



Maintaining Mixed-Fuel Lubricated Engines



Selecting Your Product

- ✔ Use a nationally recognized, mid-grade unleaded gasoline with a minimum octane rating of 89 (R+M/2) or premium unleaded if the octane rating in your area is lower
- ✔ Fuel should contain no more than 10% ethanol (do not use E85)
- ✔ Choose engine oils that are designed for use only in air cooled two-cycle engines, not BIA or TCW rated mix oils for water-cooled engines



Mixing Your Fuel

- ✔ Use only STIHL two-stroke engine oil or a high-quality equivalent when mixing with fuel.
- ✔ When filling at the pump, place canister on the ground to avoid direct contact or accidental spills
- ✔ Pour oil into the canister first, add gasoline, close canister tightly and shake vigorously to ensure proper mixing




Storing Your Equipment

- ✔ Run engine until carburetor is dry to prevent diaphragm sticking or stiffness and place unit in a dry, secure location
- ✔ Dispose of remaining fuel properly in accordance with local environmental requirements
- ✔ During winterization, choose STIHL MotoMix® — an ethanol-free product designed for extended storage periods

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OPEI Ethanol Warning



"Adding alcohol to a fuel dramatically alters its shelf life", said Kris Kiser of the Outdoor Power Equipment Institute. "That combined ethanol and water can corrode the fuel delivery system, predominantly the carburetor," said Peter Sawchuk, of Consumer Reports. "It clogs it up and it can't start."

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"Ethanol is an alcohol, and it absorbs water," said Kris Kiser of the Outdoor Power Equipment Institute. "The longer you let it sit, it will phase separate; the fuel frankly separates from the water, and then you have either a starting problem or a performance problem and a corrosive problem."

The claims are backed by experts at "*Consumer Reports*" who say exposure to too much ethanol is even worse with snow blowers and generators.

"Both of those tend to sit in storage buildings where it gets warm, you get great variations in temperature and you're going to get this problem," Sawchuk said.

Boats, motors or for that matter, anything with a two-cycle motor, are vulnerable to ethanol.

"A lot of chain saws and lawn and garden equipment are two cycle," said Kiser. "It inhibits the ability of the oil and gasoline to mix."

The solution, they say, is to use fuel with ethanol of 10 percent or less. And drain the tank before storing.



STIHL MotoMix®

Eliminate the hassle of mixing your own oil and fuel mixture with STIHL MotoMix®. Clean and convenient, STIHL MotoMix® provides you with a premixed 50:1 fuel mixture, created with premium high-octane gasoline and the superior protection of STIHL HP Ultra oil.

MotoMix® doesn't use ethanol, allowing it to maintain stability for up to two years after the seal is broken, so it can be stored longer and will stay fresh in your equipment during storage periods. MotoMix® also is environmentally conscious – the fuel is non-aromatic and the engine oil is fully synthetic and highly biodegradable. Created for excellent engine performance and superior lubrication, it's no surprise that MotoMix® is the official fuel of the **STIHL® TIMBERSPORTS® Series**.