-Nr.:
	10L	PM2203-10
	20L	PM2203-20
	60L	PM2203-60
	208L	PM2203-DR
	1000L	PM2203-IBC

COMPRESSOR OIL

Pemco COMPRESSOR OIL series special mineral oils on the highly purified basic, designed for lubrication of pneumatic tools, reciprocating and rotary compressors. Ashless additive package prevents the formation of high-temperature deposits. Has excellent anti-corrosion, anti-wear and extreme pressure characteristics. Provides a stable and uninterrupted operation of equipment during the entire lifespan.

Range: ISO 46, ISO 100, ISO 150, ISO 220.

Specifications:

BB HTGD 90117, DP 6521 (DAA, DAB, DAH, DAG), DIN 51 506 (VBL, VCL, VDL), VDMA 24568, TLV 9013, CINCINNATI P38/P55/P54/P62, DIN 51 515 p.1, DIN 51 515 p. 2, DIN 51 517 p. 2, BS 489, GE GEK 32568 A/C, CEGB 207001, MITSUBISHI Heavy Industries E00-87182, MIL-L-17672 D, US STEEL 120, DIN 51 524 p. 1/p. 2, DENISON HFO, AFNOR NF E 48-603.

ISO 46	Volume:	Art.-Nr.:	ISO 100	Volume:	Art.-Nr.:
	10L	PM2901-10		10L	PM2902-10
	20L	PM2901-20		20L	PM2902-20
	60L	PM2901-60		60L	PM2902-60
	208L	PM2901-DR		208L	PM2902-DR
	1000L	PM2901-IBC		1000L	PM2902-IBC

ISO 150	Volume:	Art.-Nr.:	ISO 220	Volume:	Art.-Nr.:
	10L	PM2903-10		10L	PM2904-10
	20L	PM2903-20		20L	PM2904-20
	60L	PM2903-60		60L	PM2904-60
	208L	PM2903-DR		208L	PM2904-DR
	1000L	PM2903-IBC		1000L	PM2904-IBC

TURBINE

Pemco TURBINE series consists of premium quality oils designed to provide excellent lubrication of precision turbines and many other industrial applications. These oils are made from base oils which have been carefully selected to provide satisfactory viscosity and temperature characteristics, low foaming tendencies as well as good water separation properties. In addition, they contain proven additives to protect equipment against rusting and to resist oxidation during a long service life.

Range: ISO 32, ISO 46, ISO 68.

Specifications:

DIN 51 515 p.1/p. 2, TLV 9013, BS 489, GE GEK 32568 A/C, MIL-L-17672D, CEGB 207001, BB HTGD 90117, DIN 51 524 p. 1, US STEEL 120.

ISO 32	Volume:	Art.-Nr.:	ISO 46	Volume:	Art.-Nr.:
	10L	PM2301-10		10L	PM2302-10
	20L	PM2301-20		20L	PM2302-20
	60L	PM2301-60		60L	PM2302-60
	208L	PM2301-DR		208L	PM2302-DR
	1000L	PM2301-IBC		1000L	PM2302-IBC

ISO 68	Volume:	Art.-Nr.:
	10L	PM2303-10
	20L	PM2303-20
	60L	PM2303-60
	208L	PM2303-DR
	1000L	PM2303-IBC

MARINE 09-series

Pemco MARINE series consists of high performance diesel engine oils 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. 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.

Range: MARINE 0930 - SAE 30, MARINE 0940 - SAE 40, MARINE 0950 - SAE 50.

Specifications:

API CF, TBN 9.

Marine 0930	Volume:	Art.-Nr.:	Marine 0940	Volume:	Art.-Nr.:
	20L	PM2401-20		20L	PM2402-20
	60L	PM2401-60		60L	PM2402-60
	208L	PM2401-DR		208L	PM2402-DR
	1000L	PM2401-IBC		1000L	PM2402-IBC

Marine 0950	Volume:	Art.-Nr.:
	20L	PM2403-20
	60L	PM2403-60
	208L	PM2403-DR
	1000L	PM2403-IBC

MARINE 12-series

Pemco MARINE series consists of 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. 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.

Range: MARINE 1230 - SAE 30, MARINE 1240 - SAE 40.

Specifications:

API CF, TBN 12.

Marine 1230	Volume:	Art.-Nr.:
	20L	PM2404-20
	60L	PM2404-60
	208L	PM2404-DR
1000L	PM2404-IBC	

Marine 1240	Volume:	Art.-Nr.:
	20L	PM2405-20
	60L	PM2405-60
	208L	PM2405-DR
1000L	PM2405-IBC	

MARINE 3040

Pemco MARINE 3040 is premium extra high-performance engine oil designed for use in the most severe residual-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection. MARINE 3040 have industry-leading thermal and oxidation stability. They have excellent TBN retention and resistance to viscosity increases over long operating periods.

Specifications:

SAE 40, API CF, TBN 30, 8 24 TS WARTSILA VASA, PERKINS, 9ZL 40/48 WARTSILA-ZULSER.

Volume:	Art.-Nr.:
20L	PM2406-20
60L	PM2406-60
208L	PM2406-DR
1000L	PM2406-IBC

MARINE X70

Pemco MARINE X70 is a 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.

Specifications:

SAE 50, API CF, TBN 70.

Volume:	Art.-Nr.:
20L	PM2407-20
60L	PM2407-60
208L	PM2407-DR
1000L	PM2407-IBC



FLUSHOIL

Pemco FLUSHOIL is a low viscosity mineral oil with good flushing and cleaning properties. It is used for flushing the oil sump and lubrication systems of internal combustion engines. It can also be used for flushing transmissions and gear boxes, to remove dirt, deposits and wear particles.

Specifications:
SAE 10.

Volume:	Art.-Nr.:
4L	PM0990-4
20L	PM0990-20
60L	PM0990-60
208L	PM0990-DR
1000L	PM0990-IBC

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 0WXX 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 not 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 wear 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 multigrade 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.

The currently valid performance categories:

•API SN, SM, SL, SJ

•API CK-4, CJ-4, CI-4+, CI-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 and 10W-50 motor oils to meet stringent requirements for phosphorus content, low temperature operation, high temperature deposits and 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).

•ILSAC 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.

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 SYNTHESIS 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 higher 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. For the most part these days, the fully synthetic base oils are replaced by modern synthetic technology base oils for the engine/lubricant development. Typical viscosity categories: SAE 0W-XX, 5W-XX.



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