

## HSS Hot Shot's Secret

**Description:** Hot Shots Secret was developed for a major engine manufacturer. Today's diesel engines are much more efficient than those just 10 years old. To increase the efficiency of the burn, diesel engine manufacturers have increased the pressure at the tip of the injector. Older engines are in the 2000 - 4000 psi range where new diesel engines are as high as 35,000 psi. This increase in pressure atomizes the diesel fuel and provides for a better, more efficient burn (more power, less particulates).

Unfortunately there are some problems that come with this improvement. Higher pressures and higher temperatures have a burning effect on the engine oil. The engine oil is used as hydraulic oil to push the injector plunger which in turn pushes out the diesel fuel and atomizes it. Over time a thin layer of oxidized oil and additives slow down the injector. At first this shows up as sluggish acceleration. As time goes on it actually stops the injector from working. This is the point that the injector usually gets replaced.

**Composition:**

Acid Neutralizers	Corrosion Inhibitors
Detergents	Viscosity Improvers
Dispersants	Thermal Stability Agents
Anti-Wear Additives	Friction Modifiers
Anti-Foam Additives	

**Performance Characteristics:** We have been testing Hot Shot's Secret since 2004 and have found it to be effective in fixing injectors and turbos. Trucks having problems were hooked up to a diagnostic computer and tested. The computer showed anywhere from 1 to 6 injectors needing replaced. HSS was then put in the engine oil. The trucks were run about 100 miles and the computers were rechecked. 86% of the time it showed all the injectors were ok. The owners noticed more power and a smoother running truck. The other 14% of the trucks showed improvement also, but not a complete cure. Most of the time, the diagnostic computer showed that 4 injectors needed replaced. When HSS treatment was added to the engine, the computer showed 1 injector needing replaced.

HSS will clean other parts of the engine also. The additives in HSS will clean the deposits in the engine and turbo allowing everything to work with more efficiency. The additives will also fortify your existing oil and help it to work more effectively.

**Uses:**

Improves Power	Improves Compression
Removes Engine Deposits	Seals Rings Better
Neutralizes Harmful Engine Acids	Reduces Frictional Drag
Prevents Excessive Wear	Reduces Lifter and Valve Noise
Restores Oil Pressure	Reduces Blow-By

Typical Applications and Mixtures: Hot Shot's Secret is made for diesel engines only. It can be used in old oil (at the middle or end of it's service life) or in new oil. Hot Shot's Secret is made up of 100% additives so it can stay in the oil for the entire oil change.

For a clean up treatment use HSS @ 8% or a 64 oz bottle per 6 gallon oil change.

For prevention use @ 4% or 1 quart per oil change.

The most noticable improvements are on hesitation, fuel mileage, power, and the turbo.

Specifications:

Viscosity	
SUS @ 100°F	13,000
SUS @ 210°F	1,100
Acid Test	Excellent
I-H Test (M2C101B)	Pass
Color	Dark Green
Flash °F (COC)	122
Pour Point	-40
Copper Strip Corosion	Pass – Class 1
Moisture Test	Excellent
Humidity Cabinet Test	Pass
Varnish & Gum Test	Excellent
Gravity @ 60°F	15.32

## Lubrications Specialties, Inc.

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