

TITAN

**Faster. Stronger.
Better for your engine.**



XTL[®]
TECHNOLOGY

**A groundbreaking
engine oil technology**

LUBRICANTS.
TECHNOLOGY.
PEOPLE.





TITAN

Advanced engines, greater engine oil stress.

Advanced engine oils for cars, which meet today's demands of engine manufacturers already, offer very high performance levels. But the stresses on engine oils are increasing, for example as a result of downsized, fuel-efficient engine designs. Apart from this the conditions under which engines have to perform reliably are getting more extreme. Furthermore, new and fuel-saving technologies such as start-stop systems make specific demands on the starting characteristics and lubrication reliability of the engine oil. In urban traffic start-stop systems cause clearly more start activities than in conventional start systems. The load on the engine oil increases noticeably over the entire manufacturer's recommended oil change interval. Considering this, it is even more important that the oil circulates rapidly to the places where it is needed.

XTL[®]
TECHNOLOGY



TITAN

TITAN GT1 EVO SAE 0W-20

The first and so far only product in the world to fulfill the strict requirements of the new BMW Longlife-14 FE+ specifications and receive corresponding approval.

Enjoy the benefits offered by FUCHS XTL®-Technology in your vehicle

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 SAE 5W-30 oils.



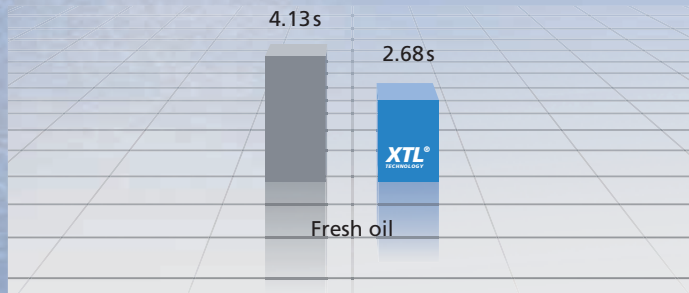
Low-viscosity SAE 0W-20 engine oils, which are likely to increasingly replace the old SAE 5W-30 oils in the near future, also promise further fuel savings. The NEDC (New European Driving Cycle) completed with a Mercedes C 250 CDI impressively underlines just how effective Fuchs XTL®-Technology can be at helping reduce fuel consumption and CO2 emissions over comparable 5W-30 oils. We have set the bar very high with our new 0W-20 oil and have both demonstrated and qualified the performance of XTL® in the OEM environment.

Carefully developed.

The performance of XTL® engine oil technology was also tested under extreme temperature conditions. For testing the unique advantages especially while starting, a complex series of engine tests were performed in a cold chamber at -27 °C to compare conventional engine oils with normal 5W-30 technology and corresponding manufacturers approvals with an engine oil of the same viscosity based on the new XTL® -Technology.

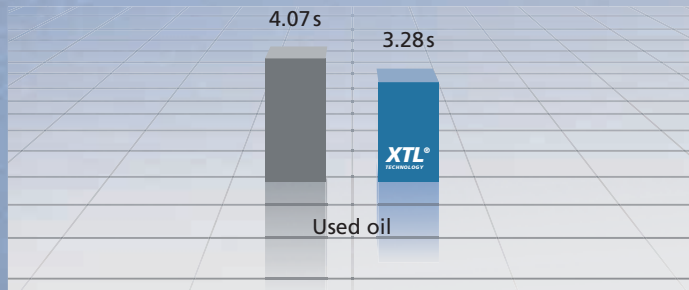
Start-up time at -27 °C fresh oil

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-up time at -27 °C used oil

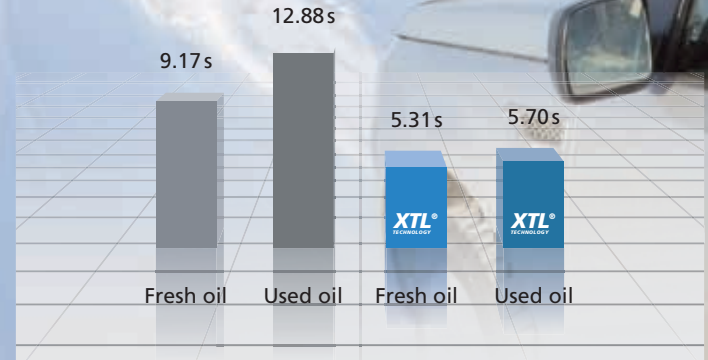


- TITAN GT1 PRO FLEX SAE 5W-30 engine oil
- TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL® -Technology

Extensively tested.

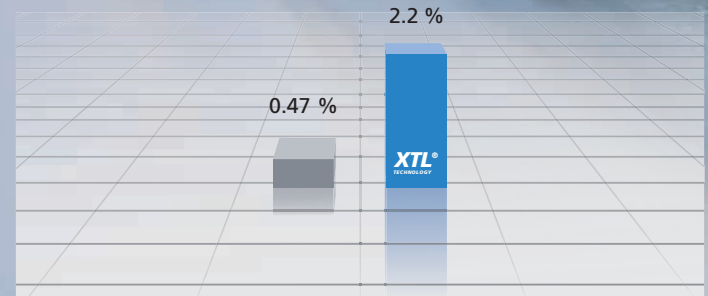
Comprehensive engine tests have shown: The higher performance reserves of XTL® engine oil technology not only offer easier start-ups, less wear and greater reliability. It also cuts fuel consumption. Additional fuel savings of 1.7 % compared to conventional 5W-30 engine oils highlight the exceptional fuel-economy characteristics of this new technology.

Oil circulation time at -27 °C



- TITAN GT1 PRO FLEX SAE 5W-30 engine oil
- TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL® -Technology

Lower fuel consumption compared to an SAE 5W-30 fuel-economy oil. Measured in a Mercedes-Benz C-Class 250 CDI

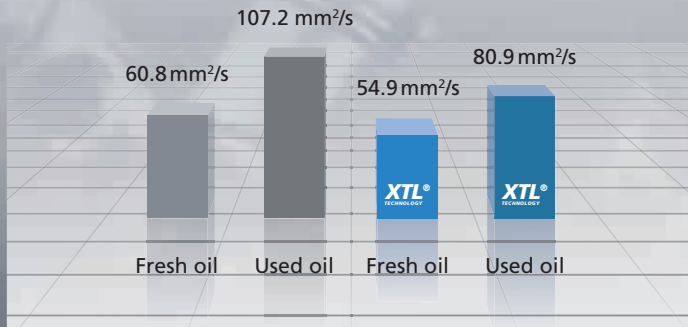


- Conventional, fuel-economy 5W-30 engine oil
- TITAN GT1 PRO FLEX SAE 5W-30 engine oil with XTL® -Technology

Convincing results.

The engine is protected against start-up wear while reducing fuel consumption because the new XTL® engine oils reach vital engine parts more quickly. Not only when the oil is fresh but also over the entire oil change interval. This is confirmed by tests performed on a GM 3800 V6 motor, which clearly have documented that the increase in viscosity from fresh to used oil turns out to be 38 % lower compared to conventional engine oils. This means significantly better protection for a longer period of time.

Viscosity increase after 100 hrs in a 3.8 liter V6 motor (153 KW). XTL® keeps performing. 38 % lower increase in viscosity.



■ Conventional, fuel-economy 5W-30 engine oil
 ■ SAE 5W-30 engine oil with XTL®-Technology

Extremely ageing stable.

The new FUCHS XTL® engine oil technology with its high performance reserves and excellent ageing stability offers maximum protection, reliability and fuel economy.

Over 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 start-up performance: Up to 55 % faster oil circulation* and up to 35 % faster start-ups*
- ▶ Lower fuel consumption: Up to 1.7 % additional reduction in fuel consumption*
- ▶ Lower oil consumption: Up to 18 % lower*
- ▶ Improved ageing stability: 38 % lower viscosity increase. For this reason greater performance and operational reliability over the whole oil change interval.

*Compared to conventional SAE 5W-30 fuel-economy engine oils



START STOP

2

720 km

3016 km 136.9
 +6.5 °C



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.

- + for extreme fuel-economy characteristics and reduced CO₂ emissions
- + excellent cold starting behaviour
- + very fast oil circulation and outstanding performance reserves
- + 1st product acc. to the new BMW LONGLIFE-14 FE+

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.

- + maximum fuel-saving potential
- + excellent cold start-ups
- + outstanding performance reserves

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.

- + best cold start-up characteristics
- + lower fuel and oil consumption
- + improved ageing stability
- + outstanding performance reserves for advanced engines with or without extended service intervals

TITAN
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.

- + maximum fuel-saving potential
- + optimum cold starting
- + lower oil consumption
- + minimized exhaust emissions



Specifications:
ACEA A1/B1

Approvals:
BMW LONGLIFE-14 FE+

FUCHS Recommendations:
TOYOTA
HONDA



Specifications:

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Approvals:

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FUCHS Recommendations:
ACEA C2
API SL
ILSAC GF-4



Specifications:
ACEA C3

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

FUCHS Recommendations:
FIAT 9.55535-S3
FORD M2C917-A



Specifications:
ACEA C2/C3

Approvals:
MB-APPROVAL 229.52

FUCHS Recommendations:

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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 characteristics cold start-up
- + lower fuel and oil consumption
- + improved ageing stability
- + outstanding performance reserves for advanced engines with or without extended service intervals



Specifications:

ACEA C3
API SN/SM

Approvals:

BMW LONGLIFE-04
dexos2TM (GB2C0209075)
MB-APPROVAL 229.51
MB-APPROVAL 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

TITAN
GT1
SAE 5W-40

Premium Performance, fuel-economy engine oil with new XTL®-Technology. Specially developed for vehicles with exhaust after treatment and turbocharger.

- + best cold start-up characteristics
- + lower fuel and oil consumption
- + improved ageing stability
- + outstanding performance reserves for advanced engines with or without extended service intervals



Specifications:

ACEA C3
API SN/SM/CF
FORD M2C917-A

Approvals:

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

FUCHS Recommendations:

FIAT 9.55535-S2

*Between the consecutive editions of this brochure (here: 12/2014) our specifications, approvals and recommendations might be upgraded. You will find the current product profile in our product information sheets.



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

The right high-tech engine oil for every engine!

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.



**The oil of the champions
of the 24h Race 2013
at the Nürburgring**

**2nd Place
24h Race
Nürburgring 2014**

**1st Place
12h Race
Abu Dhabi 2013**

**1st Place
24h Race
Dubai 2012 + 2013**

The information contained in this product information is based on the experience and know-how of FUCHS EUROPE 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. 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 EUROPE 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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Contact:



FUCHS EUROPE SCHMIERSTOFFE GMBH

Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: +49 621 3701-0
Fax: +49 621 3701-570
E-mail: zentrale@fuchs-europe.de
www.fuchs-europe.de

Export Division
Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: +49 621 3701-1703
Fax: +49 621 3701-7719