

SERVICE LUB

SEPTEMBER 2018

SPECIAL: AUTOMOTIVE



PRODUCTS IN THE SPOTLIGHT
LUBRICANTS FOR CARS

OVERVIEW
A PRODUCT FOR EVERY APPLICATION

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Matic DX VI

This lubricant for automatic transmissions stands out from other lubricants for automatic transmissions because of its special anti-friction characteristics. In other words, Matic DX VI guarantees smooth gear changes and control.

The three principle characteristics of Matic DX VI – a high viscosity index, a high oxidation stability, and high wear resistance – give optimum protection to your vehicle's transmission, which increases the working life of your transmission box and your oil.

Opaljet Millennium 3

Opaljet Millennium 3 is a fully synthetic oil that is primarily aimed at 'fuel economy'. This high-grade engine oil can reduce fuel consumption by almost 10%.

Furthermore, this lubricant guarantees full protection of the particulate filter and keeps the engine components clean.

Opaljet Longlife 3

Opaljet Longlife 3 is the top-of-the-range product in the Opaljet range of engine oils by Unil Lubricants. This fully synthetic engine oil has been specially designed to deliver top performance in the latest engines and their accompanying emission reduction systems. Its specific formulation is primarily focused on providing outstanding engine protection, rapid lubrication after cold starts, reduced wear and tear and a longer working life of high performance components, such as turbos and compressors.

Furthermore, Opaljet Longlife 3 is a lubricant with a focus on the environment. It has a low ash level which ensures reduced soot particle deposits and its low phosphorus and sulphur levels are beneficial for the catalytic converters in petrol engines.

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LUBRICANTS FOR CARS
IN THE SPOTLIGHT



Fuel economy due to low viscosity

OEMs are adapting their lubricant requirements ever more rapidly so as to be able to meet the needs of green and fuel-saving alternatives. Thanks to the introduction of the ACEA C5 standard, there will be increasing requirements for low-viscosity engine oils. A lower viscosity means less friction in the engine, and so lower energy loss. In this way, the car's fuel is converted more efficiently into the energy needed to move the car.

Engine oil with a lower viscosity also signifies a thinner lubrication film. In the past, this effectively meant

reduced protection and so more rapid wear of the engine. However, the latest generation of engines has been modified for extremely small material tolerances. The design of the lubricant must continue to be able to offer optimum protection in the more demanding conditions which arise.

Unil Lubricants is ready to move towards greener cars and has added the following FE (Fuel Efficiency) engine oils to its range:

OPALJET ENERGY FE 0W20: VW 508.00/509.00

OPALJET FEV 0W20: Volvo VCC RBS0-2AE

OPALJET FS 0W20: ILSAC GF-5
OPALJET POWERBOOST: Ford WSS-M2C948-B

Fuel economy and LSPI protection

Petrol engines with TDI technology (direct injection) offer improved fuel efficiency compared to other designs. Due to the specific design and being fitted with a turbo, a small TDI engine is able to replace a larger engine with the same power.

A troublesome side-effect of this technology is the occurrence of "Low Speed Pre-Ignition" (LSPI), in other words premature ignition of the air-fuel mixture in the engine. Various factors contribute to LSPI, namely the

engine design, fuel composition and the composition of the lubricant.

That is why the latest generation of oils are thoroughly tested for LSPI protection so they can provide optimum support for the latest engine technologies..

Unil Lubricants has successfully developed two engine oils that offer optimum LSPI protection:

OPALJET LONGLIFE DEX 1.2 FE

OPALJET MILLENIUM 3 5W30 (FOR PSA GROUP)

SAVE FUEL WITH THE NEW FUEL EFFICIENCY ENGINE OILS



FUEL ECONOMY

LUBRICANTS FOR CARS



WINDSCREEN WASHER FLUID

WINDSCREEN ANTIFREEZE is a concentrated windscreen washer with anti-freeze properties. This fluid has been manufactured using various biological raw materials that are diluted with water and it is used in the windscreen washing systems of agricultural vehicles. This product works immediately to clean windows while your crop is not affected.



ENGINE

Every engine needs to be lubricated and these needs vary according to the type of engine. **OPALJET LONG-LIFE 3 5W30** is our most all-round engine oil that can be used for almost all cars and furthermore will provide considerable fuel reduction.

Visit www.unil.com for the engine oil that is specifically suited to your car.



POWER STEERING

GERION EXTRA LDA is a synthetic fluid that is suitable for power steering, shock absorbers and active suspension. LDA has a very broad temperature range, from -40°C to 140°C. Its high thermal stability offers significant resistance against shearing.



BRAKE FLUID

The power of the brake or clutch pedal is transmitted to the brake or clutch through the brake fluid. In other words, this particular oil has a great responsibility so it is important to use the right fluid. **BRAKE FLUID DOT 5.1** is a synthetic lubricant that is suitable for both disc and drum brakes and is characterised by its stable fluidity at high and low temperatures.



COOLING FLUID

PARAGEL LL is a high-quality, ready-to-use antifreeze based on monoethylene glycol (MEG) type G12+ (protection against frost to -40°C). Practical tests on an very extensive fleet demonstrate that it provides high-quality protection to cars and vans for at least 250,000 km.



TRANSMISSION

Unil Lubricants has a wider range of transmission oils. In the **MATIC** range you can find a product suitable for any automatic gearbox. For all transmission oils suitable for manual gearboxes, you can rely on our extensive range of **GERION** lubricants.

You can find the transmission oil that is most suitable for your car at www.unil.com.

Opaljet Energy 3	0W30 5W30	ACEA C2/C3-16 • API CF/SM • BMW Longlife 04 • FIAT 9.55535-S1/9.55535-S2 • MB 229.51 • PORSCHE C 30 • VW 504.00/507.00	Opaljet Energy 3 5W30 has been specially developed to meet the most stringent requirements of modern engines for cars, under all usage conditions. This engine oil guarantees outstanding protection and extends the working life of the most powerful engines, whether these are petrol, diesel, turbo diesel or multi-valve systems.
	5W30	ACEA C2-12/C3-16 • API CF/SN • BMW Longlife 01/04 • DEXOS 2 • Ford WSS M2C 913B • FIAT 9.55535-S1/9.55535-S2 • MB 229.31/229.5/229.51/229.52 • PSA B 71 2290 • VW 502.00/505.00/ 505.01 • Longlife-04	Opaljet Energy 3 5W30 has been specially developed to meet the most stringent requirements of modern engines for cars, under all usage conditions, and has been DEXOS 2 approved. This engine oil guarantees outstanding protection and extends the working life of the most powerful engines, whether these are petrol, diesel, turbo diesel or multi-valve systems. Opaljet Longlife 3 5W30 is particularly recommended for cars fitted with a DPF (Diesel Particulate Filter) (ACEA C2 standard).
	5W30	API SN Resource Conserving • ILSAC GF-5 • GM DEXOS 1 (TM) GEN 2 • CHRYSLER MS 6395 • Ford M2C946-A	The high-performance engine oil for the latest generation of engines that require Dexos 1 gen 2 engine oils. OPALJET LONGLIFE DEX 1.2 FE is a specially composed synthetic engine oil that is suitable for petrol engines in cars which require the GM dexos 1 gen 2 specification.
	5W30	ACEA A/B5 • API SM/CF • Ford WSS M2C 913A/913B/ 913C/913D/934B • Jaguar STJLR 03.5003 • MAZDA	Opaljet Power 5W30 has been specially developed to meet the most stringent requirements of modern engines for cars, under all usage conditions. This engine oil guarantees outstanding protection and extends the working life of the most powerful engines, whether these are petrol, diesel, turbo diesel or multi-valve systems. Opaljet Power 5W30 is particularly recommended for cars fitted with a DPF (Diesel Particulate Filter).
	5W20	ACEA C5-16/A1/B1-12 • API CF/SN • Ford WSS- M2C948-B • STJLR.03.5004	Opaljet Powerboost 5W20 is a 100% synthetic engine oil that was originally developed for the Ford 1.0l 3 cylinder Ecoboost petrol engine (which can be found in the Ford Fiesta, Focus, B-Max, C-Max). However, it can now also be used in the latest engines by Chevrolet, Honda and Toyota (in accordance with manufacturer's instructions). This top technology engine oil has a lower friction coefficient and as a result considerable fuel-saving properties thanks to its lower viscosity and high lubricating capacity. The high-quality formulation of Opaljet Powerboost guarantees the cleanliness of all engine components and avoids the formation of deposits at high and low temperatures, whichever fuel is used.
Opaljet Powerboost	0W40	ACEA A3/B4-12 • API SN • MB 229.3/229.5 • BMW Longlife 01 • PORSCHE A 40 • RN700/RN710 • VW 502.00/505.00 • Ford M2C-937-A	A modern, synthetic, universal engine oil based on specially selected synthetic base oils with a high viscosity index, to which advanced additives have been added. Suitable for petrol and diesel engines in cars and vans, with or without turbo chargers, which require the very latest specifications.
	5W50	ACEA A3/B4-12 • API SL/CF • MB 229.1 • VW 502.00/505.00	GI-V9 is an extremely high-performance multigrade 5W50 lubricating oil that provides high anti-wear protection as well reducing internal friction due to its high viscosity and temperature range. GI-V9 is particularly recommend for lubricating the latest cars (petrol or diesel, atmospheric, turbo-charged or multi-valve engines) and for use in all conditions, whether competitions, city traffic, motorways or general driving. GI-V9 is a high-technology lubricant, that satisfies most demanding motorists.
GI-V9	10W50	ACEA A3/B4-12 • API SL/CF • MB 229.1 • VW 505.00	GI-V7 has been specifically developed to meet the most exacting requirements of petrol and diesel engines in cars, particularly turbo-charged and multi-valve engines.
	10W60	ACEA A3/B4-12/C3-12 • FERRARI • BMW • ALFA ROMEO • OPEL	OPALJET COMPETITION 10W60 is the first commercially available engine oil based on nanoparticles. These nanoparticles are made from fullerenes. Fullerenes are molecules composed of carbon and have the shape of hollow spheres. They look like microscopic footballs and fill the micro tears and irregularities in metal surfaces. This means that they reduce the friction coefficient to zero! The research into fullerenes was awarded the Noble Prize for Chemistry. Since these nanoparticles are so small, they remain in suspension in the oil. They do not settle and are not filtered out. Fullerenes are dark grey or purple in colour. An engine oil using these nanoparticles is dark coloured (almost black like carbon). OPALJET COMPETITION 10W60 has the highest level of performance and meets ACEA C3/A3/B4 ACEA and API SM/CF.
Opaljet Competition			

Opaljet Lube P	5W30	ACEA A1/A5/B1/B5/ C2-08 • API SN/CF • FIAT 9.55535-S1/G1 • IVECO 18-1811 SC1 • PSA B 71 2290-12 • RN700 • VW 505.00	Opaljet Lube P 5W30 is a 100% synthetic engine oil that has been specifically developed for the PSA group. The focus here is on fuel economy (up to 8% for some PSA models), extended oil-change intervals and guaranteed protection of the DPF (Diesel Particulate Filter). Opaljet Lube P has been formulated so as to avoid deposits in the engine. This is combined with the ultra-stable behaviour of the lubrication film which enables higher engine performance to be obtained. Opaljet Lube P is an ideal engine oil for high-performance engines fitted with START-STOP systems.
	0W20	ACEA C15-16 • Volvo VCC RBSO-2AE	Opaljet FEV 0W20 is a 100% synthetic engine oil that is primarily used in the latest fuel-efficient engines. The specific composition of this engine oil is suitable for petrol and diesel engines in Volvo cars, and Volvo requires a SAE 0W20 with VCC RBSO-2AE specification. Opaljet FEV 0W20 also guarantees an extremely smooth cold start, even at low external temperatures, and a safe lubrication film at operating temperatures.
Opaljet FEV			
Opaljet Energy FE	0W20	ACEA C5 approval pending • VW 508.00/509.00	Fuel-efficient engine oil with a special composition that is suitable for petrol and diesel engines in cars and vans, with or without turbo chargers, which allows extended oil-change intervals. This engine oil also contributes towards extending the working life of three-way catalytic converters and particulate filters. This oil can only be used in engines which are required to use oil with the VW 508.00/509.00 specification.
	5W30	ACEA C2-12/C3-12 • API CF/SM	OPALJET ENERGY 3 X-TRA is a synthetic Mid-SAPS 5W30 oil for petrol and diesel engines ranging from EURO 2 to EURO 5 engine models. ENERGY 3 X-TRA offers optimum protection for emission treatment systems such as EGR and DPF (Diesel Particulate Filter) as has been formulated from carefully selected base oils and a specifically developed package of additives. OPALJET ENERGY 3 X-TRA achieves a ACEA C2/C3 classification due to this high quality composition, which is also comparable and equivalent to level VW 504.00 / 507.00, MB 229.51 and BMW Longlife 04.
Opaljet Energy 3 X-Tra			
Opaljet 24 S X-Tra	5W40	ACEA A3/B4-04 • API CF/ SN • BMW Longlife 01 • FIAT 9.55535-H2/9.55535- M2/9.55535- N2/9.55535-Z2 • GM-LL A-025/B-025 • MB 229.3 • PORSCHE A 40 • PSA B 71 2296 • VW 502.00/505.00 • RN700/RN710	Opaljet 24S X-TRA 5W40 is a 100% synthetic engine oil that is specially tailored to both petrol and diesel cars. (without DPF) Rapid lubrication at cold start, perfect performance at high temperatures, ideal lubrication film due to its good thermal stability and oxidation resistance guarantee reduced wear and tear and a longer working life of the engine and high-performance components such as turbos and compressors. Opaljet 24S X-TRA is the perfect partner for engines that operate under demanding conditions, including commercial vehicles such as Mercedes Vito, Viano, Sprinter under MB 229.3 or Porsche sports cars under Porsche A40.
	5W30	ACEA C2-12/C3-12 • API CF/ SN • BMW Longlife 01/04 • DEXOS 2 • Ford WSS M2C 913B • FIAT 9.55535-S1/9.55535-S2 • MB 229.31/229.5/229.51/229.52 • PSA B 71 2290 • VW 502.00/505.00/505.01	Opaljet Longlife 3 X-TRA 5W30 is a 100% synthetic engine oil that has been developed to provide top performance in the latest engines and their accompanying emission reduction systems. The specific formulation of Opaljet Longlife 3 X-TRA is primarily geared towards outstanding engine protection. Rapid lubrication at cold start, perfect performance at high temperatures, an ideal lubrication film due to its good thermal stability and oxidation resistance guarantee reduced wear and tear and a longer working life of the engine and high-performance components such as turbos and compressors. Opaljet Longlife 3 X-TRA ultimately leads to higher engine performance and permits considerable fuel savings.
Opaljet Longlife 3 X-Tra			
Europa	10W40 15W40	10W40: ACEA E2-96 Issue 5 (2007) • ACEA B2-02/ A2-02 • API CG-4/SJ • MACK EO-L+ • MAN 271 • MB 228.1 • MTU Category 1 • Volvo VDS 15W40: /	Europa is suitable for lubricating four-stroke petrol and diesel engines in cars and vans.
	0W20	ACEA A1/B1-12 • API CF/ SM • ILSAC GF-5	Opaljet FS 0W20 is a 100% synthetic engine oil that is primarily used in the latest fuel-efficient engines and in cars in which a traditional combustion engine and an alternative fuel source work together, such as hybrid vehicles. Opaljet FS is an ideal partner for among other things the latest Mazda-SKYACTIV engine technology (Skyactiv-G = petrol engine with exceptionally high compression ratio, Skyactiv-D = diesel engine with a very low compression ratio). Other makes such as Honda (with the Civic IMA, CR-Z or Insight), Toyota and Lexus require a 0W20 ACEA A1/B1 for various models and so can also be lubricated using Opaljet FS.
Opaljet FS			
Opaljet Dream 2	0W30	ACEA A5/B5-12/C2-12 • <i>PSA B 71 2312</i>	Opaljet Dream 2 0W30 is a 100% synthetic engine oil that is primarily geared to providing outstanding engine protection due to its specific formulation. Its key features are the cleanliness of all engine components (such as pistons and valves) and the avoidance of deposits in the engine. Opaljet Dream 2 is perfectly suitable for EURO 5 and EURO 6 engines (for example, PSA group engines from 2012 onwards) with emission reduction systems. (EGR, DPF, SCR) The 0W30 viscosity remains guaranteed throughout the working life of the lubricant due to its shear stability and extremely low volatility.

Opaljet Supreme

5W30 ACEA A1/B1-12/A5/B5-12/
C1-12 • Ford WSS M2C
913C/934B • JASO DL-1 •
MAZDA • Renault RN0720
• STJLR.03.5005

Opaljet Supreme is a 100% synthetic engine oil of ACEA C1 quality. This is the most stringent standard for Low SAPS oils. Since Opaljet Supreme has the lowest possible levels of sulphur, phosphorus and sulphated ashes, it is guaranteed not to block the DPF (Diesel Particulate Filter). Diesel engines that are mainly deployed or used for short journeys occasionally experience regeneration problems (cleaning problems) in the DPF and so are particularly sensitive to 'blocking' which leads to reduced power or extreme running of the car. Opaljet Supreme offers an answer and avoids these types of situations.

Opaljet Millennium 3

5W30 ACEA A1/B1/A5/B5/C2-12 • API
CF/SN • FIAT 9.55535-S1/G1 •
IVECO 18-1811 SC1 • **PSA B 71
2290**

OPALJET MILLENNIUM 3 is a premium oil for lower fuel consumption (up to 8% on some PSA models), and longer oil-change intervals. This oil guarantees full protection of the exhaust treatment systems (soot filters in particular). OPALJET MILLENNIUM 3 can be mixed with all engine oils, whether these are synthetic or mineral oils, but its high performance and exceptional characteristics are only guaranteed if the oil is used unmixed.

Opaljet X-Treme

5W30 ACEA C16/C3-16/A3/
B4-16/C4 • Chrys-
ler MS 11106 • MB
226.51/229.51 • Renault
RN0720

Opaljet X-Treme 5W30 is a 100% synthetic engine oil that has been specifically developed for Renault engines with a Diesel Particulate Filter after November 2007. This oil has a LOW SAPS quality and falls within the ACEA C4 standard (Low Saps = low sulphated ash content, and low sulphur and phosphorus content). Opaljet X-Treme is also used in the Mercedes A and B classes with a 160 CDI engine. This special oil has a low volatility, shear stability and oxidises 6 times more slowly thanks to its special additives. It makes longer oil-change intervals of up to 30,000 km perfectly feasible.

Opaljet Futura

5W40 ACEA C3-16/C2-12 • API
SN/CF • BMW Longlife
04 • DEXOS 2 • FIAT
9.55535-S2 • Ford M2C
917A • MB 229.31 • POR-
SCHE A 40 • RENAULT
RN0700/RN0710 • VW
502.00/505.00/505.01

Opaljet Futura is a multigrade engine oil with an extremely high level of performance. The product has been specially tailored for lubricating the latest generation of cars with turbo-diesel engines fitted with an injection pump. Opaljet Futura extends the working life of the treatment systems (including the soot filters).

Opaljet 24 S

5W40 ACEA A3/B4-04 • API CF/
SN • BMW Longlife 01 •
FIAT 9.55535-H2/9.55535-
M2/9.55535-Z2 • GM-LL
A-025/B-025 • MB 229.3 •
PORSCHE A 40 • PSA B 71
2296 • VW 502.00/505.00
• RN700/RN710

Opaljet 24S 5W40 is a 100% synthetic oil, that has been specially developed to meet the most stringent demands of current cars, under all usage conditions (competitions, traffic jams, roads and motorways, city traffic). This product guarantees outstanding protection and extends the working life of the most powerful engines, namely petrol, diesel, turbo diesel or multi-valve systems.

Opaljet 16 S

10W40 ACEA A3/B3 - 12 • API CF/
SM • MB 229.1 • RN 0700
• VW 501.01/505.00

Opaljet 16S is a multigrade engine oil that offers an extremely high level of performance. This lubricant is a product that will meet all expectations of the most powerful engines such as petrol, diesel, turbo diesel or engines with multi-valve systems!

Multi S

5W40 ACEA A3/B4-12 • API
CF/SL • MB 229.1 • VW
501.01/505.00

A modern, synthetic, universal engine oil based on specially selected synthetic base oils with a high viscosity index, to which advanced additives have been added. Suitable for petrol and diesel engines in cars and vans, with or without turbochargers, which require the very latest specifications.

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TRADE FAIR NEWS

AUTOMECHANIKA FRANKFURT 2018

FROM 11 TO 15 SEPTEMBER,
HALL 9.1, STAND D70,
MESSE FRANKFURT



In line with tradition, Unil Lubricants will be attending the Automechanika trade fair in Frankfurt in hall 9.1. You can come and visit us from the 11th to the 15th of September. We look forward to meeting you at stand D70

Automechanika is the world's largest trade fair for the automotive services sector. It is held every two years and is currently in its 25th edition. 150,000 visitors from over 170 countries visit each edition to discover the latest offerings from almost 5,000 stand holders.

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