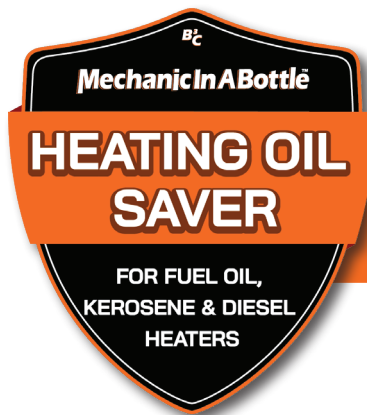




DISSOLVES SLUDGE & PREVENTS SOOT



HEATING OIL SAVER

FOR FUEL OIL, KEROSENE & DIESEL HEATERS

REMOVES WATER, CLEANS, LUBRICATES, STABILIZES FUEL

OEM USED & APPROVED

All-In-One Heating Fuel Treatment: Mechanic In A Bottle (MIB) Heating Oil Saver is an advanced fuel oil, kerosene and diesel treatment designed to protect and improve the performance of home heating oil systems, kerosene and diesel heaters, salamanders, and fuel-oil storage tanks using No. 1 and No. 2 heating fuels.

Complete Burner, Nozzle and Fuel System Cleaning: Advanced detergents clean the entire heating fuel system—from storage tank to fuel lines, pumps, and burner nozzles to help prevent gum and varnish buildup that can restrict fuel flow and disrupt spray patterns.

Water Control and Tank Sludge Prevention: The formula helps manage moisture in fuel tanks by dispersing small amounts of water so it can safely pass through combustion. This helps prevent water from settling on the tank bottom, reducing sludge and sediment formation while helping prevent microbial growth and filter plugging.

Improved Burner Reliability: Helps maintain clean burner nozzles, fuel lines, and pumps to promote reliable ignition and stable burner operation, reducing service issues caused by deposits, sludge, or fuel degradation.

Enhanced Fuel Lubricity: It restores lubricating properties to protect fuel pumps, valves, and burner components from wear. Using ASTM D6079, fuel treated with MIB Heating Oil Saver produced 38% less wear scar versus untreated fuel (320 vs. 520 micron).

Fuel Stabilization (Antioxidant Package): Powerful antioxidants help prevent oxidation, gum formation, and fuel degradation in stored heating oil and kerosene, keeping fuel fresh during long storage periods.

Biodiesel Compatibility: The advanced synthetic additive package helps maintain fuel stability and performance in modern heating fuel blends, helping keep systems operating cleanly and reliably.

Anti-Corrosion Package: Advanced anti-corrosion additives protect storage tanks, fuel lines, pumps, and burner components from rust and corrosion above and below the fuel line. It protects all metal components as tested by ASTM D130 (A-1 rating) and NACE (received an A rating).

Improved Combustion Efficiency: Advanced fuel and combustion catalyst promotes a cleaner, more complete burn to help heating systems deliver more usable heat energy (BTUs) while supporting reliable burner operation.

Cleaner Burning Fuel and Emission Reduction: Helps reduce soot and carbon buildup in burners, heat exchangers, and exhaust components, supporting cleaner system operation. Laboratory demonstrated reductions in greenhouse gases and emissions: CO₂ -95%, Hydrocarbons -15% (improves power), NO_x -60%, O₂ +19% (O₂ improves engine efficiency).

Cold Weather Protection: The formula improves cold-flow characteristics to help heating oil resist waxing and thickening in cold temperatures for more reliable winter operation. Laboratory testing demonstrated a pour point reduction of up to -18°F.



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THIRD PARTY TEST RESULTS MECHANIC IN A BOTTLE HEATING OIL SAVER (MHOS)

Oxidation Stability (Storage) (ASTM TEST D2274)

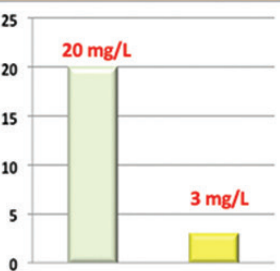
Expected life of diesel fuel / home heating oil is indicated by oxidation stability test ASTM D2274.

This test measures how much gum and sediment will be deposited after keeping the fuel at 95°C in the presence of oxygen for 16 hours (corresponds to approx. 1 Year Storage at 25°C).

A result of less than 20 mg/L of sediment and gum after the test is considered acceptable to normal fuel.

RESULT: Treating with DMIB / MHOS resulted in 85% less gum and sediment after 1 year of storage.

Sediment and Gum Left After 1 Year Storage



Base Fuel (Acceptable Sediment Level)

Treated with DMIB/MHOS

Corrosion Protection (ASTM TEST D130)

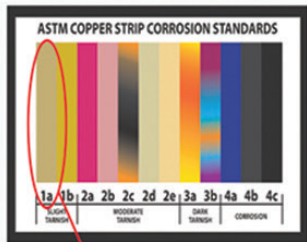
Evaluates the degree to which a lubricant will corrode copper-containing materials (i.e. bronze, brass)

- Rates oils by immersing a prepared copper strip in the lubricant at 2 temperatures in typical range of operation.

- Ratings range from "1a" with slight discoloration, but barely noticeable (similar to a freshly polished strip), to "4c" or severely corroded, blackened and pitted.

RESULT: DMIB / MHOS received the highest rating of "1a".

ASTM Copper Strip Corrosion Standards



DMIB / MHOS received a "1a" rating in the ASTM D130 test.

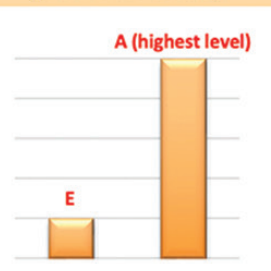
Corrosion Rating (NACE Standards) TEST for ferrous metals

Shows the rating from E (poor: 75 – 100% coated with rust) to A (excellent: 0% rust) of the ability to resist corrosion, per NACE standards.

NACE International is the world's leading professional organization for the corrosion control industry.

RESULT: DMIB / MHOS has the highest rating for corrosion resistance, vastly improving fuel's corrosion resistance beyond those without DMIB / MHOS.

Bottom Sample (where rust occurs)



Base Fuel

Treated with DMIB / MHOS

Pour Point (ASTM TEST D6371)

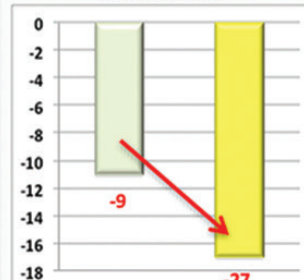
Engine power loss in Diesel / home heating equipment during winter is often traced back to Paraffin crystal formation restricting flow through fuel filters.

Freezing temperatures can also cause emulsified water to form a fuel / ice slush.

Pour Point is the temperature at which the Paraffin in fuel crystallizes to the point where fuel gels and resists flow.

RESULT: Pour Point improved (reduced) by 18° F when DMIB / MHOS was added to fuel.

Pour Point Improvement



Base Fuel

Treated with DMIB / MHOS

Lubricity (ASTM TEST D6079)

ASTM D6079 is a measure of lubricity in diesel fuel / home heating oil using the High-Frequency Reciprocating Rig (HFRR).

The HFRR may be used to evaluate relative effectiveness of fuels for preventing wear under the prescribed test conditions.

RESULT: Wear scar for diesel fuel / home heating oil treated with DMIB / MHOS was 38% less (320 Micron) than the spec of untreated base fuel (520 micron)

Wear Scar (Microns)



Base Fuel

Treated with DMIB / MHOS

Note: Testing was completed using a ratio of 1 ounce to 10 gallons of fuel



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