



TO: ALL AUTHORIZED SERVICE ACCOUNTS

No: 736

SUBJECT: OIL AND GASOLINE RECOMMENDATIONS

DATE: 6/06


MODELS: ALL BRIGGS & STRATTON 4-CYCLE GASOLINE ENGINES

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4-CYCLE ENGINE OIL RECOMMENDATIONS

Use a high quality detergent oil classified “For Service SF, SG, SH, SJ” or higher. Do not use special additives.

Choose a viscosity according to the table below.



Note: Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol (shown at left) with “SJ/CF ENERGY CONSERVING” or higher, is an acceptable oil at all temperatures. **Use of synthetic oil does not alter required oil change intervals.**

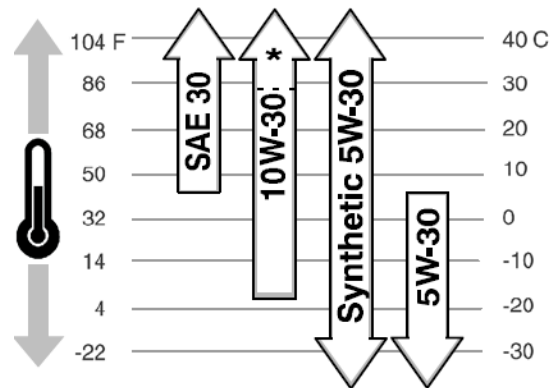
SAE 30 40°F and higher (5°C and higher) is good for all-purpose use above 40°F. Use below 40°F will cause hard starting.

10W-30 0 to 100°F (-18 to 38°C) is better for varying temperature conditions. This viscosity improves cold weather starting, but may increase oil consumption above 80°F (27°C).

*Check oil level frequently at higher temperatures

Synthetic 5W-30 -20 to 120°F (-30 to 40°C) provides the best protection in all temperatures, as well as improved starting with less oil consumption.

5W-30 40°F and below (5°C and below) is recommended for winter use and works best in cold conditions.



All Briggs & Stratton 4-Cycle Oils meet the lubrication requirements above and are available under the following part numbers:

- **100005** SAE 30 Lawnmower Oil – 20 oz. (591 ml)
- **100028** SAE 30 Lawnmower Oil – 48 oz. (1.4 L)
- **100084** SAE 30 Marine Oil – 24 oz. (710 ml)
- **100091** SAE 30 Fource™ Oil – 3 oz. (89 ml)
- **100074** SAE 5W-30 Synthetic Oil – 32 oz. (946 ml)
- **100030C** SAE 5W-30 Synthetic Blend Winter Oil – 32 oz. (946 ml)

4-CYCLE GASOLINE RECOMMENDATIONS

Fuel must meet these requirements:

- Clean, fresh, unleaded gasoline.
- A minimum of 87 octane/87 AKI (91 RON). High altitude use, see below.
- Gasoline with up to 10% ethanol (gasohol) or up to 15% MTBE (methyl tertiary butyl ether) is acceptable.

CAUTION: Do not use unapproved gasoline such as E85. Do not mix oil in gasoline, or modify engine to run on alternate fuels. This will damage the engine components and **void the engine warranty.**

To protect the fuel system from gum formation, mix in a fuel stabilizer when adding fuel. See **Storage**. All fuel is not the same. If you experience starting or performance problems after using fuel, switch to a different fuel provider or change brands. This engine is certified to operate on gasoline. The emission control system for this engine is EM (Engine Modifications).

High Altitude

At higher altitudes (over 5,000 feet), 85 octane/85 AKI (89 RON) gasoline is recommended. High-altitude use may require a carburetor jet kit to improve performance and decrease fuel consumption. See an Authorized Briggs & Stratton Dealer for more information.

Storage

Fuel will become stale when stored over 30 days. Stale fuel causes acids and gum deposits to form in the fuel system or on essential carburetor parts. Prior to storage, if gasoline has not been treated with a fuel stabilizer, it must be drained from the engine into an approved container. Then run engine until it stops from lack of fuel.

When fuel stabilizers are used according to their instructions, there is no need to drain the gasoline from the engine prior to storage. Use Briggs & Stratton FRESH START™ fuel stabilizer, available as a liquid additive or a drip concentrated liquid cartridge. Run the engine for a short time to circulate stabilizer throughout the fuel system. Engine and fuel can then be stored up to 24 months.

If gasoline is drained, the use of a fuel stabilizer in the storage container is still recommended to maintain freshness.

Briggs & Stratton Fresh Start™ fuel stabilizers meet the requirements above and are available under the following part numbers:

100031	Fresh Start Fuel Stabilizer Plus – Counter Display 36-Pack, 1 oz (30 ml) each
100002A	Fresh Start Fuel Stabilizer Plus – Counter Display 9-Pack, 4.2 oz. (124 ml) each
100006	Fresh Start Fuel Stabilizer Plus – Bulk 6-Pack, 32 oz. (946 ml) each
5058D	Fresh Start Fuel Stabilizer Plus – Three Pouch DIY, 1 oz. (30 ml) each
5041D	Fresh Start Fuel Stabilizer Plus – One Bottle DIY, 4.2 oz (124 ml)
5096D	Fresh Start Continuous Fuel Preserver – Fuel Cap and Cartridges DIY
5097D	Fresh Start Continuous Fuel Preserver – Replacement Cartridges DIY

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