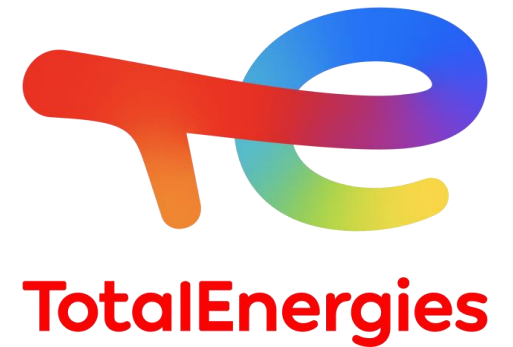


QUARTZ
ENGINE OIL

Quartz Xtra, the
(r)evolutionary
range



TotalEnergies



Contents

1. TotalEnergies, a broad energy company

- TotalEnergies company, a leading global energy player
- TotalEnergies Lubrificants, a progress accelerator

2. Quartz engine oil

3. Quartz Xtra series

- Launch context, new market trends
- State-of-the-art technology: Eco-Science Technology
- Product range presentation

4. Quartz Xtra, an innovative range (right down to the packaging)

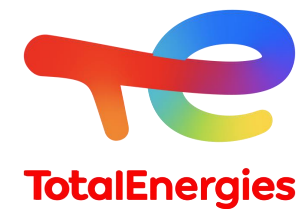
- Ecosolutions Label by TotalEnergies
- Introduction of an innovative packaging

5. Marketing and communication tools

- Quartz Xtra, revolutionary right down to the packaging
- Quartz Xtra, pushing fuel economy further
- Quartz Xtra, the perfect fit for hybrid engines.

6. Back up

- Competitive benchmark
- Car manufacturer communication

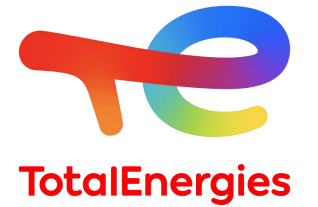


01.

TotalEnergies, a broad energy company

- TotalEnergies company, a leading global energy player
- TotalEnergies Lubrificants, a progress accelerator

TotalEnergies, a broad energy company



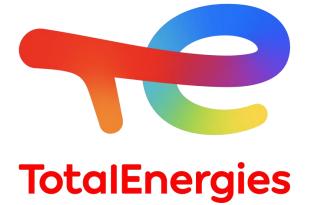
Energy is reinventing itself,
Total is becoming TotalEnergies.

“Energy is life. We all need it and it’s a source of progress. So today, to contribute to the sustainable development of the planet facing the climate challenge, we are moving forward, together, towards new energies. Energy is reinventing itself, and this energy journey is ours. Our ambition is to be a world-class player in the energy transition. That is why Total is transforming and becoming TotalEnergies,” declared Patrick Pouyanné, Chairman and Chief Executive Officer of TotalEnergies.

This new name and new visual identity embody the course TotalEnergies has resolutely charted for itself: that of a broad energy company committed to producing and providing energies that are ever more affordable, reliable and clean.



TotalEnergies, a broad energy company



TotalEnergies company

TotalEnergies is a **broad energy company** that produces and markets energies on a global scale: oil and biofuels, natural gas and green gases, renewables and electricity.

Our 105,000 employees are committed to energy that is ever more affordable, clean, reliable and accessible to as many people as possible. Active in more than 130 countries, TotalEnergies puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.

TotalEnergies Lubrifiants

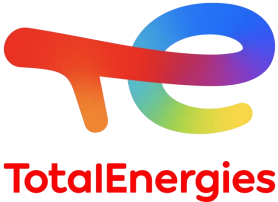
TotalEnergies Lubrifiants is a **leading global manufacturer and marketer of lubricants**. It has 42 production plants worldwide, more than 5,800 employees and distributes its products in 150 countries. The Lubrifiants activity of TotalEnergies offers innovative, efficient and environmentally responsible products and services developed at its R&D centers by more than 130 researchers. TotalEnergies is a partner of choice for the automotive, industrial and marine markets.

TotalEnergies Lubrifiants, the progress accelerator.

02.

Quartz, engine oil

Quartz engine oil



Since more than 60 years now, TotalEnergies Lubrificants' engineers have designed formulas with unprecedented molecular interactions. Quartz is the result of this experience. Each product in the range contains hyperactive molecules whose specific interaction create the desired effect.

Quartz engine oils not only enhance engine cleanliness and protection but also improve fuel efficiency when dedicated "Fuel Economy" products are used.

Innovating and thriving in a changing world, TotalEnergies is committed to better energy. The Quartz range engineers pursued this aim by crafting the highest quality with strong focus on Fuel Economy performance and efficiency in order to decrease our carbon footprint.

Consequently, the Quartz brand is tailored to meet all customer needs. Quartz series are empowered with the newest technologies. Thanks to a long history of bold R&D, it exceeds even the most demanding needs of car manufacturers.

Quartz, Keep your engine younger for longer.

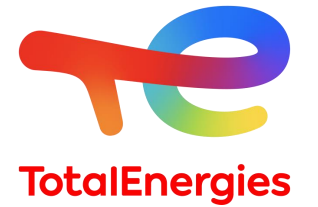


03.

Quartz Xtra series

- Launch context, new market trends
- State-of-the-art technology: Eco-Science Technology
- Product range presentation

Launch context, new market trends



QUARTZ
ENGINE OIL

In the race to cut carbon dioxide emissions and boost fuel efficiency, we can observe 2 main trends amongst vehicle manufacturers in regard to the vehicles with internal combustion engines:

1

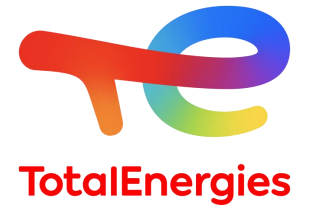
**Downsized engines
with turbocharger**

2

Vehicle hybridization



Launch context, new market trends



QUARTZ
ENGINE OIL



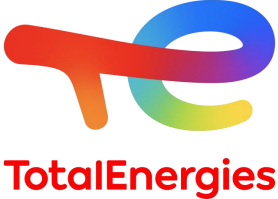
1 TREND

Downsized engines with turbocharger

Downsizing is a simple concept: replace a larger engine with a smaller version, with lower displacement. The downsized engines have fewer, smaller cylinders, so the volume swept by pistons as they pump up and down inside is reduced. This reduces friction, thermal losses and the mass moved, boosting Fuel Economy and cutting carbon dioxide emissions.

The challenge here is that these engines provide optimal performance only when combined with engine oils formulated to be the best fit to those engines.

Launch context, new market trends

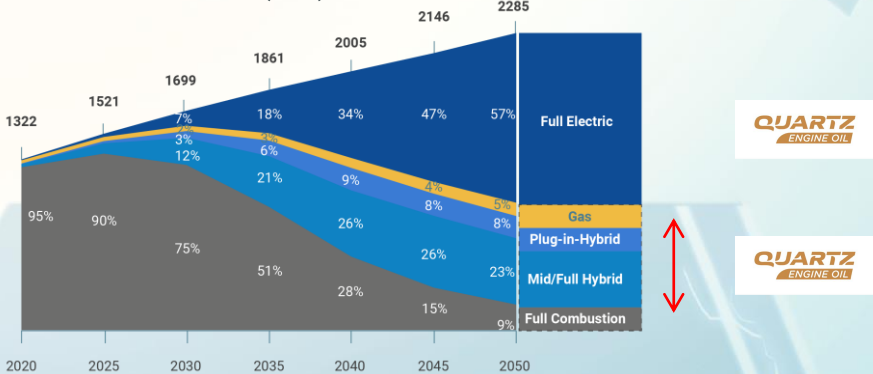


2 TREND

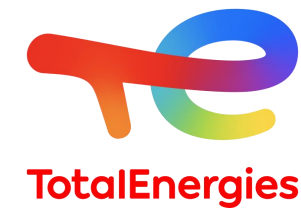
Vehicle hybridization

Hybridization is a growing concept in all the markets worldwide and constitutes a major step towards full electric vehicles (EV). According to TotalEnergies's experts, hybrid vehicles will represent up to **35%** of the light vehicle park in 2040.

LIGHT VEHICLE PARK (in M)



Launch context, new market trends



QUARTZ
ENGINE OIL



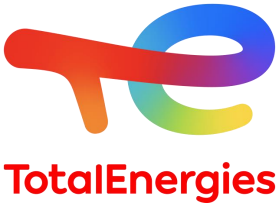
2 TREND

Vehicle hybridization

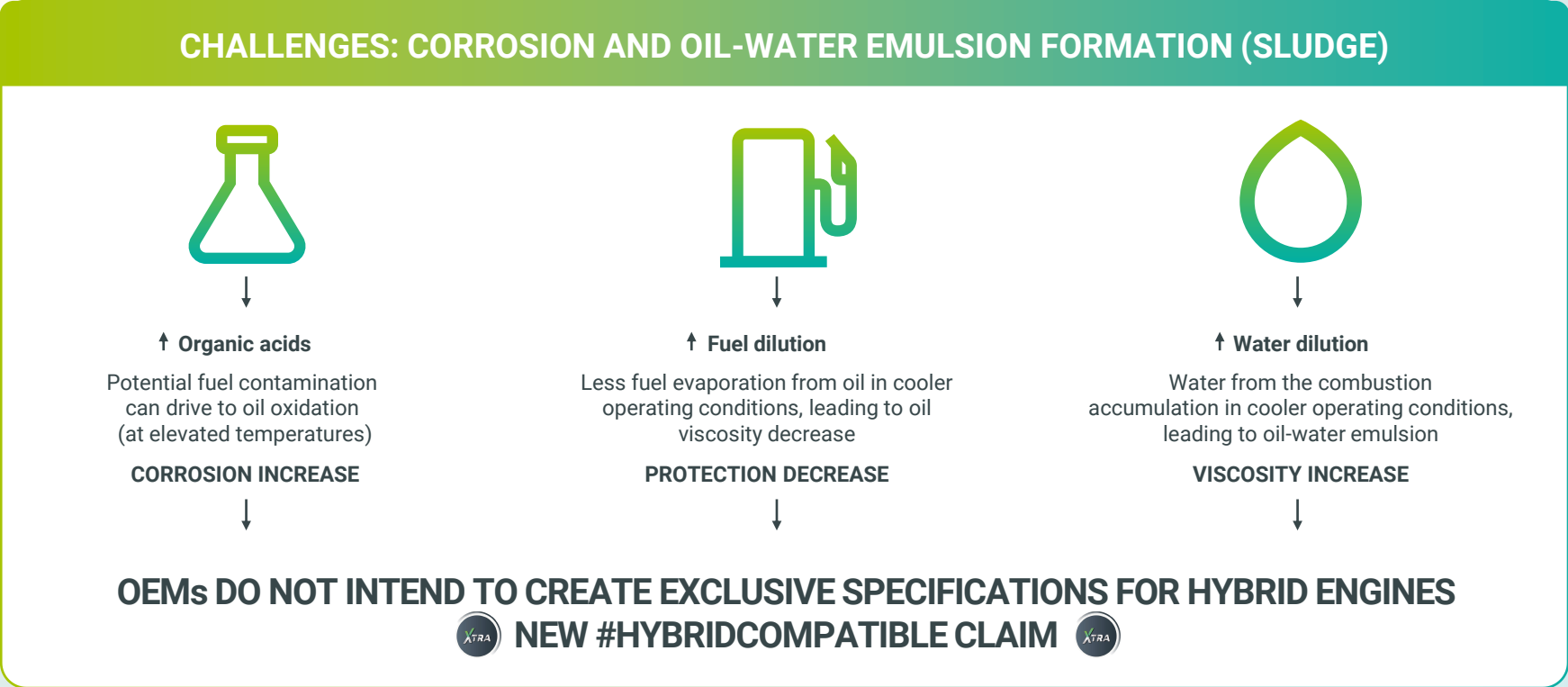
Hybrid vehicles utilize the benefits of electric motors and combustion engines for a more efficient car with less fuel consumption and, consequently, with less gas emissions from the combustion. Today, we differentiate 3 types of hybrid vehicles: Mild hybrids (*Mild HEV*), Full hybrids (*Full HEV*) and Plug-in hybrids (*PHEV*).

The challenge with optimal performance of hybrid vehicles is similar: it is only possible when such configuration is combined with combined with appropriate, fitting engine oils.

Launch context, new market trends

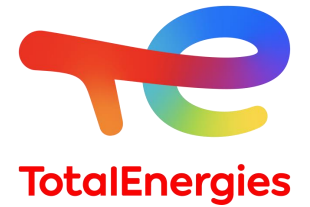


HYBRID VEHICLES OPERATE AT LOWER TEMPERATURES ON AVERAGE THAN 100% THERMIC VEHICLES (ICE)



Source: Adapted from a Lubrizol technical presentation.

State-of-the-art technology: Eco-Science Technology



Quartz Xtra range relies on the newest Eco-Science Technology.

The latest and innovative Eco-Science Technology improves engine life and efficiency, it optimises engine care and lowers fuel consumption.

Quartz engine oils with Eco-Science Technology not only remove impurities and protect engines, but also provide additional benefits such as significant Fuel Economy and optimal engine care for maximized performance.

Quartz Xtra with Eco-Science Technology is the first choice to answer all consumer needs.

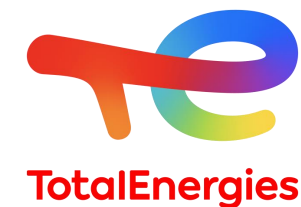
Up to **4.01%*** Fuel Economy,
Meaning up to **33%*** improved Fuel Economy
compared to industry limits.

Up to **15X**** stronger oil stability compared
to industry limits.

* Based on the ACEA M111 Fuel Economy test. Result for Quartz Ineo Xtra Dynamics 0W-20 compared to the industry reference as defined by the European Automobile Manufacturers' Association (ACEA).

** Based on the API Seq IIH High Temperature oil thickening test. Result for Quartz Ineo Xtra V Drive 0W 20 compared to the industry reference as defined by the American Petroleum Institute (API).

Quartz Xtra product range presentation



Quartz Xtra range is characterized by its fluidity and exceptional Fuel Economy properties which makes it a perfect fit for the latest and the most stringent engines.

The range is composed of two sub-ranges:

- TOTAL QUARTZ 9000 XTRA, adapted to vehicles without post-treatment systems,
- TOTAL QUARTZ INEO XTRA adapted to those with post-treatment systems.

**See the base oil technology document for more information on TotalEnergies' technology definition.*

Quartz Xtra range prerequisites:



Xtra Fuel Economy performance



100% Hybrid Compatible



0W-20 or more fluid grade

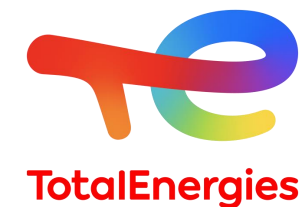


Advanced Synthetic Technology*



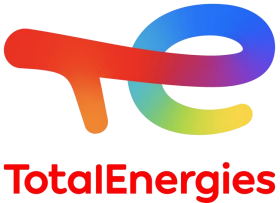
OEM Claims

Quartz Xtra product range presentation



PRODUCT RANGE		
Commercial Name	Viscosity	Norms and specs
Quartz Ineo Xtra Dynamics	0W-20	ACEA C5; API SN-RC; ILSAC GF-5 Aston Martin Twin Turbo V12 engines: service fill approved; BMW LL-17 FE+ (backward compatible BMW LL-14FE+). Ford WSS-M2C952-A1 (level).
Quartz Ineo Xtra EC6	NEW! 0W-20	ACEA C6, C5; API SP-RC; ILSAC GF-6A MB-Approval 229.72 (backward compatible 229.71); Opel/Vauxhall OV 040 1547-A20; Ford WSS-M2C947-B1; Ford WSS-M2C962-A1; STJLR 03.5006; Volvo VCC RBS0-2AE Fiat 9.55535-GSX (level); Chrysler MS-12145 (level)
Quartz Ineo Xtra FDE	NEW! 0W-20	ACEA C6, C5; API SP; ILSAC GF-6A dexosD™; MB-Approval 229.71; Opel/Vauxhall OV 040 1547-A20; Ford WSS-M2C952-A1; STJLR 03-5006
Quartz Xtra First	0W-20	ACEA C5, PSA B71 2010, Fiat 9.55535-DM1 (level), Ford WSS-M2C952-A1
Quartz Ineo Xtra HKR C5	NEW! 0W-20	API SP, ILSAC GF-6A Recommended by Kia Motors
Quartz Ineo Xtra Long Life	0W-20	ACEA C5, API SN Plus Volkswagen VW 508.00/509.00, PORSCHE C20
Quartz Ineo Xtra V-Drive	0W-20	ACEA C5, API SN, Volvo RBS0-2AE
Quartz Ineo Xtra C5	UPGRADE 0W-20	ACEA C5, MB-Approval 229.71 Jaguar Land Rover STJLR.51.5122
Quartz 9000 Xtra Future FGC	0W-20	API SP, ILSAC GF-6A, GM Dexos1™Mgen2, Ford WSS-M2C962-A1
Quartz 9000 Xtra Future XT	0W-20	API SP, ILSAC GF-6A, Ford WSS-M2C962-A1
Quartz 9000 Xtra Hkr Gf6a	NEW! 0W-20	API SP, ILSAC GF-6A Recommended by Kia Motors
Quartz 9000 Xtra Future XT	0W-16	API SP-RC, ILSAC GF-6A Suitable for Toyota, Honda, Nissan, Mitsubishi, Suzuki, Mazda
Quartz 9000 Xtra	NEW! 0W-8	Jaso GLV-1, Suitable for Toyota, Mazda, Nissan, Mitsubishi

Quartz Xtra product range presentation

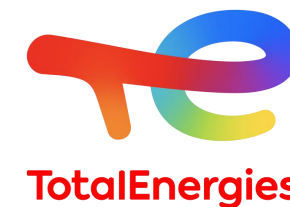


04.

Quartz Xtra, an innovative range (right down to the packaging)

- Ecosolutions label by TotalEnergies
- Introduction of an innovative packaging

Quartz Xtra range and Ecosolutions label by TotalEnergies



eco
solutions

What is Ecosolutions label?

Ecosolutions is a label that illustrates TotalEnergies' commitment to engineer eco-efficient solutions for its clients, in a continuous improvement process.

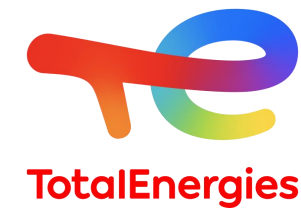
This label attests to a better environmental or health eco-efficiency of the labelled products and services, compared to market standards. This eco-efficiency is evaluated by a rigorous process, verified by an independent expert firm.

Quartz Xtra and Ecosolutions label:

62% of the products in the Quartz Xtra range carry the Ecosolutions label and the rest is planned within a short time frame.

Launching this range will further diversify our product portfolio and demonstrate TotalEnergies's commitment to act as a responsible energy major.

Introduction of an innovative packaging



TotalEnergies Lubrificants is thriving in a changing world and is introducing a breakthrough packaging innovation:

**A NEW BOTTLE MADE WITH
50% RECYCLED PLASTIC
100% RECYCLABLE**

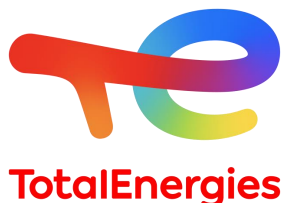
For all the Quartz Ineo Xtra
and Quartz 9000 Xtra products made in Europe.



**Bottle made with 50% recycled plastic and 100% recyclable; cap excluded.*

Introduction of an innovative packaging

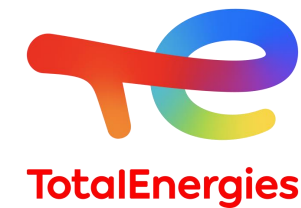
– New label design



**(when the specifications of this engine oil are requested by the car manufacturer).*

Introduction of an innovative packaging

– Legal compliance



A large regulatory analysis has been conducted in 22 countries in order to validate the compliance of our new allegations regarding recycling:

- . Front Label "50% recycled plastic / 100% recyclable*"
- . Back Label "*Bottle made with 50% recycled plastic and 100% recyclable"

Allegations are either 100% compliant or compliant under conditions*.

Scope of the analysis: Belgium; Brazil*; Canada*; China*; Denmark; Finland; France; Germany; Italy; Japan*; Poland; Portugal; Qatar; Russian Fed.; Singapore*; Spain; Sweden; The Netherlands; Turkey; Utd.Arab Emir*; United Kingdom; USA*.

For all the other countries, a local analysis shall be conducted by the affiliate.

**Compliant under conditions: Legal analysis viable if needed.*

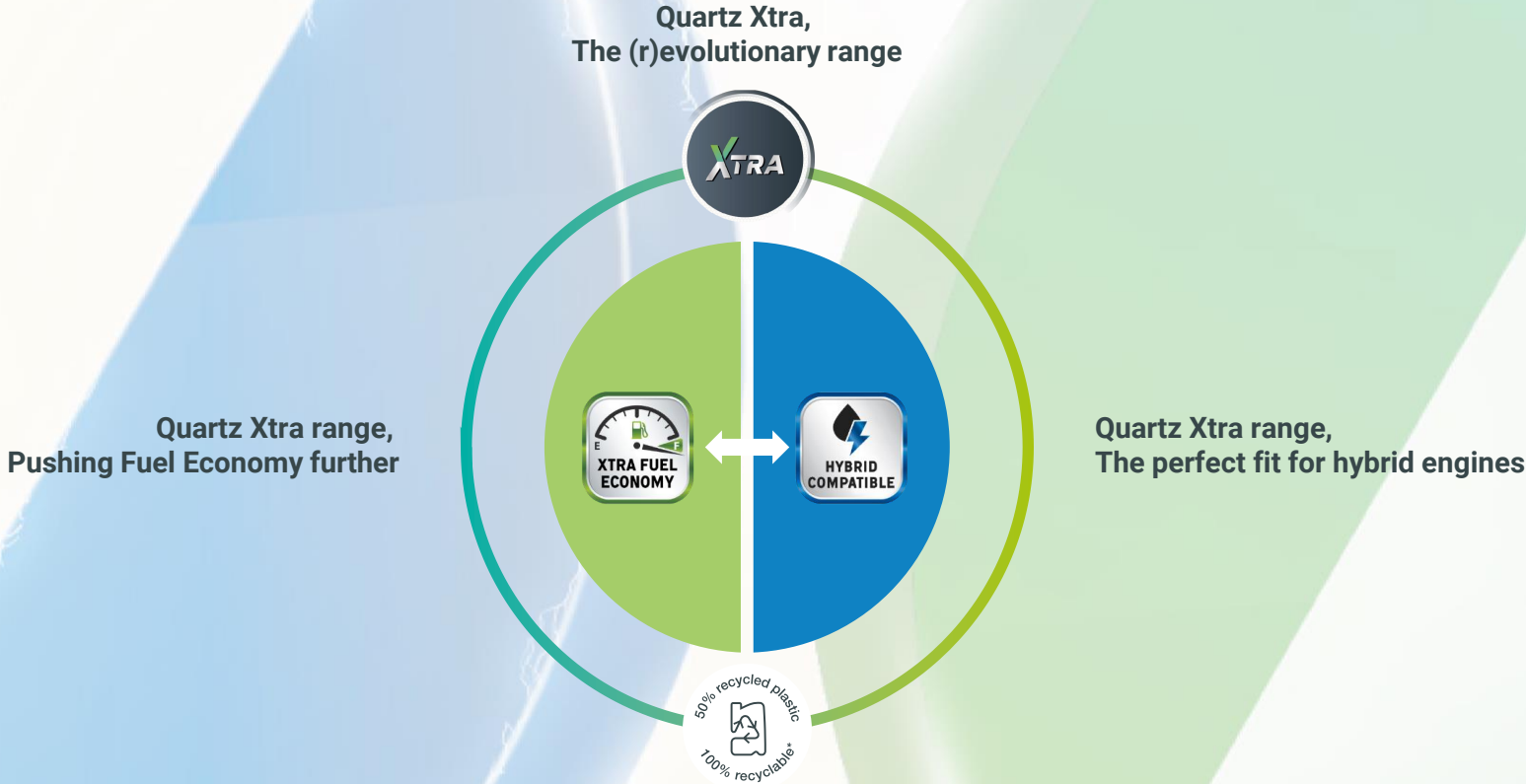
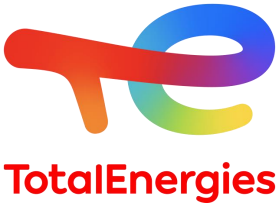


05.

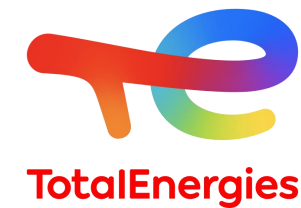
Marketing and communication tools

- Quartz Xtra, revolutionary right down to the packaging
- Quartz Xtra, pushing fuel economy further
- Quartz Xtra, the perfect fit for hybrid engines

Marketing and communication tools



Quartz Xtra, revolutionary right down to the packaging



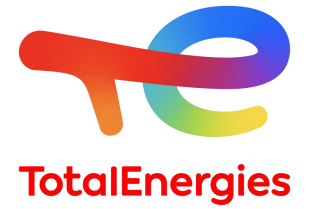
50% recycled plastic



100% recyclable*

The central graphic features a recycling symbol (three arrows forming a triangle) inside a square frame. The text '50% recycled plastic' is arched above the symbol, and '100% recyclable*' is arched below it. The background consists of abstract, overlapping shapes in shades of blue and green.

Quartz Xtra, revolutionary right down to the packaging



Headline Recycling

New recycling symbol

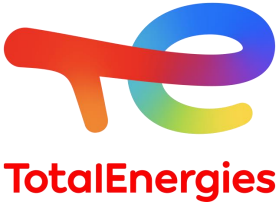
The advertisement features a central image of a Quartz Xtra engine oil bottle. The top section has a green background with the Quartz logo and the headline 'Quartz Xtra, the (r)evolutionary range right down to the packaging'. A circular graphic indicates '50% recycled plastic' and '100% recyclable*'. The bottom section has a white background with the TotalEnergies logo and body copy text.

X Reflection

Recyclable illustration

Body copy

Quartz Xtra, revolutionary right down to the packaging



QUARTZ ENGINE OIL

Quartz Xtra, the (r)evolutionary range right down to the packaging

50% recycled plastic
100% recyclable*

5L

Quartz Xtra, the (r)evolutionary range.

TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. *In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.

lubricants.totalenergies.com

KV

QUARTZ ENGINE OIL

Quartz Xtra, the (r)evolutionary range right down to the packaging

50% recycled plastic
100% recyclable*

5L

Quartz Xtra, the (r)evolutionary range.

TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. *In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.

lubricants.totalenergies.com

Leaflet

QUARTZ ENGINE OIL

TotalEnergies Lubrificants introduces an innovative bottle composed of 50% recycled plastic and 100% recyclable.

Ahead of its time through smart design

With Quartz Xtra range, we aim to reduce the use of plastic by using better alternatives meaning recycled content and recyclable plastics. HDPE (High-density polyethylene) is the most common type of plastic with a high **strength-to-density ratio**. Generally used to make different types of bottles and containers, HDPE is also the main component of our cans and lubricants.

Becoming the responsible energy major

With the Company's objective of becoming the responsible energy major of its era in mind, TotalEnergies Lubrificants is committed to using more sustainable plastic for HDPE bottles of lubricants, in order to reduce the use of virgin plastic and to support the creation of a **circular economy for plastic**.

Quartz Ineo Xtra and Quartz 9000 Xtra subranges

Both made in Europe, these ranges introduce innovative packaging designed with **50% recycled plastic**. This initiative will act as a catalyst to increase the number of recycled items in our products portfolio.

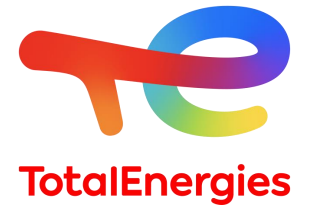
Empowered with the latest recycled and recyclable bottle

Launching this new Quartz Xtra bottle is an essential step towards creating a true circular economy for plastic packaging. This introduction of recycled plastic drives a **reduction of virgin plastic** creating a **virtuous circle**.

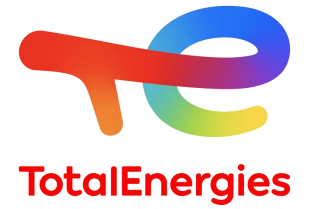
These HDPE bottles can be 100% recycled many times and further processed under controlled conditions. Waste materials are recycled into **secondary raw materials** without changing the basic structure of the material. The recycled resins come from a recycling unit where the waste is grinded, sorted and transformed into platinum granules (recycled plastic). These recycled granules represent 50% of our innovative packaging.

Quartz Xtra, the (r)evolutionary range up to the packaging!

Quartz Xtra, pushing fuel economy further



Quartz Xtra, pushing fuel economy further



Headline
Fuel Economy

New icons
Fuel Economy
and Hybrid
Compatible

The advertisement features a central image of a Quartz Xtra engine oil bottle and a futuristic robot. The headline reads "Quartz Xtra, range, pushing fuel economy further". Below the headline are two icons: "XTRA FUEL ECONOMY" and "HYBRID COMPATIBLE". The body copy describes the revolutionary range of lubricants. At the bottom left is the TotalEnergies logo, and at the bottom right is a new recycling symbol.

QUARTZ
ENGINE OIL

Quartz Xtra, range, pushing fuel economy further

XTRA FUEL ECONOMY
HYBRID COMPATIBLE

QUARTZ
INEOXTRA
OW-20
ACEA C3
API SP/SAE 5W-20
5L

QUARTZ
INEOXTRA
OW-16
ACEA C3
API SP/SAE 5W-16
5L

Quartz Xtra, the (r)evolutionary range.
TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.
lubricants.totalenergies.com

TotalEnergies

RECYCLING SYMBOL

Green
reflection

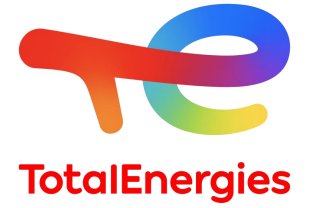
Packshot
reflexion

Body copy

New recycling
symbol

*Remark: Packshots to be updated locally, depending on your local product offer and supply.

Quartz Xtra, pushing fuel economy further



QUARTZ
ENGINE OIL

Quartz Xtra,
range,
pushing fuel
economy
further



QUARTZ
ENGINE OIL

Quartz Xtra, the (r)evolutionary range.

TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. *In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.

lubricants.totalenergies.com



QUARTZ
ENGINE OIL

Quartz Xtra range,
pushing fuel
economy
further



QUARTZ
ENGINE OIL



lubricants.totalenergies.com



QUARTZ
ENGINE OIL

Quartz Xtra range,
pushing fuel
economy
further



QUARTZ
ENGINE OIL

Quartz Xtra range,
pushing fuel
economy
further



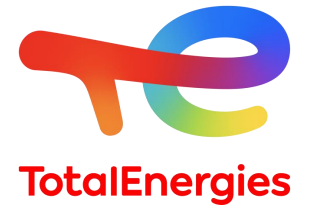
QUARTZ
ENGINE OIL

Quartz Xtra range,
pushing fuel
economy
further

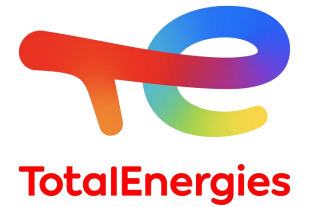


*Remark: Packshots to be updated locally, depending on your local product offer and supply.

Quartz Xtra, the perfect fit for hybrid engines



Quartz Xtra, the perfect fit for hybrid engines



Headline Hybrid

New icons
Fuel Economy
and Hybrid
Compatible

QUARTZ
ENGINE OIL

**Quartz Xtra range,
the perfect
fit for hybrid
engines**

HYBRID
COMPATIBLE

QUARTZ
INEOXTRA
ECS
OW-20
ACEA E11
API SP-4
SAE 5W-20

QUARTZ
9000XTRA
ECS
OW-16
ACEA E11
API SP-4
SAE 5W-16

Quartz Xtra, the (r)evolutionary range.

TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.

lubricants.totalenergies.com

TotalEnergies

50% RECYCLED PLASTIC
100% RECYCLABLE

Hybrid Compatible
reflection

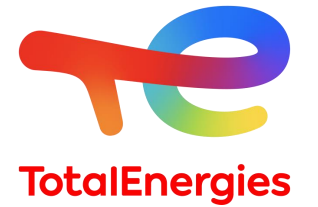
Electric
elements

Body copy

New recycling
symbol

*Remark: Packshots to be updated locally, depending on your local product offer and supply.

Quartz Xtra, the perfect fit for hybrid engines




Quartz Xtra, the (r)evolutionary range.

TotalEnergies developed a range of revolutionary lubricants to meet the needs of drivers' engine oil usage and consumption. The newest Quartz Xtra range is designed for the latest generation of engines (such as hybrid, downsized) and provides Xtra fuel economy properties. *In addition, Quartz Ineo Xtra and Quartz 9000 Xtra subranges made in Europe introduce an innovative bottle composed of 50% recycled plastic and 100% recyclable.

 TotalEnergies
lubricants.totalenergies.com



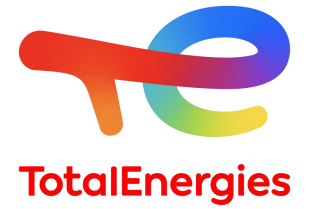
 TotalEnergies
lubricants.totalenergies.com

 TotalEnergies

 TotalEnergies

*Remark: Packshots to be updated locally, depending on your local product offer and supply.

Quartz Xtra, the perfect fit for hybrid engines



QUARTZ ENGINE OIL

Quartz Ineo Xtra, EC6 0W-20
Technical product sheet

HYBRID COMPATIBLE

ENVIRONMENTAL FRIENDLY
HYBRID COMPATIBLE

TotalEnergies

lubricants.totalenergies.com

QUARTZ ENGINE OIL

Quartz Ineo Xtra EC6 0W-20

OFFICIAL STANDARDS

International classifications:

- ACEA C6, C6
- API SP + PC
- ILSAC GF-6A

Manufacturers' approvals:

- MB-Approval 229.72 (backwards compatible 229.71)
- Opel/Vauxhall OLV 040 1547-A20
- Ford WSS M2C947-B1
- Ford WSS M2C962-A1
- Jaguar Land Rover STJLR 03 5006
- Volvo VCC 9830-2AE

Meets the requirements of:

- Fiat 9 55535-05X
- Chrysler MS-12145

PRODUCT BENEFITS

- ✓ Reduced environmental impact: optimal functioning of the Particulate Filters lowering emissions of NOx, CO and other particles.
- ✓ Reduced oil aging and extended drain interval.
- ✓ Impeccable cleanliness: protecting engines against all types of impurities and fights against sludge creation.
- ✓ Reduced running cost and fuel consumption.
- ✓ Extra efficient protection against wear for stop-start engines.

XTRA FUEL ECONOMY PERFORMANCES

Thanks to its advanced formulation, Quartz Ineo Xtra EC6 0W-20 makes a front-runner that delivers exceptional results when it comes to Fuel Economy.

Fuel Economy test (ACEA M111 R1)

Quartz Ineo Xtra EC6 0W-20: 3.6%	Standard Limit: 3%
----------------------------------	--------------------

OUTSTANDING OXIDATION STABILITY

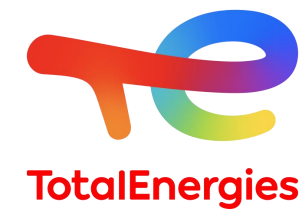
Quartz Ineo Xtra EC6 0W-20 provides a superior oxidation stability compared to the industry limit, there by it improves engine longevity and efficiency from the first start. Test completed with Biodiesel fuel, showcasing the extreme oxidation stability of Quartz Ineo Xtra EC6 0W-20.

Quartz Ineo Xtra EC6 0W-20: 25%
Viscosity Increase, relative at 210h

Standard Limit: 100% increase

New Product Sheet
Quartz Ineo Xtra EC6 0W-20

Quartz Xtra, the (r)evolutionary range



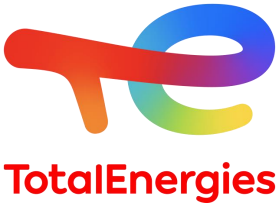
Videos

06.

Back up

- Quartz Xtra, revolutionary right down to the packaging
- Quartz Xtra, pushing fuel economy further
- Quartz Xtra, the perfect fit for hybrid engines

Competitive benchmark



DEDICATED RANGE



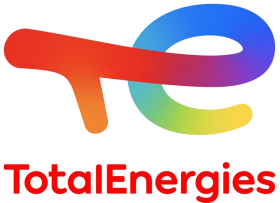
COMPATIBLE RANGE

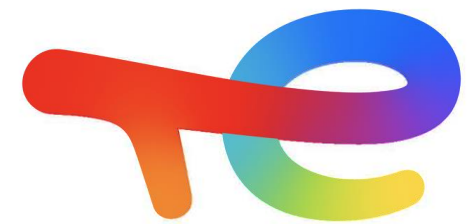


TotalEnergies Lubrificants, the Hybrid expert:

- Xtra Fuel Eco
- Hybrid compatible claim
 - For CO2 reduction
- OEM Approvals
 - Matching OEMs' specifications for hybrid engines
- Premium positioning
 - Only for 0W-20, 0W-16, 0W-8 grades

Car manufacturers' communication





TotalEnergies