

# Technical Information

**LIQUI  
MOLY**

## Problems with:



high fuel consumption?



decreasing engine performance?



rough engine running?



poor emissions values?

**NEW** redeveloped recipe based on the most recent additive technology

**NEW** in addition to the established characteristics, particularly well suited for modern engines.

## Our solution: Engine system cleaner



**FOR GASOLINE AND  
DIESEL ENGINES**



# Information

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### Application:

Can be added to the fuel at any time. Mixing takes place automatically. 300 ml sufficient for 35–75 l of fuel.

Recommendation: Add to gasoline during inspection or other maintenance work on the fuel system.

For preventative use after repairs to the fuel system, for treating problems or after every JetClean cleaning.

## Gasoline Engine System Cleaner

Combines the latest additive technology with a high percentage of cleaning and corrosion protection additives. Developed to remove particularly serious deposits such as those that occur in direct injection systems.

- guarantees low pollutant emissions
- optimal engine performance
- removes deposits from entire fuel system
- prevents corrosion in the fuel system
- assures an optimum mixture
- tested for catalytic converters
- guarantees low fuel consumption
- keeps injection nozzles clean

Suitable for all gasoline injection systems with and without turbocharging, particularly with direct injection.

Part no.	Product	Cont.	Type of container	Language	PU
5129	Gasoline Engine System Cleaner	300 ml	Can sheet metal	EN	6

## Diesel Engine System Cleaner

Additive combination with a high percentage of cleaning and corrosion protection additives as well as additives ensuring effective lubrication. Removes troublesome deposits from high-precision components, such as injectors and high-pressure pumps, and maintains optimal functionality. Also protects expensive injection system components through lubrication action improvers and corrosion inhibitors.

- removes deposits from entire fuel system
- prevents the build-up of deposits
- suitable for all diesel engines, including common rail and pumped-jet
- protects injection system components from wear
- prevents seizing and the injector needles from gumming up
- guarantees optimum combustion

Suitable for use in the workshop for all diesel engines, including common rail and pumped jet high-pressure injection as well as in vehicles with or without a diesel particulate filter.

Part no..	Product	Cont.	Type of container	Language	PU
5128	Diesel Engine System Cleaner	300 ml	Can sheet metal	EN	6



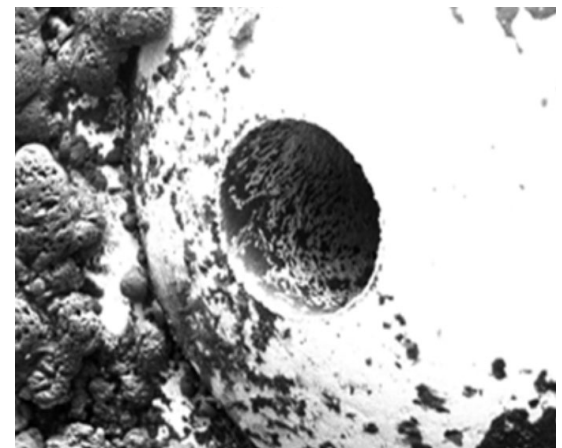
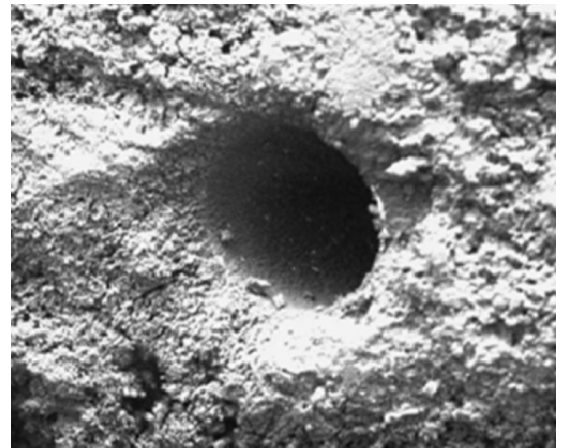


## Most effective with remedial use

### Problem

With every combustion process, components in the injection system are soiled. The more sophisticated the engine, the more sensitively the systems react to contamination and the more serious the problems that occur.

With direct injection of fuel in particular the respective injection (gasoline or diesel) is installed in the combustion chamber. The consequence is that the sensitive nozzle head is permanently exposed to high temperatures, pressures and exhaust gases (including soot). Depending on the driving style and quality of fuel, deposits quickly form at the fuel outlets on the nozzle head.

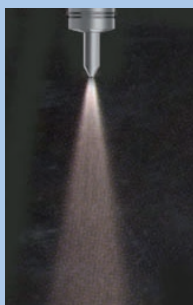


### Consequences

Soiled injection nozzles lead to losses of engine performance, which can be traced back to decreased fuel flow through the injection nozzle ducts. This leads to a loss of driveability and to an increase of emissions and fuel consumption. As time goes on, more combustion residues such as soot is produced, clogging the fine outlets even more. This results in even poorer combustion through to the injector being blocked or the system failing, entailing costly repairs.

### Solution

The Gasoline or Diesel Engine System Cleaner additive has the unique characteristic of almost completely removing DW10 injection valve deposits. To demonstrate this, a series of experiments were performed that demonstrate the potential of the engine system cleaner.

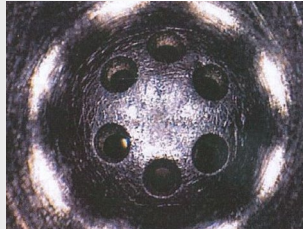


Preserves and protects the entire fuel system against wear, deposits and corrosion. Clean engines use less fuel and reduce the pollutant emissions.

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## Confirmation of effectiveness



Completely cleaned injector at the beginning of testing.



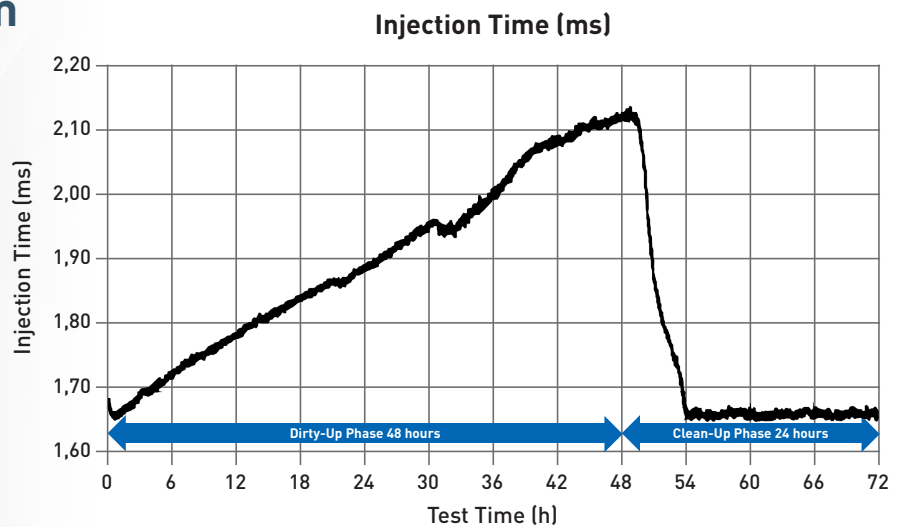
After 48 hours of operation without additive.



After a subsequent 24 hours of operation with additive.

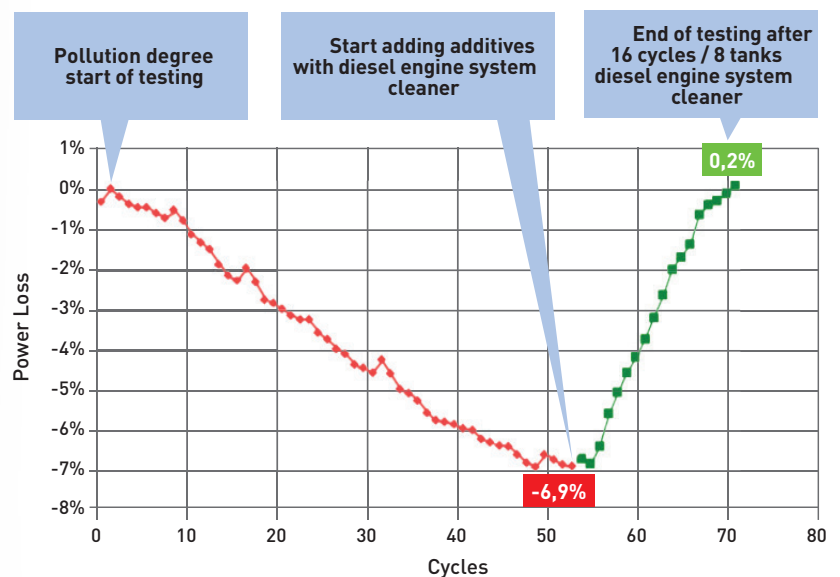
## Gasoline injection system

The graphic illustrates the removal of deposits from the soiled injectors over an operating period of 24 hours with 450 mg/l of the additive.



## Diesel injection system

The graphic illustrates the removal of deposits from the soiled injectors over an operating period of 16 test cycles with a consumption of about 400 l of fuel.



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