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TITAN engine oils are the result of the latest research and development by the world’s largest independent lubricant specialist. Developed together with leading automobile manufacturers, tailored to satisfy the demands of today’s high-tech engines: offering outstanding high-performance, fuel-economy and wear protection.

TITAN engine oils: Premium quality from the German automobile industry’s leading lubricant OEM. Made in Germany.

FUCHS was the only lubricant supplier presented with the Volkswagen Group Award 2014. Volkswagen recognized FUCHS for innovation, R&D, product quality and competent project management. Benefit from the outstanding experience of one of the leading Development-partners and factory-fillers to the German Auto-industry.

Benefit from FUCHS. www.fuchs-europe.de
**Premium Performance Engine Oil with new XTL®-Technology in path-breaking viscosity class. Specially designed for highly stressed downsized engines with maximum power output.**

- maximum fuel-saving potential and reduced CO₂ emissions.
- excellent cold starting characteristics
- outstanding performance reserves
- 1. product according to the new BMW LONGLIFE-14 FE+

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**Specifications:**
ACEA A1/B1

**Approvals:**
BMW LONGLIFE-14 FE+

**FUCHS Recommendations:**
TOYOTA
HONDA

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**Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology. Specially developed for BMW, Mercedes-Benz and Opel vehicles with exhaust after treatment and turbocharger.**

- best cold starting characteristics
- significantly lower fuel and oil consumption
- improved ageing stability
- outstanding performance reserves for modern vehicles with or without extended service intervals
- rationalisation brand for free car workshops

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**Specifications:**
ACEA C3
API SN/SM

**Approvals:**
BMW LONGLIFE-04
dexos2™ (GB2C0209075)
MB-APPROVAL 229.51 / 229.52
VW 502 00 / 505 00 / 505 01

**FUCHS Recommendations:**
FIAT 9.55535-S3
FORD M2C917-A
supersedes GM-LL-A-025
supersedes GM-LL-B-025

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**Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology. Specially developed for BMW-, VW and Mercedes-Benz vehicles with exhaust after treatment and turbocharger.**

- best cold starting characteristics
- significantly lower fuel and oil consumption
- improved ageing stability
- outstanding performance reserves for modern vehicles with or without extended service intervals
- rationalisation brand for free car workshops
- reduced evaporation loss

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**Specifications:**
ACEA C3
API SN/SM/CF
FORD M2C917-A

**Approvals:**
BMW LONGLIFE-04
MB-APPROVAL 226.5/ 229.51 / 229.52
VW 502 00 / 505 00 / 505 01

**FUCHS Recommendations:**
FIAT 9.55535-S2
supersedes GM-LL-A-025
supersedes GM-LL-B-025

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**GT1 PRO C-1**
SAE 5W-30

*Premium Performance, extreme fuel-economy engine oil. Specially developed for vehicles with exhaust after treatment and turbocharger.*

+ optimum formulation for modern cars and vans with or without extended service intervals
+ reduced cold starting characteristics wear
+ radically reduced contaminant emissions – a plus for the environment!

**Specifications:**
- ACEA C1

**Approvals:**
- FUCHS Recommendations:
  - JASO DL-1
  - FORD WSS-M2C934-B
  - MAZDA

**FUCHS Recommendations:**
- FIAT 9.55539-S1
- HONDA
- MAZDA
- SUBARU
- SUZUKI
- TOYOTA

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**GT1 PRO C-2**
SAE 5W-30

*Premium Performance, extreme fuel-economy engine oil. Specially developed for PSA vehicles with exhaust after treatment and turbocharger.*

+ optimum formulation for modern cars and vans with or without extended service intervals
+ reduced cold starting characteristics wear
+ radically reduced contaminant emissions – a plus for the environment!

**Specifications:**
- ACEA C2
- API SN/SM/CF

**Approvals:**
- PSA B71 2290

**FUCHS Recommendations:**
- FIAT 9.55539-S1
- HONDA
- MAZDA
- SUBARU
- SUZUKI
- TOYOTA

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**GT1 PRO C-4**
SAE 5W-30

*Premium Performance, extreme fuel-economy engine oil. Specially developed for Renault vehicles with exhaust after treatment and turbocharger.*

+ optimum formulation for modern cars and vans with or without extended service intervals
+ reduced cold starting characteristics wear
+ radically reduced contaminant emissions – a plus for the environment!

**Specifications:**
- ACEA C4

**Approvals:**
- MB-APPROVAL 226.51
- RENAULT RN0720

**FUCHS Recommendations:**
- FIAT 9.55539-S1
- HONDA
- MAZDA
- SUBARU
- SUZUKI
- TOYOTA

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**GT1 PRO B-Tec**
SAE 5W-30

*Premium Performance, extreme fuel-economy engine oil with new XTL®-Technology. Specially for Mercedes-Diesel-Vehicles with exhaust after treatment and turbocharger.*

+ optimum formulation for modern cars and vans with or without extended service intervals
+ optimum cold starting characteristics
+ lower oil consumption
+ minimized exhaust emissions

**Specifications:**
- ACEA C2/C3

**Approvals:**
- MB-APPROVAL 229.52

**FUCHS Recommendations:**
- -

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**Supersyn LONGLIFE PLUS**  
**SAE 0W-30**

Ultra High Performance, extreme fuel-economy engine oil formulated with fully synthetic base oil for VW engines. Specially developed for VW Longlife Technology.

- suitable for gasoline and diesel car engines with or without unit injector technology
- highly stable lubricating film and thus outstanding lubrication at high temperatures such as in stop-and-go traffic in hot summers
- excellent fuel economy and significantly reduced cold-start wear

**Specifications:**
- ACEA A3/B4
- API SL

**Approvals:**
- VW 503 00/506 01

**FUCHS Recommendations:**
- ACEA A5/B5
- BMW LONGLIFE 01-FE
- VW 506 00

**Supersyn LONGLIFE**  
**SAE 0W-30**

Ultra High Performance, extreme fuel-economy engine oil for a variety of vehicles with or without extended service intervals.

- excellent cold starting characteristics
- lower oil consumption

**Specifications:**
- ACEA A3/B4
- API SN

**Approvals:**
- MB-APPROVAL 229.5

**FUCHS Recommendations:**
- BMW LONGLIFE-01
- PORSCHE A40
- VW 502 00/505 00

**Supersyn LONGLIFE**  
**SAE 0W-40**

Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals.

- excellent cold starting characteristics
- lower oil consumption

**Specifications:**
- ACEA A3/B4
- API SN

**Approvals:**
- MB-APPROVAL 229.5

**FUCHS Recommendations:**
- BMW LONGLIFE-01
- PORSCHE A40
- VW 502 00/505 00
- MB-APPROVAL 226.5 / 229.5
- REKA Renault RN0 700/RN0 710
- VW 502 00/505 00

**Supersyn LONGLIFE**  
**SAE 5W-40**

Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals.

- good cold starting characteristics
- lower oil consumption
- high thermal stability

**Specifications:**
- ACEA A3/B4
- API SN/SM/CF

**Approvals:**
- BMW LONGLIFE-01
- MB-APPROVAL 226.5 / 229.5
- PORSCHE A40
- REKA Renault RN0 700/RN0 710
- VW 502 00/505 00

**FUCHS Recommendations:**
- GM-LL-B-025
- HYUNDAI
- PSA B71 2296

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**Supersyn F Eco-B**  
SAE 5W-20

*Ultra High Performance, extreme fuel-economy engine oil for Ford vehicles with Eco-Boost gasoline engines. Optimum cold starting, lower oil consumption and minimized exhaust emissions.*

+ good cold starting characteristics  
+ minimal oil consumption

**Specifications:**  
ACEA A1/B1  
API SN

**Approvals:**  
FORD M2C948-B

**FUCHS Recommendations:**  
CHRYSLER MS 6395  
FORD M2C925-A  
FORD M2C925-B


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**Supersyn F Eco-DT**  
SAE 5W-30

*Ultra High Performance, extreme fuel-economy engine oil for Ford vehicles with Dura-Torq-Diesel engines. Optimum cold starting, lower oil consumption and minimized exhaust emissions.*

+ good cold starting characteristics  
+ minimal oil consumption

**Specifications:**  
ACEA A5/B5  
API SL/CF  
FORD M2C913-C

**Approvals:**  
FORD M2C913-D

**FUCHS Recommendations:**  
CHRYSLER MS 6395  
FORD M2C913-A / FORD M2C913-B  
IVECO 18-1811  
JAGUAR M2C913-B  
RENAULT RN0700


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**Supersyn**  
SAE 5W-40

*Ultra High Performance, fuel-economy engine oil for a variety of vehicles with or without extended service intervals. Optimum cold starting, lower oil consumption and minimized exhaust emissions.*

+ good cold starting characteristics  
+ minimal oil consumption

**Specifications:**  
ACEA A3/B4  
API SN/SM/CF

**Approvals:**  
MB-APPROVAL 229.3  
PORSCHIE A40  
RENAULT RN0700/RN0710  
VW 502 00/505 00

**FUCHS Recommendations:**  
BMW LONGLIFE-98  
FIAT 9.55535-H2/M2/N2/Z2  
GM-LL-A-025  
GM-LL-B-025


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**SYN MC**  
SAE 10W-40

*Super High Performance, fuel-economy engine oil based on MC-synthesis for a variety of gasoline and diesel engines in passenger cars. Optimum cold starting, lower oil consumption and minimized exhaust emissions.*

+ good cold starting characteristics  
+ minimal oil consumption

**Specifications:**  
ACEA A3/B4  
API SL/CF

**Approvals:**  
MB-APPROVAL 229.1

**FUCHS Recommendations:**  
BMW SPEZIAL  
FIAT 9.55535-D2/G2  
MAZDA  
VW 500 00/505 00

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How to find the right motor oil.

There are all sorts of motor oils available which fulfil all manner of specifications. This should explain what the most important motor oil specifications mean.

SAE: The viscosity of an motor oil is described by its SAE Grade (SAE = Society of Automotive Engineers). In the case of an SAE 0W-30 motor oil, the first number describes how thin the oil is at low temperatures. The smaller this number, the better the oil flows at low temperatures and the faster the oil reaches important bearings in the engine. The second figure describes the flowability of the oil at high temperatures.

ACEA: The ACEA engine oil specifications for gasoline and diesel engines differentiate between the Ax/Bx classifications and the Cx classifications with limits in the sulfated ash, phosphorus and sulfur contents.

A1/B1 Category for Fuel Economy engine oils with especially low High Temperature High Shear viscosity. HTHS of 2.6 to 3.5 mPas applies to XW-20, 2.9 to 3.5 mPas for all others. Corresponds to the old A1 and B1 specifications with some new engine tests. High content of Sulfated Ash.


A3/B4 Same as A3/B3 but also for direct injection diesel engines. High content of Sulfated Ash.

A5/B5 Category for high-performance engine oils. For Gasoline and TDI engines with Fuel Economy Performance, with reduced HTHS (2.9 to 3.5). Extended oil change intervals possible. High content of Sulfated Ash.

C1 Largely based on the ACEA A5/B5. Strict limitation of SAPS content. Low HTHS viscosity of >2.9 mPas. Maximum FE>3%.

C2 Same as C1 but with higher Sulphated Ash content permissible (as with C3 <0.8%). High FE>2.5%.

C3 Same as C2 expect for HTHS >3.5% and reduced Fuel Economy performance >1%. Low Minimum-TBN.

C4 Sulphated Ash content as C1, HTHS viscosity and FE as C3. Low Minimum-TBN.

The API differentiates between a class for gasoline engines (S = service oils) and a class for diesel engines (C = commercial).

API SN For all automotive engines currentlyin use. Introduced in 2010. SN is designed to provide improved high temperature, deposit protection for pistons, more stringent sludge control, and seal compatibility. Matches ILSAC GF-5 by combining API SN performance with improved fuel economy, turbocharger protection, emission control system compatibility, and protection of enginges operation on ethanolcontaining fuels up to E85.


API CJ-4 Introduced in 2006. Designed to meet 2007 model year-on-highway exhaust emissionstandards. For use in all applications with diesel fuels ranging in sulphur content up to 500 ppm (0.05% by weights) CJ-4 oils are effective at sustaining emission control system durability.

API CI-4 Introduced in 2002. Designed to meet 2004 exhaust emission standards implemented in 2002. CI-4 oils are formulated to sustain engine durability where exhaust gas recirculation (EGR) is used and are intended for use with diesel fuels ranging in sulphur content up to 0.5% weight.

API CH-4 Introduced in 1998. Compounded for use with diesel fuels ranging in sulphur content up to 0.5% weight. Replaces CG-4.

Approvals by manufacturers.

Apart from the specifications listed above, a number of manufacturers demand their own limits and engine tests.

**BMW specification** | **Application area**
--- | ---
**BMW LONGLIFE-98** (list closed) | Oils for special gasoline engines from 1998 on.
**BMW LONGLIFE-01** | Oils for special gasoline engines from 09/2001 on.
**BMW LONGLIFE-01FE** | Oils for special gasoline engines from 2001 on.
**BMW LONGLIFE-04** | Quality same as Longlife 01 expect with lower HTHS for better fuel econoym. For gasoline engines and diesel enginges with fiters from 2004 on.
**BMW LONGLIFE-14 FE+** | For N20 and Bx8 BMW Otto engines from MY 2014. Engine oil with lower HTHS for greatest fuel economy.

**OPEL specification** | **Application area**
--- | ---
**GM-LL-B-025** | Oils for diesel car engines, Fuel Economy.
dexos2™ | Prospective GM specification for the aftermarket for gasoline and diesel engines.
### MB-specification Application area

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MB-APPROVAL 229.3</td>
<td>Engine oils for cars with extended oil change intervals (30,000 km).</td>
</tr>
<tr>
<td>MB-APPROVAL 229.31</td>
<td>Engine oils for cars with exhaust gas after treatment. Low ash content required.</td>
</tr>
<tr>
<td>MB-APPROVAL 229.5</td>
<td>Fuel Economy engine oil for even longer oil change intervals (vehicles from 2002 on) with service indicators. Special, stricter requirements than ACEA A3/B3. For use in all car gasoline and diesel engines. This oil also complies with 229.1 and 229.3.</td>
</tr>
<tr>
<td>MB-APPROVAL 229.51</td>
<td>Very high performance oil for engines with diesel particle filters and extended oil change intervals. Better fuel economy than MB 229.5.</td>
</tr>
<tr>
<td>MB-APPROVAL 229.52</td>
<td>Especially for the new BlueTec engines (OM 642; emission standard EURO 6). Highest requirements on oxidation stability and fuel economy. Backwards compatible with 229.51.</td>
</tr>
<tr>
<td>MB-APPROVAL 226.51</td>
<td>Engine oil for cars, especially developed for the diesel engine OM 607 (only in W176 and VAN-engines (Citan)) based on RENAULT technology. Meets ACEA C4.</td>
</tr>
</tbody>
</table>

### FORD-specification Application area

| M2C 925-B | For all diesel and gasoline engines except series Ford ka. Viscosity SAE 5W-20. Meets ACEA A5/ B5. If not available, M2C 913-B may be used instead (viscosity 5W-30). |
| M2C 937-A | Viscosity SAE 0W-40, special for Ford Focus RS. Developed and required for the 1.0 and 1.6 L EcoBoost R engines (expect Ford Ka, Focus ST and Focus RS). |

### PSA-specification Application area

| PSA B71 2290 | Mid SAPS engine oil with lower HTHS viscosity for vehicles fitted with particle filters. For service service use aligned to ACEA C2. SAE 5W-30. |
| PSA B71 2296 | HighSAPS engine oil for service use (PSA level 3) aligned to ACEA A3/B4 or A5/B5 performance, therefore also with lower HTHS viscosity. SAE xW-30/40. |
| PSA B71 2312 | LowSAPS engine oil for service use aligned to ACEA C1/C2. SAE 0W-30. |

### PORSCHE-specification Application area

| A40 | For all Porsche gasoline engines (SAE 0W-40, 5W-40/50) and VW gasoline engines without Longlife-Service (SAE 0W-40, 5W-40). |
| C30 | For all gasoline engines of VW make with and without Longlife-Service and for all VW-Diesel engines (always SAE 5W-30). Identical to VW 504 00 / 507 00. |

### RENAULT-specification Application area

| RN0700 | For gasoline engines, cooresponds to ACEA A3 B4 and A5/B5. |
| RN0710 | For diesel engines without particle filters, SAE 5W-40, corresponds to ACEA A3/B4. |
| RN0720 | For diesel engines with particle filters, SAE 0/5W-30/40, corresponds to ACEA C4. An additional RENAULT engine test is required. |

### VW-specification Application area

| VW 502 00 | Low viscosity oils for gasoline engines and difficult operating conditions. Normal service intervals. Replaces VW 501 01 and VW 500 00. |
| VW 503 00 | New specification for gasoline car engines with extended service intervals (30,000 km or 2 years). Surpasses the requirements of 502 00. (HTHS 2.9 mPas). Meets ACEA A1. SAE 0W/5W-30. |
| VW 503 01 | Specification for turbocharged gasoline car engines with extended service intervals, e.g. Audi S3, TT. (HTHS > 3.5 mPas). |
| VW 504 00 | For all gasoline engines with extended service intervals. Replaces VW 503 00 and 503 01. |
| VW 505 00 | All-season motor oils for diesel engines with or without turbo charging. Normal service intervals. |
| VW 505 01 | All-season engine oils especially for Unit Pump diesel engines. Normal service intervals. Meets ACEA B4 |
| VW 506 00 | Specification for diesel engines with extended service intervals (50,000 km or 2 years), (HTHS 2.9 mPas) |
| VW 506 01 | Specification for Unit Pump diesel engines with extended service intervals. |
| VW 507 00 | For almost all diesel engines with extendert service intervals, unitary injector pumps and Unit Pumps. Retrospectively compatible back to 2000. Excludes V10 and R5 engines built before 2006. |
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High-tech protection for engines

Engine oils for passenger cars
1/2015