



LUBRICANTS.
TECHNOLOGY.
PEOPLE.



ON HIGHWAY TRANSPORT LUBRICANTS

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FUCHS PETROLUB is a global Group based in Germany which produces and distributes lubricants and related specialities around the world. The Group, with its headquarters in Mannheim, ranks number one among the world's independent lubricant providers.

The wholly owned Australian subsidiary has been supplying specialised lubricants since the late 1890's and is the leading market player in many lubricant sectors. Manufacturing facilities are located in Melbourne, Perth and Newcastle, all with ISO9001 certification and individual distribution, R & D and quality control capabilities.

In addition, Fuchs' extensive range of specialist lubricant services is supported by 12 qualified laboratory technicians providing a vast array of fluid analyses including the highly specialised condition monitoring tool known as CENT.

The Fuchs Group is at the leading edge in formulation and application technology of all types of rapidly biodegradable lubricants and functional fluids, leading the development of the PLANTO product range and a continued commitment to the environment through the Fuchs Environmental Policy.

There is no better testament to this commitment than Fuchs' Melbourne operation being awarded ISO14001 Environmental Certification.

Fuchs Lubricants specialises in five main areas of lubrication:

- Automotive
- Industrial
- Specialist Applications including Open Gearing Lubrication
- Mining
- Private Label

Fuchs Lubricants provides an unrivalled personalised focus to its customer-base with 12 distribution sites throughout Australia and New Zealand and over 95% of products manufactured locally.

Through the dedication to maintain market leadership, Fuchs' products and services are constantly evaluated and updated to meet the ever-increasing demands of industry. This ongoing process ensures that Fuchs Lubricants will consistently exceed all future requirements.



Protect your machinery for a long and reliable life

The leading OEM supplier in Germany.

Nobody understands engines, gearboxes and hydraulic lubrication better than FUCHS. As the world's largest independent manufacturer of lubricants, FUCHS' technical resources concentrate exclusively on lubricants.

That means FUCHS know and understand the technical demands and can always offer the best possible product no matter what the lubrication requirement.

All the lubricants for on highway fleets.

Whether it is grease for vehicle and machinery bearings, hydraulic oils for any application or engine and gear oils for vehicles and machines - FUCHS has the perfect lubricant for the job.

And because FUCHS has everything from just one source, you benefit from the flexibility of rationalisation of oil grades for your entire vehicle and machinery fleet. That means lower operating costs and increased reliability.

Not all lubricants are created equal. Along with ultimate reliability at all temperatures, FUCHS' high performance lubricants also offer a noticeable reduction in fuel consumption and extended oil change intervals.

More efficient gearboxes and engines result in lower operating costs, thanks to decreased down time and lower fuel consumption.

The operational reliability of your machinery and the protection of your investment is FUCHS' highest priority.



Engine Oils

TITAN CARGO MAXX SAE 10W-40

Contains new additive technology and carefully selected synthetic base oils to provide full performance retention for the long term.

Provides further protection to exhaust after treatment systems, shielding against clogging and contamination. Developed for the latest generation of heavy duty European diesel engines in commercial vehicles.

SPECIFICATIONS ACEA E9/E7/E6 API C1-4 CATERPILLAR ECF-1-a JASO DH-2	APPROVALS DEUTZ DOC M10 LA MACK EO-M PLUS / EO-N MAN M 3271+1M 3477 MB Approval 235.28/228.51 MTU DDC TYPE 3.1 RENAULT RXD / RGD / RLD-2 SCANIA LA VOITH-RETARDER 'B' VOLVO VD-3 / CNG	RECOMMENDATIONS CUMMINS CES 20077 DAF MAN M 3277 CRT
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TITAN CARGO SAE 15W-40

Ultra high-performance, fuel-economy oil for a variety of commercial vehicle diesel engines. Specially developed for Volvo with extended service intervals, exhaust after treatment and turbocharger.

Protecting exhaust gas treatment systems with very low sulphated ash levels and low content levels of phosphorus and sulphur. Excellent wear protection, even under constant full load due to the new additive and base oil technology.

Highest neutralization potential (TBN) in its class. Durable protection against aggressive acids and corrosion during the whole oil drain interval.

Reduced content of heavy metals, minimizes contaminant emissions.

Prevents deposits in the engine and turbocharger due to excellent soot handling properties. This results in high levels of performance, reliability and low maintenance costs.

Rationalization of the newest VOLVO, MACK and RV1 engine oil specifications in a single product.

SPECIFICATIONS ACEA E9/E7 API C-14/C1-4 PLUS/C1-4 CAT ECF-3	APPROVALS DETROIT DIESEL DDC 93K2 18 MACK EO-O PREMIUM PLUS MAN M 3575/ 3275-1 MB-APPROVAL 228.31 RENAULT RLD-3 VOLVO VDS-4 DEUTZ DDC II 10 LA CUMMINS CES 2081 MTU DDC type Z.1	RECOMMENDATIONS ALLISON C-4
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TITAN CARGO SAE 10W-30

Ultra high-performance, extreme fuel-economy oil for a variety of commercial vehicle diesel engines. Specially developed for Volvo with extended service intervals, exhaust after treatment and turbocharger.

A revolutionary diesel engine oil designed for commercial vehicles. The combination of state of the art-additive technology with a new base oil matrix with very high oxidation stability provides the highest levels of performance regarding engine durability in highly stressed commercial vehicle engines.

TITAN CARGO SAE 10W-30 was developed for compliance with the current and future American emission legislation (EPA).

TITAN CARGO SAE 10W-30 is particularly advantageous in vehicles fitted with exhaust gas treatment systems such as Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC), high rate of Exhaust Gas Recirculation (EGR), two stage turbo charging and SCR-catalyst (Selective Catalyst Reduction) or any combination of the given technologies.

SPECIFICATIONS ACEA E9 API C-1-4 CAT ECF-1-a / ECF-2 / ECF-3	APPROVALS DEUTZ DOC M10 LA MACK EO-O PREMIUM PLUS MAN M 3575 MB-APPROVAL 228.31 RENAULT RLD-3 VOLVO VDS-4	RECOMMENDATIONS CUMMINS 2081 MTU DDC TYPE Z.1
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TITAN TRUCK PLUS SAE 15W-40

Super High Performance engine oil for a variety of diesel engine. Specially for supercharged commercial vehicle diesel engines.

TITAN TRUCK PLUS SAE 15W-40 is a super-long-term all-season engine oil of the SHPD category for diesel and gasoline engines with and without turbo charging in passenger cars, trucks, buses and industrial equipment that have high requirements with respect to engine cleanliness and maintenance intervals.

SPECIFICATIONS ACEA E7 API C1-4/S1 CAT ECF-1-a/ECF-2 GLOBAL DHD-1	APPROVALS CUMMINS CES 20076 DEUTZ DOC III - 10 MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE-2 RENAULT RLD / RLD-2 VOLVO VDS-3 CUMMINS CES 20077 CUMMINS CES 20078	RECOMMENDATIONS ACEA A3/B4 ALLISON C-4 CASE MS 1121 CAT TO-2 CUMMINS CES 20071/2 DAF IVECO 18-1804 CLASSE T2 E7 NH 330 H STEYR A-201
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TITAN TRUCK SAE 15W-40

Super High Performance engine oil for a variety of diesel and gasoline engines. Specially for supercharged commercial vehicle diesel engines.

TITAN TRUCK SAE 15W-40 is a super-long-life, all-season oil for all diesel engines with and without turbo charging in passenger cars, trucks, buses and industrial equipment. Class SAE 15W-40 ensures reliable all-season use without limitations.

SPECIFICATIONS ACEA E7 API C1-4/S1 GLOBAL DHD-1	APPROVALS MACK EO-N MAN M 3275-1 MB-APPROVAL 228.3 MTU DDC TYPE-2 RENAULT RD VOLVO VDS-2 DEUTZ DDC II CUMMINS 20076 CUMMINS 20077 RENAULT RD-2	RECOMMENDATIONS ACEA A3/B4 CAT ECF-1-a DAF SCANIA
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TITAN UNIVERSAL HD SAE 15W-40

Titan Universal HD SAE 15W-40 is a high performance lubricant for diesel & petrol engines, with and without turbochargers.

Equally suited for highway & construction vehicles

Designed to meet the requirements of European equipment

Contains high detergency level to ensure maximum engine cleanliness and minimal bore polishing or ring sticking

SPECIFICATIONS ACEA A3/B3/B4 API CG-4/CF5L	APPROVALS DEUTZ DDC 142 MAN 271 MB-APPROVAL 228.1 / 229.1 MTU DDC TYPE-2	RECOMMENDATIONS ACEA E2 MIL-L2104 E ALLISON C-4 CASE MS 1120 DAF MACK EO-L NH 330 G SCANIA STEYR A-202 VOLVO VDS VW 501 01/505 00
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Gear & Transmission Oils

TITAN CYTRAC ETN SAE 50

A synthetic transmission lubricant designed for extended drain intervals and increased gear life.

TITAN CYTRAC ETN SAE 50 transmission lubricant is a specially formulated synthetic lubricant designed for extended drain and severe service in heavy duty manual transmissions, which require a non-EP gear or transmission lubricant.

SPECIFICATIONS API MT-1	APPROVALS Eaton PS-1 64 rev 7	RECOMMENDATIONS Arvin Meritor O-81 (pending) International TMS 6816 MACK T0-APLUS ZF TE-ML 02L (pending)
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TITAN CYTRAC ETN-EP SAE 80W-140

Heavy-duty, synthetic, extreme pressure gear oil.

TITAN CYTRAC ETN-EP SAE 80W-140 is a heavy-duty, extreme pressure, API GL-5 gear lubricant compounded using a synthetic base stock, which has a high viscosity index and an exceptionally low pour point. This lubricant contains extreme pressure additives, as well as rust, oxidation and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions.

The high and low temperature performance exceeds the conventional 85w-140 hypoid gear lubricants.

SPECIFICATIONS API MT-1, GL-5	APPROVALS Dana SHAE 429	RECOMMENDATIONS ARVIN MERITOR O-80, O-76-B International TMS 6816 Mack GO-J
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TITAN CYTRAC MAN SYNTH SAE 75W-80

Premium gear oil for extended drain intervals in commercial vehicles manual gearboxes, and is specially developed for manual and automatic ZF-gearboxes, formulated with fully-synthetic base oils. Reduces fuel consumption by improving gearbox efficiency.

Suitable for the longest oil change intervals and compatible with Carbon-Synchronizers.

TITAN CYTRAC MAN SYNTH SAE 75W-80 is a manual transmission fluid formulated with synthetic base oils and is specially developed for use in ZF manual transmissions. The product has been developed to meet long drain specifications of the automotive industry which have been successfully proven in a 600,000 km field test.

SPECIFICATIONS API GL-4	APPROVALS MAN 341 TYPE Z4 ZF TE-ML 01L 02L ZF TE-ML 16K	RECOMMENDATION EATON IVECO RENAULT VOLVO 97307
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TITAN CYTRAC MB SYNTH SAE 75W-90

Premium gear oil for extended drain intervals in commercial vehicles, specially developed for Mercedes-Benz Actros vehicles, formulated with fully-synthetic base oils. Reduces fuel consumption by improving gearbox efficiency. Suitable for the longest oil change intervals.

TITAN CYTRAC MB SYNTH SAE 75W-90 is a heavy duty manual transmission fluid based on fully synthetic base oils and proven additive technologies.

SPECIFICATIONS API GL-4	APPROVALS MAN 341 Type MB MB-APPROVAL 235.11	RECOMMENDATION ZF TE-ML 08
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TITAN CYTRAC LD SAE 75W-80

Ultra high performance gear oil for extended oil change intervals in commercial vehicles fitted with integral interlockers or supplementary retarders.

TITAN CYTRAC LD SAE 75W-80 is a transmission fluid based on synthesis technology for use in heavy duty manual transmissions with or without synchromesh systems as well as attached aggregates such as transmission brakes.

SPECIFICATIONS API GL-4	APPROVALS EATON MAN 341 TYPE E3	RECOMMENDATION DAF MAN 341 TYPE Z3 VOLVO 97305 ZF TE-ML 02D, 08
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TITAN SUPERGEAR HTB SAE 85W-140

Heavy duty hypoid gear oil suited for arduous applications.

The multigrade specification has CR1 (corrosion and rust inhibitor) technology which gives added protection in the harshest environments.

SPECIFICATIONS API GL-5 / GL-4
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TITAN SUPERGEAR SAE 80W-90

Titan Supergear SAE 80W-90 is mineral universal gear oil for use in manual transmissions and axle gear boxes in both passenger cars and commercial vehicles.

Good cold flow properties. This supports easy cold starting and easy shifting in the warm-up period. Improved lubrication and excellent protection against wear even during short-distance winter operation.

Excellent corrosion protection, with providing a defense against rust and attacking of non-ferrous metals.

SPECIFICATIONS API GL-4 / GL-5	APPROVALS MAN 342 TYPE M2 ZF TE-ML 05A / 12E / 16B / 17B / 19B	RECOMMENDATION CATERPILLAR TO-4 ALLISON C4 ZF TE-ML 01/03 KOMATSU EATON KOMATSU DRESSER API GL-4
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TITAN SUPERGEAR SAE 85W-140

Super high-performance gear oil for extended oil change intervals.

TITAN SUPERGEAR SAE 85W-140 is a mineral universal gear oil for use in manual transmissions and axle gearboxes in both passenger cars and commercial vehicles. TITAN SUPERGEAR SAE 85W-140 is miscible and compatible with conventional branded gear oils. However, intermixtures with other gear oils should be avoided in order to fully utilize the product's benefits. Respectively a complete oil change is recommended when converting to TITAN SUPERGEAR SAE 85W-140.

SPECIFICATIONS API GL-4 / GL-5	APPROVALS ZF TE-ML 05A ZF TE-ML 12E ZF TE-ML 16D	RECOMMENDATION MIL-L-2105 D
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TITAN UTTO TO-4 SERIES

A heavy duty transmission and final drive fluid used in a wide range of applications such as automotive, mining, agricultural, and earthmoving.

For specific specifications on the 410/430/450/460 products, ensure to check individual product data sheets.

SPECIFICATIONS API GL-4 CAT 1D-40 KOW/ASU KES 07.868.1	APPROVALS ZF TE-MIL 03C	RECOMMENDATION ALLISON 4 ALLISON TES-439 DANA EATON ZF TE-MIL 07F
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TITAN ATF 5005

Premium ATF for automatic transmission in motor vehicles. Outstanding base oil quality for optimal cold temperature properties and high ageing stability. Durable for excellent wet clutch performance.

TITAN ATF 5005 has been designed based on selected high-quality base oils and a specially developed additive technology. It is highly thermally durable, offers extreme oxidation stability and offers also a reliable performance at very low temperatures. TITAN ATF 5005 is applicable in many applications in passenger cars as well as light and heavy duty vehicles.

APPROVALS MAN 336 TYPE V2 / Z2 MB-APPROVAL 236.6 VOITH 55 6336 XX ZF TE-MIL 04D, 14B, 16L, 17C	RECOMMENDATION ALLISON TES 265 ALLISON TES 389 BMW 81 22 9 400 272 BMW 81 22 9 400 275 BMW 83 22 0 403 248 BMW 83 22 9 407 738 BMW 83 22 9 407 807 BMW 83 22 9 407 858 BMW 83 22 9 407 859 DEXRON III (H) FORD MERCON V MAN 339 TYPE Z3 OPEL 19 40 707 VOLVO 97341 VV TL 521 62 (G 052, 162) ZF TE-MIL 02F, 11E, 14C
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Coolants

MAINTAIN FRICOFIN

Longlife Antifreeze and Corrosion Protection Concentrate for all Liquid Cooled Engines.

MAINTAIN FRICOFIN is an antifreeze coolant concentrate based on mono ethylene glycol. It is free of nitrite, amine and phosphate. Due to its additive composition MAINTAIN FRICOFIN belongs to the hybrid type coolants. MAINTAIN FRICOFIN provides reliable protection against damages caused by cavitation, frost, corrosion and overheating for both modern passenger car and heavy duty engines. Due to its highly active component package, MAINTAIN FRICOFIN protects all metals used in coolant systems. At the same time it preserves seals, plastics and hoses.

SPECIFICATIONS ASTM D 3306-05 ASTM D 4985 AFNOR NF R 15-601 BS 6580:1992 BUNDESWEHR TL 6850-0038/1 SAE J1034	APPROVALS DELTA TR 0199-98-1115 JENBACHER TA 1000-0201 MAN 32.4 NF MAN 32.4 NF PRITARDER MB-FRIGABE 325.0/MB-APPROVAL 325.0 MTU MTL 5048 MWM TR 0199-98-2091 VME 4006/2005 VOITH TURBO 172.00225010	RECOMMENDATION BOMAG LIEBHERR TIV 035; TIV 23009 A OPEL/GM B 040 0240 VV TL 774-C(G 11)
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MAINTAIN FRICOFIN HDD

Ultra high performance engine coolant concentrate based on monoethylene glycol. Free of amines and phosphates with low silicate technology.

MAINTAIN FRICOFIN HDD is a long term coolant concentrate based on mono ethylene glycol for heavy duty diesel applications as well as stationary engines. MAINTAIN FRICOFIN HDD is free of amines and phosphates, combined with a low silicate technology, it prevents reliably highly loaded engines from frost, overheating, corrosion and cavitation. This most efficient protection extends to all metals in the cooling system, especially aluminium.

SPECIFICATIONS ASTM D 3306 ASTM D 3965 ASTM D 4985 BS 6580 AS/NZS 2008:2004 Type A FORD ESE-M97B44-A FORD ESE-M97B 18-C FORD W55-M97-B44-D JIS K2234	APPROVALS MTU 3048 DD 39K217	RECOMMENDATION CUMMINS CES 14603 DETROIT DIESEL 75E 298 DETROIT DIESEL 93K217 FREIGHTLINER 48-2288D GM 1825M / 1899M / HEAVY TRUCK HYUNDAI KENWORTH RO26-170-97 MACK TRUCKS MAN 339 NEW HOLLAND W5N-M97B18-D PACCAR CS 0185 PERKINS TOYOTA RP 329
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Greases

RENOLIT POLIPEX SERIES

RENOLIT POLIPEX SERIES is an all-round lithium complex grease that represents the most advanced lubricating technology which has been formulated for conditions of extreme pressure & temperature.

Also ideal for general purpose applications contains a "tacky additive" that increases water resistance & improves lubrication on worn parts

RECOMMENDATION
NLG1
NLG2

RENOLIT XTB 2

Long life multipurpose grease that has been specially designed for eXtreme Bearing applications.

RENOLIT XTB 2 is suitable for a variety of automotive applications, including wheel bearing and general chassis lubrication. Blue coloured lithium complex grease which has been formulated to provide improved oxidation, wear protection and corrosion resistance compared to conventional greases

RECOMMENDATION
NLG2

RENOLIT LEP 2 HD

RENOLIT LEP 2 HD is a heavy duty extreme pressure grease that protects against component wear under severe conditions. Excellent resistance to water washout ensures lubrication is maintained under extremely wet conditions.

RECOMMENDATION
NLG2

RENOLIT HDCE 2

RENOLIT HD CE2 a high quality heavy duty extreme pressure grease that was specially formulated for earthmoving and construction equipment operating under arduous conditions.

RENOLIT HD CE2 grease is especially suited to applications including hammers, bucket pins and bushes and plain bearing applications of excavators, dump trucks and various other applications where parts are subjected to oscillating movements, vibrations and shockloads. Protects against corrosion even under extreme wet conditions.

RECOMMENDATION
NLG2

Hydraulic Oils

RENOLIN B HVI PLUS RANGE

High performance hydraulic oil series with a high viscosity index that reduces energy consumption. Protects against wear and maintains designed viscosity under a wider operating temperature range.

SPECIFICATIONS
DIN 51 524-3, HVL P
ISO 6743-4, HV
Denison HFO
Bosch Rexroth
Vickers
US Steel
Cincinnati Millacron

RENOLIN B PLUS RANGE

THE RENOLIN B PLUS RANGE is a series of high quality HLP hydraulic oils and CLP Lubricating Oils.

RENOLIN B series of oils improve resistance to ageing increase service life. They provides extended greasing intervals whilst improving wear & corrosion protection as well as oxidation resistance.

SPECIFICATIONS
AFNOR E48-603
Cincinnati Millacron P-68, P-69, P-70
US Steel 136, 127
Denison HF-1, HF-2, HF-O
Racine, variable volume vane pumps
Ford M-6C32
AFNOR E48-
Cincinnati Millacron P-68, P-69, P-70
US Steel 136, 127
Denison HF-1, HF-2, HF-O
Racine, variable volume vane pumps
Ford M-6C32

Cleaners

RENOCLEAN FLEETWASH

Renoclean Fleetwash is a detergent based heavy duty vehicle wash with "quick-break" properties.

Renoclean Fleetwash was formulated to effectively clean heavy equipment such as dump trucks, cranes, prime movers, trailers, dozers and excavators.

Renoclean Fleetwash is highly effective for removing most soils including dirt, mud, grime, oil and soot.

SPECIFICATIONS

Biodegradable
AS 4351.2
ISO 7827

RENOCLEAN DEGREASER 9110

Renoclean Degreaser 9110 is a solvent based degreasing solution developed to dissolve oil and grease residues.

Renoclean Degreaser 9110 is suitable for heavy duty degreasing operations where a versatile solvent based cleaner is required. It does not effect any common metals and is easily removed by rinsing with cold water.

RENOCLEAN ORANGE

Renoclean Orange is a quality hand cleaner that has been developed for the effective cleaning of heavily soiled, oily and grease covered hands.

Renoclean Orange leaves hands feeling smooth and clean without the greasy feeling that many other cleaners leave behind.

RENOCLEAN ECOSOLVE

Renoclean Ecosolve is a solvent based, biodegradable, quick break degreaser. Renoclean Ecosolve has been formulated to remove tenacious soilage as encountered in mining operations.

Renoclean Ecosolve is a biodegradable, solvent-based, heavy duty wash with "quick-break" properties. Renoclean Ecosolve is formulated to effectively clean heavy mining & industrial equipment such as dump trucks, cranes, prime movers, trailers, dozers and excavators.

A Guide to Engine Oil Specifications:

A wide variety of different engine oils with different specifications are available. This guide explains what the most important engine oil specifications mean:

ACEA The European ACEA specifications designate engine oil applications with letters:

- A** for car gasoline engines
- B** for small-capacity diesel engines in cars, vans and transporters
- C** for cars fitted with exhaust particulate filters
- E** for commercial vehicle diesel engines

API (American Petroleum Institute) categories refer to American requirements and quality criteria, which engine oils must fulfil. The current API grades are SN for gasoline engines and CI-4 for commercial diesel engines. Car diesel engines are not currently classified by the API.

SAE: The following properties of an engine oil are described by SAE (Society of Automotive Engineers) grades. Taking the example of an SAE 0W-30 engine oil, the first numeral describes the viscosity at low temperatures. The smaller this number, the better the oil flows at low temperatures to reach the important lubrication points in the engine. The second figure describes the viscosity at running temperatures.

Gasoline Engines:

- A1** Category for low viscosity engine oils with a particularly low High Temperature, High Shear viscosity (HTHS, <3.5m Pas). Recommended viscosity grades are XW-30 and XW-20.
- A2** Category for conventional and low-viscosity engine oils.
- A3** Category for conventional and low-viscosity engine oils with greater demands than A2. Out-performs ACEA A2 with regard to Noack (evaporation losses), piston cleanliness and oxidation stability
- A5** Category for conventional and low-viscosity engine oils. Corresponds to ACEA A3 but with lower HTHS viscosity. A reduction in fuel consumption of 2.5 % compared to a 15W-40 reference oil must be proven in a test engine.

Car Diesel Engines:

- B1** Category for low-viscosity engine oils with particularly low High Temperature High Shear viscosity (corresponds to A1).
- B2** Category for conventional and low viscosity engine oils.
- B3** Category for conventional and low-viscosity engine oils. Out-performs ACEA B2 with regard to cam wear, piston cleanliness and viscosity stability in high soot conditions.
- B4** New category for diesel Direct Injection engines (TDI).
- B5** Corresponds to ACEA B4 but with lower HTHS viscosity. A reduction in fuel consumption of 2.5 % compared to a 15W-40 reference oil must be proven in a test engine
- C1** Introduced in 10/2004 for car diesel engines fitted with exhaust particulate filters. Sulphate ash content, max. 0.5 % with lowered HTHS (most common in Mazda & Ford).
- C2** Introduced in 10/2004 for car diesel engines fitted with exhaust particulate filters. Sulphate ash content, max. 0.8 % with HTHS > 2.9 mPas (most common in Peugeot / Citroen / Renault).
- C3** Introduced in 10/2004 for car diesel engines with exhaust particulate filters. Sulphate ash content, max. 0.8 % with HTHS > 3.5 mPas (widest appeal of the ACEA C Series).
- C4** Sulphated Ash content as C1, HTHS viscosity and FE as C3. Low minimum TBN (most common in Renault & Nissan).

Commercial Vehicle Diesel Engines

- E1** No longer valid
- E2** Corresponds in general to MB 228.1
- E3** Invalid since 10/2004
- E4** based largely on MB 228.5. No OM 364 A engine test required but Mack T8& T8E, extended oil change intervals, suitable for Euro III engines.
- E5** Invalid since 10/2004
- E6** For engines with EGR (Exhaust Gas Recirculation), with or without diesel particulate filters and SCR (Selective Catalytic Reduction) NOx engines; recommended for engines fitted with exhaust particulate filters in combination with sulphur-free fuels; sulphate ash content <1% (wt).
- E7** For engines without diesel particulate filters, most engines with EGR and SCR NOx, sulphate ash content max. 2% (wt).
- E9** Super High Performance Diesel (SHPD) engine oil with SAPS limitations. Recommended for standard oil drain intervals in commercial vehicles with exhaust gas after treatment systems like DPF, EGR and SCR running under severe conditions in combination with low sulphur Diesel fuel.

WHY FUCHS?

LUBRICANTS.

FUCHS focuses on lubricants and offers solutions for all issues and fields of application in the world of lubricants.

TECHNOLOGY.

FUCHS claims technological leadership in strategically important fields of application and is acknowledged as the number one technology partner by its customers. Not only does FUCHS focus on its own lubricants, it also takes a holistic approach, paying close attention to the processes in place at its customers.

PEOPLE.

FUCHS' dedicated corporate culture, coupled with its loyal and motivated workforce, is the strategic key to its success. Our employees form the basis for this success.



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YOUR NEAREST DISTRIBUTOR IS: