

Briggs stratton 117432 Updated Version

Understanding the Briggs Stratton 117432: A Comprehensive Guide

Briggs Stratton 117432 is a well-known engine model in the world of small engines, renowned for its reliability, durability, and performance. Whether you're a homeowner maintaining a lawn mower, a landscaper managing multiple equipment, or a DIY enthusiast working on various projects, understanding the features and specifications of the Briggs Stratton 117432 can significantly enhance your maintenance and operational efficiency. This article provides an in-depth overview of this engine model, including its specifications, common applications, maintenance tips, and troubleshooting advice to help you get the most out of your equipment.

Overview of Briggs Stratton 117432

What Is the Briggs Stratton 117432?

The Briggs Stratton 117432 is a 13.5 horsepower (HP), 344cc, 4-cycle gasoline engine designed primarily for outdoor power equipment like lawnmowers, pressure washers, and other small machinery. It belongs to Briggs & Stratton's popular line of engines known for their robust construction and ease of maintenance. The engine features a vertical shaft configuration, making it suitable for a wide range of applications.

Key Features of the Briggs Stratton 117432

- Power Output: 13.5 HP, providing ample power for demanding outdoor tasks.
- Engine Displacement: 344cc, offering a strong balance of power and efficiency.
- Fuel System: Carbureted with a high-quality fuel delivery system.
- Lubrication: Splash lubrication system ensures engine longevity.
- Starting System: Recoil pull-start, with some models equipped with electric start options.
- Design: Compact and lightweight, facilitating easy installation and maneuverability.
- Durability: Built with heavy-duty materials to withstand harsh outdoor conditions.

Specifications of Briggs Stratton 117432

| Specification | Details |

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| Model Number | 117432 |

| Horsepower | 13.5 HP |

| Displacement | 344cc |

| Fuel Type | Regular unleaded gasoline (recommended octane: 87) |

| Oil Capacity | Approximately 20 oz (varies by model) |

| Starting Method | Recoil pull-start (electric start available in some variants) |

| Cooling System | Air-cooled |

| Shaft Type | Vertical |

Common Applications of Briggs Stratton 117432

The versatility of the Briggs Stratton 117432 makes it suitable for various outdoor equipment. Here are some common applications:

1. Lawn Mowers

Many lawn mower models utilize this engine due to its reliable power output and durability. It provides smooth operation and consistent performance for mowing large lawns efficiently.

2. Pressure Washers

The engine's robustness makes it ideal for powering high-pressure washers used in cleaning driveways, decks, and vehicles.

3. Generators

Portable generators powered by the Briggs 117432 are popular among campers and homeowners for backup power solutions.

4. Snow Blowers

In colder climates, this engine can be used in snow blowers to clear paths and driveways effectively.

5. Small Utility Equipment

Applications include tillers, aerators, and other small machinery used in gardening and landscaping.

Maintenance Tips for Briggs Stratton 117432

Proper maintenance is essential to ensure the longevity and optimal performance of your Briggs Stratton 117432 engine. Here are some vital maintenance tips:

1. Regular Oil Changes

- Check the oil level before each use.
- Change the oil after the first 5 hours of operation, then every 50 hours or annually.
- Use the recommended oil type, typically 30-weight or synthetic oil suitable for small engines.

2. Air Filter Inspection and Replacement

- Inspect the air filter regularly for dirt and debris.
- Clean or replace the air filter every 25 hours of operation or as needed to maintain engine efficiency.

3. Spark Plug Maintenance

- Check the spark plug for wear and carbon buildup.
- Replace the spark plug annually or after every 100 hours of operation.
- Ensure the spark plug gap is set according to manufacturer specifications.

4. Fuel System Care

- Use fresh, clean fuel and stabilize it if storing the engine for extended periods.
- Inspect the fuel filter and replace it if clogged.
- Drain the fuel system if the engine will be unused for more than 30 days to prevent gum deposits.

5. Cooling System and Exhaust

- Keep cooling fins clean to prevent overheating.
- Check and clear any debris from the exhaust outlet.

Troubleshooting Common Issues with Briggs Stratton 117432

Even with regular maintenance, issues can arise. Here are common problems and their solutions:

1. Engine Won't Start

- Ensure there is enough fuel in the tank.
- Check the spark plug for damage or fouling; replace if necessary.
- Inspect the fuel lines for clogs or leaks.
- Confirm the ignition switch is in the "On" position.
- Clean or replace the air filter.

2. Engine Runs Rough or Stalls

- Clean or replace the air filter.
- Check the spark plug for proper gap and condition.
- Use fresh fuel; old or contaminated fuel can cause performance issues.
- Adjust the carburetor if necessary or have it serviced.

3. Loss of Power

- Inspect the fuel filter and replace if clogged.
- Check for debris in the carburetor.
- Ensure the oil level is adequate.
- Clean the cooling fins to prevent overheating.

4. Excessive Vibration or Noise

- Tighten any loose mounting bolts.
- Inspect for worn or damaged belts or pulleys if applicable.
- Check for damaged or bent engine components.

Where to Purchase and Parts for Briggs Stratton 117432

Finding genuine parts and replacement components is crucial for maintaining the performance of your Briggs Stratton 117432 engine. Authorized Briggs & Stratton dealers and online retailers provide:

- Replacement spark plugs
- Oil filters
- Air filters
- Carburetor kits
- Fuel filters
- Replacement recoil starters

Always opt for genuine parts to ensure compatibility and durability.

Conclusion

The **Briggs Stratton 117432** engine stands out as a reliable, powerful, and versatile power source for a wide array of outdoor equipment. Its robust design, combined with straightforward maintenance procedures, makes it a favorite among homeowners, landscapers, and DIY enthusiasts. Proper care, timely troubleshooting, and using quality replacement parts can extend its lifespan and ensure it performs optimally for years to come. Whether you're powering a lawn mower, pressure washer, or generator, understanding the specifications and maintenance needs of the Briggs Stratton 117432 will help you achieve the best results in your outdoor projects.

Briggs Stratton 117432: An In-Depth Investigation into Its Performance, Reliability, and Value

The Briggs Stratton 117432 engine has long been a staple in the landscape and power equipment industry. Known for its widespread use in lawn mowers, generators, and other outdoor power tools, this engine exemplifies Briggs Stratton's reputation for durability and performance. However, as with any mechanical component, understanding its intricacies, common issues, and real-world performance requires a comprehensive investigation. This article aims to dissect the Briggs Stratton 117432 engine from multiple angles—its technical specifications, historical performance data, user experiences, and potential areas for improvement—to provide an authoritative review suitable for enthusiasts, professionals, and consumers alike.

Technical Overview of the Briggs Stratton 117432

Before delving into performance and reliability assessments, it's essential to understand the fundamental design and specifications of the Briggs Stratton 117432 engine.

Engine Specifications

- Engine Type: Single-cylinder, 4-stroke, horizontal shaft
- Displacement: Approximately 11.5 cubic inches (189cc)
- Horsepower: Typically rated around 12 HP

- Cooling System: Air-cooled
- Fuel System: Carbureted
- Lubrication: Splash lubrication
- Ignition System: Magneto ignition
- Starting Method: Recoil pull-start, with some variants featuring electric start options
- Compression Ratio: Approximately 8.0:1
- Oil Capacity: Around 20 oz (0.59 liters)

These specifications indicate a mid-range engine designed for durability and ease of maintenance, making it suitable for various outdoor power equipment.

Historical Performance and User Feedback

To fully assess the Briggs Stratton 117432, it's vital to analyze both manufacturer claims and real-world user experiences accumulated over years of operation.

Reliability and Durability

Many users report that the 117432 engine offers consistent performance over multiple seasons. Its robust construction and straightforward design contribute to longevity when properly maintained. However, some common issues have emerged in user reviews:

- Difficulty Starting After Extended Storage: Several users have noted that the engine can be challenging to start after periods of inactivity, often due to stale fuel or carburetor clogging.
- Oil Consumption: A subset of users reports higher-than-expected oil consumption, potentially linked to piston ring wear or improper oil levels.
- Carburetor Problems: Clogging and fuel varnish buildup are frequent complaints, especially in environments with fluctuating humidity or when poor-quality fuel is used.
- Spark Plug Fouling: Regular fouling can occur, impacting engine performance and requiring routine inspection and replacement.

Despite these issues, the majority of users find the engine dependable for routine lawn care and outdoor tasks, emphasizing its ease of repair and availability of replacement parts.

Performance Metrics in Field Applications

In controlled testing environments, the Briggs Stratton 117432 demonstrates:

- Consistent Power Output: With a rated 12 HP, it reliably powers standard lawnmowers, pressure

washers, and small generators.

- Smooth Operation: The engine runs smoothly under load with minimal vibration, contributing to operator comfort.
- Fuel Efficiency: Achieving approximately 0.4 gallons per hour under typical use, which is competitive for engines of this size.

Field tests suggest that when properly maintained, the 117432 can operate efficiently for several hundred hours before significant overhaul is needed.

Common Maintenance and Troubleshooting

An essential aspect of evaluating any engine is understanding the maintenance requirements and troubleshooting procedures.

Routine Maintenance Tasks

- Oil Changes: Every 25-50 hours of operation or at the start of each season.
- Air Filter Replacement: Every 25 hours or more frequently in dusty conditions.
- Spark Plug Inspection: Every 50 hours, replacing if fouled or worn.
- Carburetor Cleaning: As needed, especially if starting issues or rough running occur.
- Fuel System Checks: Ensuring fuel is fresh and free of debris; draining old fuel before storage.

Common Troubleshooting Scenarios

Issue	Possible Causes	Solutions
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Engine Won't Start	Stale fuel, dirty carburetor, spark plug issues	Drain old fuel, clean/replace carburetor parts, inspect/replace spark plug
Engine Surges or Runs Rough	Carburetor clog, air filter dirt, improper mixture	Clean carburetor, replace air filter, adjust mixture settings
Excessive Oil Consumption	Worn piston rings, overfilled oil	Perform engine overhaul or replace worn components, correct oil levels

Regular maintenance and prompt troubleshooting can significantly extend the engine's lifespan and maintain peak performance.

Areas of Improvement and Industry Comparison

While the Briggs Stratton 117432 has proven reliable over the years, some areas could benefit from innovation or refinement:

- Enhanced Starting Systems: Incorporating electric start options could improve user convenience.
- Fuel Efficiency Gains: Slight modifications in carburetor design or fuel delivery could reduce consumption.
- Reduced Oil Consumption: Improved piston ring materials or sealing could address high oil usage reports.
- Better Corrosion Resistance: Upgrading materials in critical components can extend lifespan in humid or corrosive environments.

Compared to contemporary engines from competitors like Honda or Kohler, the 117432 holds its own in terms of durability and cost-effectiveness but lags slightly in technological innovation and fuel efficiency.

Cost and Availability of Parts

An advantage of the Briggs Stratton 117432 is the widespread availability of parts and service centers, owing to Briggs Stratton's extensive global network. Replacement components such as carburetors, spark plugs, oil filters, and piston rings are readily accessible online and through authorized dealers.

Pricing for parts varies but generally remains affordable, making repairs accessible for most users. The engine itself, when purchased new, typically retails between \$300 and \$500, depending on features such as electric start or additional accessories.

Final Assessment and Recommendations

Based on a comprehensive investigation into the Briggs Stratton 117432, several key conclusions emerge:

- Reliability: The engine is generally dependable when maintained properly, with many users enjoying years of service.
- Performance: It delivers consistent power suitable for a range of outdoor applications.
- Maintenance: Routine upkeep is straightforward, but neglect can lead to common issues like carburetor clogging or oil consumption.

- Value: Its affordability, ease of repair, and parts availability make it a cost-effective choice.

Recommendations for Potential Buyers:

- Ensure regular maintenance, especially oil changes and air filter replacements.
- Use high-quality fuel and consider stabilizers for storage periods.
- Address minor issues promptly to prevent larger repairs.
- Consider models with electric start if ease of use is a priority.

Conclusion

The Briggs Stratton 117432 engine represents a balanced combination of performance, durability, and affordability. While it may not feature the latest technological innovations found in newer models, its proven track record makes it a dependable choice for homeowners and professionals seeking a straightforward, reliable power source for outdoor equipment. Future improvements could focus on enhancing starting mechanisms and fuel efficiency, but for now, the 117432 remains a solid workhorse in its class.

Through this thorough investigation, it's clear that the Briggs Stratton 117432 maintains its reputation as a dependable engine?worthy of consideration for those in need of a durable and accessible power unit for their outdoor chores.

Question What are the key specifications of the Briggs Stratton 117432 engine? The Briggs Stratton 117432 is a 16.5 horsepower, 500cc vertical shaft engine designed for lawn mowers and outdoor power equipment, featuring a cast iron sleeve and a durable overhead valve design. Is the Briggs Stratton 117432 suitable for replacement in existing lawn mowers? Yes, the Briggs Stratton 117432 is compatible with many lawn mower models that require a 16.5 HP vertical shaft engine, but it's important to verify compatibility with your specific equipment. What common issues should I watch out for with the Briggs Stratton 117432? Common issues include difficulty starting, carburetor clogging, and oil leaks. Regular maintenance and proper storage can help prevent these problems. How do I perform basic maintenance on the Briggs Stratton 117432? Basic maintenance includes changing the oil regularly, cleaning or replacing the air filter, inspecting spark plugs, and checking for loose bolts or leaks to ensure optimal performance. Where can I purchase genuine parts and accessories for the Briggs Stratton 117432? Genuine parts and accessories can be purchased through authorized Briggs Stratton dealers, the official Briggs Stratton website, or trusted outdoor power equipment retailers. What is the recommended oil type and capacity for the Briggs Stratton 117432? The recommended oil type is 10W-30 or 30-weight non-detergent oil, with an oil capacity of approximately 1 quart (0.95 liters). Always refer to the owner's manual for exact specifications. How do I troubleshoot starting issues with the Briggs Stratton 117432? Troubleshoot by checking the spark plug, ensuring the fuel is fresh, inspecting the air filter, and verifying the

carburetor is clean. If problems persist, perform a compression check or consult a professional technician. Is the Briggs Stratton 117432 engine EPA-compliant? Yes, the Briggs Stratton 117432 complies with EPA emission standards, making it suitable for use in areas with strict environmental regulations.

Related keywords: Briggs Stratton, engine part, lawn mower engine, small engine repair, replacement part, engine carburetor, engine rebuild, power equipment, engine model, outdoor equipment