

**Faster. Stronger.
Better for your Engine.**

XTL[®]
TECHNOLOGY



LUBRICANTS.
TECHNOLOGY.
PEOPLE.



XTL[®]
TECHNOLOGY

Modern engines mean increased engine oil loads

A groundbreaking engine oil technology. Engine oils with XTL[®] technology also under extreme conditions come faster and more easily to the places in the engine where the protective film of the engine oil is urgently needed. And that reliable over the entire duration of the corresponding oil change intervals.

This means for the driver: easier starting procedures, less wear and lower fuel consumption. The oil consumption is also significantly lower compared with conventional oils of the same viscosity classes.

Benefit from the advantages of a worldwide unique technology

XTL[®]
TECHNOLOGY

FUCHS XTL[®] technology is a central technology platform that forms the basis for current and future developments. XTL[®] technology stands for eXtreme Temperature Lubrication, which is a collective term for all measures and technologies that display exceptional performance under extreme conditions and at extreme temperatures. In selected engine oils, XTL[®] is already helping reduce fuel consumption compared to standard oils from the SAE 5W-30 viscosity class.



The NEDC (New European Driving Cycle) performed with a MERCEDES C 250 CDI impressively underlines just how effective Fuchs XTL[®] technology can be at reducing fuel consumption and CO₂ emissions compared to conventional SAE 5W-30 oils.

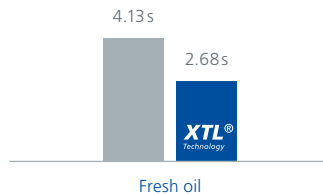
Low-viscosity SAE 0W-20 engine oils, which are likely to increasingly replace the old SAE 5W-30 oils in the near future, also promise further fuel savings.

The result of painstaking development

The performance of the XTL[®] engine oil technology was also tested under extreme conditions. To test the special advantages of the start-up behavior, in a series of thorough tests a conventional engine oil with current 5W-30 technology and the respective manufacturer approvals was compared with an engine oil of the same viscosity based on the new XTL[®] technology in a cold chamber at -27°C.

Start times at -27°C: Fresh oil

Test procedure: Rolling road test in a cold chamber at -27°C, MERCEDES-BENZ C220 CDI



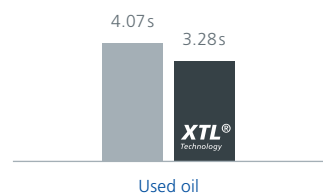
■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil

■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL[®] technology

Start times at -27°C: Used oil

■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil

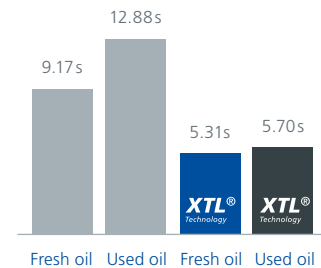
■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL[®] technology



Thoroughly tested

Comprehensive engine tests show that the higher performance reserves of XTL[®] engine oil technology not only mean an easier start, lower wear and higher reliability, but that fuel consumption is significantly reduced, too. With an additional fuel saving of 1.7% compared to a conventional engine oil from the viscosity class 5W-30, the superior smooth running properties of this new technology are highly evident.

Lubrication times at -27°C:

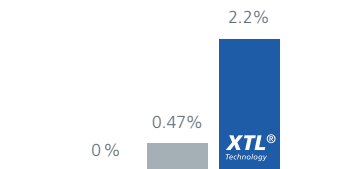


■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil

■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL[®] technology

Fuel saving, measured in a MERCEDES-BENZ C 250 CDI

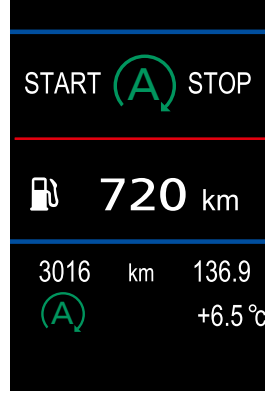
Test procedure: Rolling road test, NEDC test, MERCEDES-BENZ C 250 CDI



■ Standard SAE 5W-30 engine oil (reference)

■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil

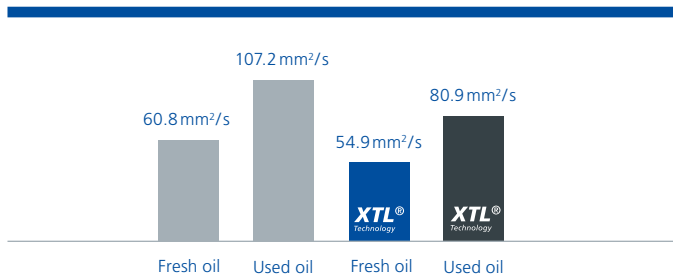
■ TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL[®] technology



Impressive results

The new XTL® engine oil lubricates the engine more quickly, thus providing better protection from start-up wear and lowering fuel consumption. And not just when the oil is fresh, but consistently throughout the entire oil change interval. This is also impressively demonstrated by the test results for the GM 3800 V6 engine, which show that the increase in viscosity from fresh oil to used oil when using XTL® engine oil is 38% lower than for a comparable, conventional engine oil. The result is significantly improved protection over a longer period.

Viscosity increase after 100 hours in a 3.8 l V6 engine (153 kW). XTL® retains higher performance, viscosity increase is 38% lower



■ Conventional SAE 5W-30 low-friction engine oil
 ■ SAE 5W-30 engine oil with XTL® technology

Extremely aging-resistant

With its high performance reserves and outstanding aging stability, the new XTL® engine oil technology from FUCHS offers the very highest level of safety and reliability along with excellent fuel savings.

Across the entire oil change interval. At all times and in every situation.

At a glance:

The advantages and benefits of the new XTL® engine oil technology

- Better low-temperature start-up behavior: up to 55% faster lubrication times* and up to 35% faster start-up times*
- Lower fuel consumption: up to 1.7% additional reduction in fuel consumption*
- Reduced oil consumption: up to 18% less*
- Improved aging stability: 38% lower increase in viscosity. And thereby higher performance and operational reliability across the entire oil change interval

* Compared with a conventional SAE 5W-30 low-friction engine oil.

TITAN GT1 EVO SAE 0W-20

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
- approved for BMW LONGLIFE-14 FE+



Specifications:
ACEA A1/B1

Approvals:
BMW LONGLIFE-14 FE+
JAGUAR LAND ROVER
STJLR.51.5122

FUCHS Recommendations:

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TITAN GT1 PRO V SAE 0W-20

Premium performance engine oil with new XTL® technology in ground-breaking viscosity class. Specially designed for modern VOLVO vehicles.

- maximum fuel-saving potential
- excellent cold starting behaviour and very fast oil circulation
- outstanding performance reserves
- approved for VOLVO VCC RBS0-2AE



Specifications:
ACEA A1/B1

Approvals:
VOLVO VCC RBS0-2AE

FUCHS Recommendations:

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TITAN GT1 LONGLIFE IV SAE 0W-20

Premium performance engine oil with new XTL® technology in ground-breaking viscosity class. Specially designed for modern VW vehicles.

- maximum fuel-saving potential of more than 4% in the M111 FE test and reduced CO₂ emissions
- extreme fuel-economy characteristics
- very fast oil circulation
- outstanding performance reserves
- suitable for extended oil change intervals



Specifications:
ACEA A1/B1

Approvals:
VW 508 00/509 00

FUCHS Recommendations:
PORSCHE C20

TITAN GT1 SAE 0W-20

Premium performance engine oil with new XTL® technology in path-breaking viscosity class and globally unique zinc-free additive technology, for high performance cars with gasoline and diesel engines.

- specially designed for sportive driving and maximum power output
- extreme fuel-economy characteristics
- excellent cold starting behaviour
- outstanding performance reserves



Specifications:

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Approvals:

–

FUCHS Recommendations:
ACEA C2
API SL
ILSAC GF-4

TITAN GT1 LL-12 FE SAE 0W-30

Premium performance engine oil with new XTL® technology. Specially developed for latest BMW gasoline and diesel vehicles with exhaust after treatment.

- excellent cold starting
- lower oil consumption
- outstanding performance reserves



Specifications:
ACEA C2

Approvals:
BMW LONGLIFE-12 FE

FUCHS Recommendations:
-

TITAN GT1 PRO FLEX SAE 5W-30

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
- outstanding performance reserves for modern vehicles with or without extended service intervals



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
GM-LL-A-025; GM-LL-B-025

TITAN GT1 PRO C-3 SAE 5W-30

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.

- for optimum cold start ability
- significantly lower fuel and oil consumption
- improved ageing stability
- outstanding performance reserves



Specifications:
ACEA C3; API SN

Approvals:
BMW LONGLIFE-04
MB-APPROVAL 229.51
PORSCHE C30
VW 504 00/507 00

FUCHS Recommendations:
FIAT 9.55535-S3
FORD M2C917-A

TITAN GT1 PRO 229.6 SAE 5W-30

Premium performance, extremely fuel-saving engine oil of the top class with exclusive FUCHS XTL® technology especially for modern MERCEDES-BENZ gasoline vehicles.

- reduced fuel consumption by 2.7% compared to the reference in the MB M 111 test
- lower CO₂ emissions
- lower oil consumption
- improved aging stability



Specifications:
ACEA A5/B5

Approvals:
MB-APPROVAL 229.6

FUCHS Recommendations:
-

TITAN

GT1

SAE 5W-40

Premium performance, fuel-economy engine oil with new XTL® technology for optimum cold start ability and outstanding performance reserves. For modern passenger cars and light commercial vehicles with or without extended service intervals.

- best cold starting characteristics
- significantly lower fuel consumption
- outstanding performance reserves
- specially developed for vehicles with exhaust after treatment and turbocharger



Specifications:

ACEA C3; API SN/SM
FORD M2C917-A

Approvals:

BMW LONGLIFE-04
MB-APPROVAL 226.5/229.31
PORSCHE A40
RENAULT RN0700/RN0710
VW 502 00/505 00/505 01

FUCHS Recommendations:

API CF; FIAT 9.55535-S2



FUCHS is awarded by German automotive manufacturers. For its innovative power, development competence, product quality and its competent project management.

Take advantage of the outstanding experience from one of the leading development partners and lubricant manufacturers of the German automotive industry. Try us.

www.fuchs.com/de/en

Note

The information contained in this product information is based on the experience and know-how of FUCHS SCHMIERSTOFFE GMBH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. Our products must not be used in aircrafts/spacecrafts or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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