

ASTA 3000[®]

Engine Treatment

Presentation

- ▶ Clogging: is it fate?
- ▶ How to solve the problem?
- ▶ ASTA 3000 Engine Treatment effects
- ▶ ASTA 3000 Engine Treatment: a unique product
- ▶ How to use ASTA 3000 Engine Treatment

Clogging: is it fate?

Kilometre after kilometre, the engine's output drops. Fuel consumption and pollution increase, performance isn't optimal, start-ups are more arduous and wear is accelerated. Engine's clogging is the main cause for these problems but it isn't a fate anymore...

The origin of clogging

When in the cylinder, the air-fuel mixture explodes; this is known as combustion. Each explosion creates residues composed of soot, tars, varnishes and impurities contained in the fuel.

These residues affix themselves on the admission pipes and the piston's heads. Pushed by combustion gas, clogging reaches the bottom of the ring's groove. Accumulated, this clogging pushes rings against cylinders increasing friction.

Consequences

This friction wears out rings and cylinders, the combustion chamber's seal is no longer secured, and exhaust gas is propagated into the bottom of the engine and pollutes the oil.

Result: the engine is less effectively lubricated, it becomes more energy consuming and needs more and more fuel to output the same power.

How to solve the problem?

ASTA 3000 Engine Treatment is unique. With a single application, it cleans and protects the whole engine for thousands of kilometres by eliminating carbon deposits and by limiting further clogging, which is the main cause of wear and decreased performance.

ASTA 3000 Engine Treatment eliminates carbon deposits

ASTA 3000 Engine Treatment segregates oil deposits carbonized during combustion and evacuates them during the exhaust phase. The valves and the combustion chamber are cleaned, restoring an optimal output level to the engine.

ASTA 3000 Engine Treatment decreases friction and protects the engine

ASTA 3000 Engine Treatment treats surfaces with a friction modifier, sticking more easily as the temperature of friction areas is higher.

The non-stick coating of ASTA 3000 Engine Treatment limits carbon deposits, in particular in the bottom of the fire ring's groove. This latter can retract without stress in its housing, limiting friction and improving the combustion chamber's seal.

ASTA 3000 Engine Treatment effects

ASTA 3000 Engine Treatment decreases fuel consumption

ASTA 3000 Engine Treatment cleans the combustion chamber, the rings and valves, which optimizes diffusion of air-fuel mixture. The explosion is optimal, compressions are even again. Results: engine's output is improved, consumption decreases.

ASTA 3000 Engine Treatment cuts down engine wear

Engine clogging increases friction, which accelerates wear. By keeping the engine clean, ASTA 3000 Engine Treatment slows down the wear phenomena and gives engine oil an optimal functional environment. Engine lubrication is thus eased.

ASTA 3000 Engine Treatment reduces pollution

By optimizing combustion, ASTA 3000 Engine Treatment results in a dramatic reduction of carbon monoxide emissions and unburned hydrocarbons. ASTA 3000 Engine Treatment's action on rings reduces the « blow-by » phenomena (combustion gas leaking into the oil sump), itself a source of polluting emissions.

ASTA 3000 Engine Treatment increases performance

Thanks to its effect on rings which restores seal integrity of the combustion chambers, ASTA 3000 Engine Treatment rebalances compressions; power, response and flexibility are restored.

ASTA 3000 Engine Treatment eases cold starts

During cold starts, the presence of the ASTA 3000 Engine Treatment's lubricating layer on engine parts compensates for the lack of lubrication. Indeed, the engine oil usually needs a few seconds before reaching and lubricating the whole engine, seconds during which friction is done metal over metal. A reduction in friction decreases the power necessary to start the engine. The starter and the battery are less in demand.

ASTA 3000 Engine Treatment protects the catalytic converter

The increased compressions improve combustion. CO and HC emissions decrease. By limiting unburned emissions, ASTA 3000 Engine Treatment extends the catalytic converter's lifespan which is less in demand.

ASTA 3000 Engine Treatment: a unique product

ASTA 3000 Engine Treatment doesn't contain any metallic particles, Teflon nor plastic residues. It's neither a thickener nor an aggressive cleaner: its formulation allows a soft and progressive action.

ASTA 3000 Engine Treatment coating is made up of an organ fluorinated salts compound completely soluble rendered in a lubricating and cleaning base.

This coating is completely liquid and doesn't modify oil nor fuel composition at all. It's not made up of particles but of molecules, forming a crust on the engine parts' inner walls by taking advantage of the surfaces dilatation caused by the calorific release of explosions.

The ASTA 3000 Engine Treatment's double action (cleaning and protecting) on the whole engine enables all engines to regain an optimal output level.

ASTA 3000 Engine Treatment has won 4 gold medals at Inventions Exhibitions of Paris, Brussels, Milan, and Geneva.

How to use ASTA 3000 Engine Treatment

How?

1. Turn off the engine
2. Pour the content of ASTA 3000 Engine Treatment bottle number 1 into the fuel tank, no matter what the current fuel level is
3. Pour the content of ASTA 3000 Engine Treatment bottle number 2 into the engine oil (an oil change isn't necessary)

Which engines?

ASTA 3000 Engine Treatment is compatible with any engine, old or new; gasoline, diesel or LPG; with or without a catalytic converter, turbo, multi-valve, including today's most modern engines.

How often?

We recommend the use of ASTA 3000 Engine Treatment every 30,000 kilometres (20,000 miles) or at least once a year.

How much?

Cubic capacity	Quantity
Up to 3,000 cm ³	75 ml into the fuel 75 ml into the engine oil
From 3,000 to 5,000 cm ³	250 ml into the fuel 250 ml into the engine oil
From 5,000 to 10,000 cm ³	500 ml into the fuel 500 ml into the engine oil
From 10,000 to 30,000 cm ³	1000 ml into the fuel 1000 ml into the engine oil
Above 30,000 cm ³	2000 ml into the fuel 2000 ml into the engine oil