



## Solid Sheet

### ***“Protect Your Investment”***

Contact your rep for more detailed GDI engine deposit information.

## **GDI FUEL SYSTEM CLEANER**

### **The Problem**

GDI engine manufacturers attempt to address deposits with complex engines, an SAE Paper reports that deposits form “... in higher amounts in the GDI engine than in the PFI engine.” Deposits can eliminate GDI engine benefits and require costly repairs in these expensive engines.

With more than 20% of new engines using GDI today and projections that GDI is becoming the technology of the future, it’s important to address GDI engine deposit problems with GDI Fuel System Cleaner:

- With **fuel injector tips** directly exposed to combustion heat and pressure, injector deposits become harder and more tenacious, reducing fuel injection and vaporizing for efficient combustion.
- With more GDI fuel injected at higher pressure, combustion cylinder compression ratios maximized along with low tension piston rings allowing more blow-by and PCV oil and vapors in the intake air stream and oil passing low tension piston rings into the combustion chamber, increased **combustion chamber** carbon deposits create hot spots that cause harmful pre-ignition and knocking, often inaudible to the driver due with vehicle designs to reduce GDI engine noise exposure.

### **The Solution**

True Brand® GDI Fuel System Cleaner provides **aggressive Two-Stage cleaning\*** for GDI and PFI engines from the gas tank to the exhaust, dissolving gums, varnish and carbon deposits. This formula also lubricates while cleaning and removes water from the fuel system by suspending water into fuel and removing water through the combustion process. See **Features / Benefits** below.

- For GDI engine deposits related to intake air and valves, crankcase deposits and PCV emissions systems, apply GDI Emissions Control System Cleaner and GDI Induction Cleaner.

### **The Difference**

Many pour-in products recommend adding to a full, or partially full, tank of gas. **True Brand®** GDI Fuel System Cleaner contains both low and high flash point components which makes applicable to be added to the fuel tank **at any level** to provide **aggressive Two-Stage cleaning**:

1. **Stage One:** Light volatiles with low flash points quickly clean gums, varnish and debris.
2. **Stage Two:** Thermally stable components remain to dissolve and provide long-term carbon cleaning.

### **Truth - Application / Directions**

**Preventive maintenance cleaning helps avoid costly component replacement.**

- Pour entire contents of bottle into fuel tank every 3,000 miles.
- Entire content of bottle will treat up to 30 gallons.
- **Safe and effective for GDI and PFI engines, gasoline and diesel engines.**

### **Truth - Features / Benefits**

True Brand GDI Fuel System Cleaner helps avoid harmful deposit problems by keeping the engine running cleanly to restore efficiency, helps keep injectors clean for better fuel spray and combustion:

- Cleans fuel system deposits
- Helps restore power & performance
- Helps restore fuel economy
- Helps reduce emissions
- Contains no alcohol
- Removes water from fuel system
- Helps prevent ethanol problems
- Lubricates while cleaning