



PROTECTION | **PERFORMANCE**
you demand. | you deserve.™

Diesel 4-IN-1

All-season protection and performance

AMSOIL Diesel 4-IN-1 (ADB) combines the superior detergency and improved lubricity of AMSOIL Diesel Injector Clean, the excellent cold-flow and anti-gelling properties of AMSOIL Diesel Cold Flow and the increased horsepower and cetane of AMSOIL Cetane Boost in one convenient package, providing the full potency and benefits of all three products. It is safe for use in all diesel fuels, including biodiesel. Diesel 4-IN-1 is specially engineered to provide exceptional all-season protection for a serious performance boost. One dose delivers outstanding detergency, improved lubricity, better cold flow and higher cetane.

Restores Horsepower & Improves Fuel Economy

Fuel injector deposits interrupt spray patterns, causing poor fuel atomization, incomplete combustion, excessive emissions and smoke. High-pressure common-rail fuel systems are common as vehicle manufacturers attempt to produce more power while still meeting tightening emissions standards. In high-pressure common-rail systems, injection pressures can be 30,000 psi and higher to atomize the fuel into a fine mist for more efficient combustion, yielding increased power and fuel economy while reducing emissions. To maintain these high pressures, injector assemblies are highly engineered, with clearances as tight as 1-3 microns (a human hair is typically 70-100 microns thick). Even minimal internal diesel injector deposits on the injector pintal or other components can lead to sticking and even seizure, reducing power, fuel economy and operability. Traditional additive chemistry is not designed to address these tough-to-remove deposits.

Diesel 4-IN-1 features advanced chemistry that delivers concentrated strength to target internal diesel injector deposits and traditional carbonaceous deposits, helping to restore horsepower and operability to like-new condition. Acceleration is improved and, with regular use, Diesel 4-IN-1 continues to enhance performance by keeping injectors clean. The net savings on fuel can result in no additional cost of ownership.

Lubricates Pumps & Injectors to Reduce Wear

Ultra-low-sulfur diesel fuel (ULSD) provides significantly reduced lubricity – a critical property in controlling wear in fuel pumps and injectors. Diesel 4-IN-1 adds the lubricity the fuel pump and injectors need, reducing wear, improving service life and saving time and money on maintenance costs.

Improves Fuel Quality for Peak Performance

Fuel with a higher cetane number provides for a more complete burn, resulting in improved performance. By increasing cetane, Diesel 4-IN-1 improves the ignition quality of diesel fuel, maximizing available power and improving starting. It also smooths idle and reduces smoke and emissions.

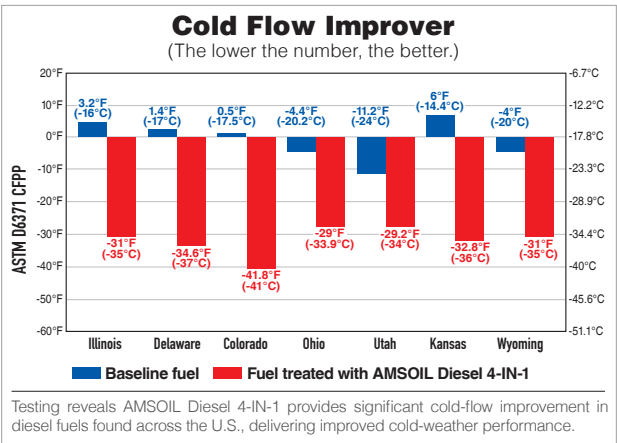
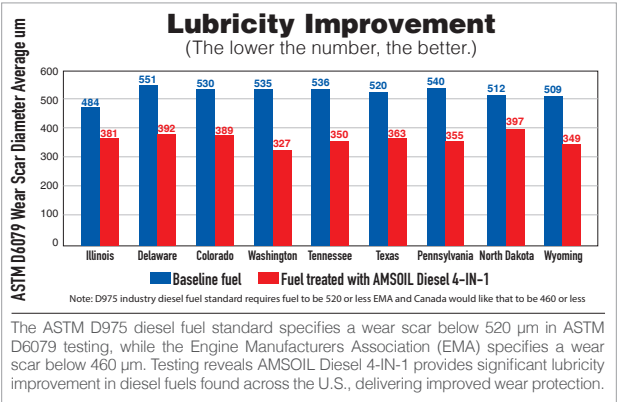
Helps Prevent Gelling

As the temperature drops, the wax naturally found in diesel fuel begins to crystallize. The point at which wax crystals form is known as the cloud point. These wax crystals eventually clog the fuel filter and starve the engine of fuel, preventing it from starting. While low-quality fuels may form wax crystals in temperatures as warm as 40°F (4°C), most fuels have a cloud point near 32°F (0°C). The point at which the crystals clog the fuel filter is known as the cold filter-plugging point (CFPP). Diesel 4-IN-1 lowers the CFPP by up to 40°F (22°C) in ULSD.

DATA SHEET



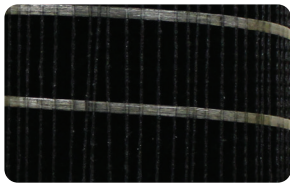
- **Cleans** dirty injectors
- **Lubricates** pumps and injectors to reduce wear
- **Extends** fuel-filter life
- **Improves** fuel economy up to 8%
- **Combats** fuel-system corrosion
- **Prevents** wax settling during storage
- **Lowers** cold filter-plugging point (CFPP) by up to 40°F (22°C)
- **Delivers** maximum horsepower
- **Increases** cetane up to 4 points
- **Safe for use** in all diesel fuels, including biodiesel
- **Alcohol-free**



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Extends Filter Life

Modern diesel engines run hot, raising the temperature of the fuel returned to the tank and causing carbonaceous deposits that collect in the fuel filter (see picture), plugging it and causing premature failure issues. Diesel 4-IN-1 effectively protects against deposits, extending fuel filter life.



RECOMMENDATIONS

Diesel 4-IN-1 is recommended for use with all types of heavy- and light-duty, on- or off-road and marine diesel engines. Add before filling tank. Diesel 4-IN-1 must be added at temperatures above the diesel fuel cloud point (the temperature at which wax begins to crystallize). It will not reverse gel or wax crystals once formed.

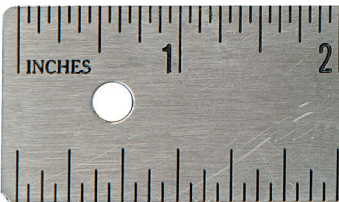
ADDITIVE	MAINTENANCE Up to 4-point cetane increase	FUEL VOLUME
	2 oz. (59.1 ml)	5 gal. (18.9 L)
	4 oz. (118.3 ml)	10 gal. (37.9 L)
	8 oz. (236.6 ml)	20 gal. (75.7 L)
	12 oz. (354.9 ml)	30 gal. (113.6 L)
	16 oz. (473.2 ml)	40 gal. (151.4 L)
	64 oz. (1.9 L)	160 gal. (605.7 L)

PRODUCT WARRANTY

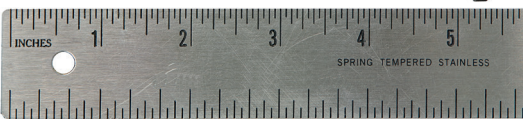
AMSOIL products are backed by a Limited Liability Warranty. For complete information visit [AMSOIL.com/warranty.aspx](https://www.amsoil.com/warranty.aspx).



High-Pressure Common-Rail Fuel Injector Pintal



Traditional Fuel Injector Pintal



Fuel injectors in high-pressure common-rail diesel engines use smaller, highly engineered components to produce the higher fuel pressures needed for improved combustion. The tighter clearances invite internal diesel injector deposits that interfere with injector needle actuation, reducing performance. External deposits can also form on the injector nozzle (the typical trouble spot for traditional injectors). While many other fuel additives have yet to catch up to the internal diesel injector deposit problem, AMSOIL Diesel 4-IN-1 targets deposits wherever they form, maximizing power, fuel economy and performance in high-pressure common-rail and traditional diesel engines.



AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

