

NANOTRINO®



Optimizer for engine and transmission



Guaranteed fuel savings by 99,99% pure Nanodiamonds

WHAT IS IT

eOx NANOTRINO is a series of high-tech products for engines, transmission and hydraulic systems, greases and lubricants.

WHAT'S IN IT

The main ingredient of **eOx NANOTRINO** is a mixture of active particles of modified nanodiamond (99,99% pure Carbon) with a high surface activity of the diamond particles. The diamond is chemically inert i.e., does not react chemically with other substances. The operating principle of a diamond is a physical and therefore products **eOx NANOTRINO** does not change the composition and lubricity of the oil.

HOW IT WORKS

Nanodiamond particles are about one thousand times smaller than the roughness of micro surfaces and have extremely high surface activity.

eOx NANOTRINO improves friction, reduces heat and wear at contact surfaces. Being in areas of friction nano-particles form ultra-thin diamond layer with a thickness of 1 to 1.2 microns, where there is wear and they fill cracks and microinhomogeneity.

They penetrate into the crystal lattice of the metal and form a solid lubricating film of oil. Ideal sliding surface with high wear-resistant properties is created and in fact metal to metal friction is absent.

- Fills micro-leaks and heterogeneity
- Penetrates into the crystal lattice, improve the surface layers during friction as well as their endurance
- Particles freely pass through all kinds of oil filters, due to its nanoscale
- Forms a solid lubricant film, which behaves like a layer of motor oil
- Creates an ideal sliding surface with high wear and corrosion properties

As a result of improved conditions of friction and lubrication and stabilization of the combustion process, the functional parameters of operation of the vehicle are improving in complex: power is increased and fuel consumption is reduced.

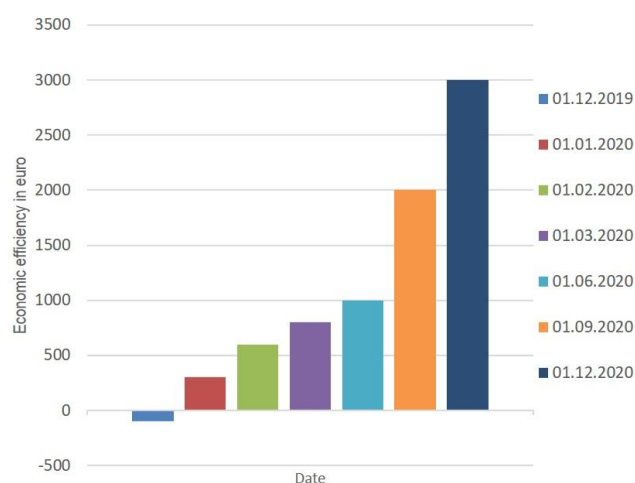
The overall stabilization and good technical conditions are a guarantee for good environmental performance of the entire vehicle: reducing the amount of exhaust gases heat and noise emissions and reducing the consumption of not renewable natural energy resources - fuels and oils.

WHAT DOES IT DO

- Provides significant fuel economy - from 6 to 12%
- The engine power is increased up to 12%
- It increases the working life of oil and engines
- Protects against burns and loss of oil
- Facilitates starting when engine is cold
- Reduces wear - with 60 to 70%
- Reduces the coefficient of friction - with 40 to 80%
- Reduces operating temperature
- Ensures quiet work of the engine
- Protects against oil graphitization
- The engine is kept out of blocking when out of oil for up to 60 kilometers

eOx NANOTRINO improves the operating parameters of engine by:

- Increasing engine power and acceleration
- Reconciliation of compression on all cylinders to normal
- Sealing of the assemblies



Economic effect of **eOx NANOTRINO** on trucks and buses for one year. Only the fuel economy in EURO is expressed in the diagram.

COMPARISON WITH OTHER SUPPLEMENTS

	Long-time efficiency	Short-time efficiency	Efficiency after oil change	Effect on new engines	Regeneration of engine surfaces	Influence on the engine and the environment
NANOTRINO	+++	++	++	+++	+++	+++
PTFE	--	+	0	0	0	-
Silicate	-	++	0	0	0	0
Heavy metals	+	+++	0	0	0	-

Guaranteed fuel savings mining industry

For all industrial applications like Mining Industry, busses, trucks, ships, excavators, cranes, taxis, couriers, etc, we guarantee a minimum fuel saving of 4% to 6% after dosing our pure **eOx NANOTRINO** product into the engine oil. The product is very economical, because a product dosage is only required every third oil change.

Since 2011 the product is used successful in the mining industry where fuel savings up to 9% are achieved in Cummins engines. On top of these fuel savings the product is giving an engine protection against sand and dust, which results in a reduction of cost on spare parts and maintenance.

General opinions about eOx NANOTRINO

Nanodiamonds have excellent mechanical and optical properties, high surface areas and tunable surface structures. They are also non-toxic, which makes them well suited to biomedical applications. These little gems have a wide range of potential applications in tribology, drug delivery, bioimaging and tissue engineering, and also as protein mimics and a filler material for nanocomposites.

Nanodiamonds are diamonds which can be produced by impact events such as an explosion or meteoritic impacts.

A single imperfection can give a nanodiamond an isolated color center, which lets it function as single, trapped atom. Relative to the defect size, they have huge surface areas that allow them to toxicity means that nanodiamonds may be useful in biomedical and mechanical applications.

eOx NANOTRINO in practice

eOX NANOTRINO is added to the new engine or an older engine after changing the oil and filter. eOx NANOTRINO is designed for a running time of approx. 50,000 km or 1,000 – 1.250 hours of operation. Within this period, up to two oil changes can be made without adding NANOTRINO. Then simply add a new, complete dose of eOx NANOTRINO to the engine at the next oil change and you can drive another 50,000 km to save more fuel and protect the engine.

eOx NANOTRINO as an OPTIMIZER for transmission systems

- Restoration of worn parts of gearboxes, differentials and transmissions
- Reducing friction up to 80%
- Increases the service life of reducers
- Reducing the temperature of the gears up to 60%
- Removal of blemishes and scratches on the details of reducers
- Improves gear shifting even when the engine is cold

Greases "eOx NANOTRINO"

Protection and recovery of boxes, hinges, hubs, by creating a protective Diamond layer.

- Reduction of the friction.
- Protection of the rotating parts from moisture and corrosion.
- Reduction of noise and vibration.

PRODUCTS:



eOx NANOTRINO LA-10

Cars, light trucks, vans,
electric generators,
pumps

*For engines with a capacity
of oil up to 6 l.*

eOx NANOTRINO TA-10

Trucks, buses and locomotives

*For engines with a capacity
of oil up to 35 l.*



eOx NANOTRINO AC-10

Agro-machines

*For engines with a capacity
of oil up to 22 l.*



eOx NANOTRINO as an OPTIMIZER for hydraulic systems

- Restoration of worn metal parts of the hydraulic system
- Establishment of diamond coating and protecting against further wear of valve body and rack
- Remove scratches and defects on the surface and the details of hydraulics
- Reduction of noise and vibrations of the hydraulic pump
- Reduction of the steering-wheel load
- Reduction of vibration-acceleration
- Improving the accuracy of operation of hydraulics

eOx NANOTRINO MQ-15

Mining equipment, operating
in severe service and a wide
range of climatic conditions

*For engines with a capacity
of oil up to 35 l.*



eOx NANOTRINO MR-10

Yachts and motorboats

*For engines with a capacity
of oil up to 35 l.*



eOx NANOTRINO HS-32

It is used in hydraulic
transmissions and
differentials

*with a capacity of oil
up to 2 and 100 l.*



eOx NANOTRINO TS-80

It is used in mechanical
transmissions and differentials

*with a capacity of oil
up to 2 and 22 l.*

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