



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

Diesel Deep Clean Winter Fuel Treatment

Lucas Oil Diesel Deep Clean Winter Fuel Treatment is a premium, multifunctional diesel fuel additive designed to provide maximum cold weather protection. Formulated with the latest fuel detergent technology, Lucas Oil Diesel Deep Clean Winter Fuel Treatment delivers impressive real-world fuel economy and power improvement. Our technology can restore engine cleanliness in as little as one tank of fuel, providing the complete driving experience, and minimizing downtime in on-road or off-road diesel fueled applications. Lucas Oil Diesel Deep Clean Winter Fuel Treatment provides excellent performance in standard industry tests such as the XUD-9 and the DW-10B Injector Deposit Tests which ensure fuel injectors are kept clean and free from deposits and has also been proven to deliver an average 3.8% improvement in fuel economy and reduced emissions in real-world field testing.

Lucas Oil Diesel Deep Clean Winter Fuel Treatment delivers multiple performance enhancing additives to your diesel fuel to ensure maximum performance. These include cetane improvers which will increase your cetane rating by up to 4 cetane numbers, lubricity improvers and corrosion inhibitors to protect critical fuel system componentry, cold flow improvers and wax anti-settling additives to prevent filter plugging and fuel gelation, and water dispersants to inhibit the harmful effects of water in diesel and biodiesel including fuel line freezing and microbial and fungal growth.

Lucas Oil Diesel Deep Clean Winter Fuel Treatment has been tested and proven in both virgin diesel and biofuel blends up to B20. The treat rate can be tiered to deliver a range of performance improvements based on your fleet's needs, and the quality of the diesel fuel you treat. At the regular treat rate of 1100 gal:1 gal of additive, Diesel Deep Clean Winter Fuel Treatment will deliver Top Tier Diesel® performance and an average reduction in Cold Filter Plugging Point of 25 °F. At the Premium treat rate of 600 gal:1 gal of additive the Cold Filter Plugging Point is reduced by an average of 35 °F.

The actual improvement in cold flow performance achieved by the end user will depend on the refining process to produce the unadditized fuel and the fuel's cold weather properties. Lucas Oil Diesel Deep Clean Winter Fuel Treatment should be added to diesel fuel that is at least 15 – 20 °F above its cloud point, and adequately blended to ensure full interaction of the cold flow improvers with the fuel. Fuel additized below its cloud point will not achieve the full performance potential of the additive.

PART NUMBER AND SIZE:

11307 – 55 Gallon Drum

11306 – 330 Gallon Tote

TREATMENT RATES:

Economic 2100 gal : 1 gal (475 ppmv)

Regular 1100 gal : 1 gal (900 ppmv)

Premium 600 gal : 1 gal (1650 ppmv)

FEATURES AND BENEFITS:

- Cetane improvement by up to 4 numbers.
- Up to 3.8% improvement in fuel economy and emissions reductions.
- Restores power and cleans entire fuel system in one-tank.
- Reduces Cold Filter Plugging Point by up to 35 °F to keep fuel flowing even during the harshest winter weather
- Suitable for use in upto B20 blends to mitigate the harmful effects of biofuels and keep your equipment in pristine condition.



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	Test Method	TYPICAL
Specific Gravity	ASTM D4052	0.921
Density @ 60°F, Lbs/US Gal	ASTM D4052	7.68
Viscosity @ 40°C, cSt	ASTM D445	6.1
Viscosity @ 0 °C, cSt	ASTM D445	23.3
Flash Point, °F	ASTM D93	114
Appearance		Clear, Amber Liquid

These characteristics are typical of current production. However, slight variations in these characteristics may occur.

LINKS AND ADDITIONAL INFORMATION:

For additional product or health and safety information, including product Safety Data Sheets, visit LucasOil.com