

revitalization

«« revitalizant »»

revive {xado}?



The term "Revitalization" (from Latin "vita" = life) literally means "returning to life". The revitalization process is based on unique physicochemical processes which, under certain conditions, take place in the friction zone.

XADO offers an entirely new type of chemicals called Revitalizants. Our products bring an entirely new philosophy, a totally new approach to the process of repair. Mechanisms can be revived or reconditioned (revitalized) without disassembly.

As soon as a mechanism begins to operate, it starts to wear out. Eventually, something will fail. Under load, the working surfaces of the parts rub, overheat and wear. Metal particles are simply taken away and wiped off the surface. Having lost weight and shape, the part cannot serve properly and fails.

XADO contains a building material and a unique energy activator which uses excess friction energy to create a new surface. It turns out that overloads, i.e. excessive energy which can ruin the inter-atomic bonds and damage the parts' surfaces can be "withdrawn" and even more - can be used for the growth of other matter crystals! This unique energy activator is called **XADO** Revitalizant. XADO seeks out the surfaces in a mechanism where the damage processes are most active and becomes part of the contact area.

Scientifically speaking, in the first stage, the **XADO** particles, a synthesized combination of several minerals, are introduced into the friction zone via whatever lubricant is present in the mechanism. There, only if friction is present the complex molecules become bro-



SOMETIMES A FRESH PERSPECTIVE
IS REQUIRED TO PRODUCE NEW,
PROGRESSIVE, UNEXPECTED AND
BRILLIANT RESULTS.

ken and start a physicochemical reaction by diffusing into the surface of the metal and changing the property of the metal on the surface.

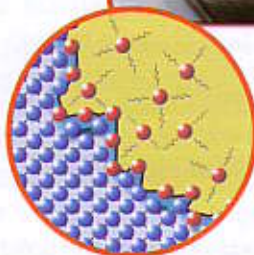
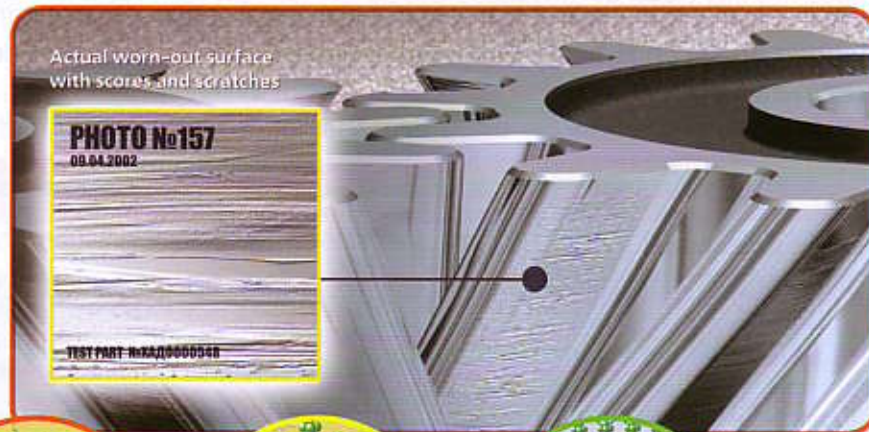
In the next step, the active surface starts to attract the metal shavings that are present in the lubricant and rebuilds itself until the optimal conditions are met. The process continues even after the oil is changed. XADO works only when friction exists, and stops when the friction is gone. Revitalization provides individual adjustment of mating parts, and all rubbing surfaces appear to have been coated with not quite clear glass.

Until now, the only solution for overhaul was mechanical intrusion, requiring down time and lots of effort.

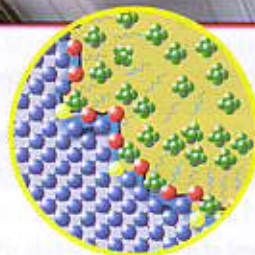
Now there is XADO. We can repair, revitalize and restore optimal mating of moving parts while the mechanism operates as normal. We can do this without down time or mechanical intrusion, just imagine! Moreover, with XADO the service life of the machinery will be two to three times longer.



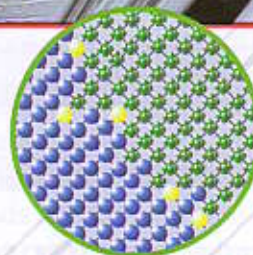
WORN-OUT SURFACE



Wear zone

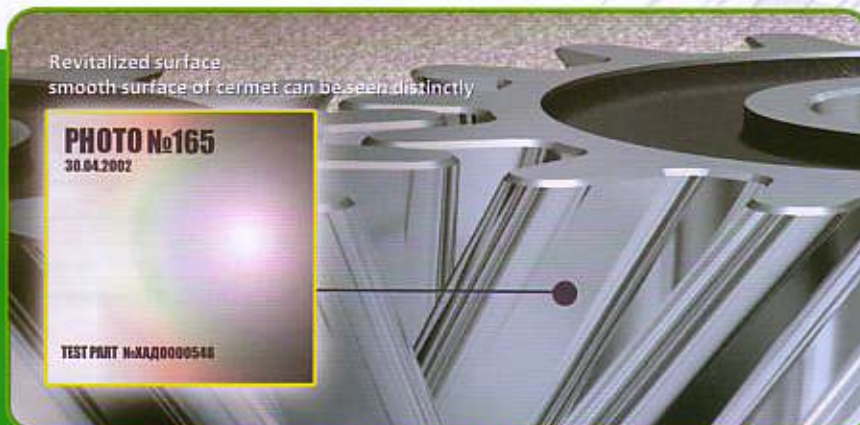


REVITALIZANT acts directly in the wear zone



Revitalized surface

RECONDITIONED SURFACE



auto engine engine



The engine is the heart of your car's performance. And, just like a heart, when it needs surgery, there is no simple solution. The onset of a new noise, high oil consumption, dwindling gas mileage, erratic idling, or blue exhaust smoke is enough to throw any car owner into despair.

Now there is **XADO "Gel Revitalizant for Engines"**. You can repair, revitalize, and restore the optimal mating of the moving parts in your engine during normal operation. XADO allows you to avoid mechanical intrusion or down time, virtually eliminating the inconvenience of repair. It is so simple it can be done in 30 seconds by anyone who can lift the hood of a car and add **XADO** to the oil.

Bushings test results	Standard mode	Treated by XADO Revitalizant
Working surface wear	yes	no
In unloaded area	0-6 μm	wall thickness increases by 0-14 μm
In loaded area	6-24 μm	wall thickness increased by 6-24 μm , growth of 10-30 μm crystal relief is observed
Weight	minus 51mg	plus 25.8 mg
Ellipticity (out-of-circle)	increased	decreased
Roughness	1.8-2.0 μm	0.27-0.36 μm
Micro-hardness (by Brinell)	85-87 HB	105-110 HB (increased by 15-20%)

The data were taken from the report of the Laboratory of bearings of the chair of the air engines design of N.Ye.Zhukovsky State aerospace university (HAI).



We will **change**
the way
you think about
engine treatment