

Case 580 Super Le Ficha Tecnica



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The Case 580 Super LE is a versatile and powerful backhoe loader that has become a staple in the construction and agricultural industries. Known for its durability, efficiency, and advanced technological features, the 580 Super LE is designed to tackle a wide range of tasks. This article will explore the technical specifications, features, performance, and maintenance of the Case 580 Super LE, providing an in-depth understanding of this exceptional machine.

Technical Specifications

The technical specifications of the Case 580 Super LE highlight its capabilities and performance metrics. Below are the key specifications:

Engine

- Model: Case 4-390
- Type: Diesel, 4-cylinder
- Displacement: 3.9 liters
- Power Output: 99 horsepower (74 kW) at 2,200 RPM
- Torque: 300 Nm at 1,400 RPM
- Fuel Capacity: 83 liters (22 gallons)
- Cooling System: Liquid-cooled

Transmission

- Type: Power-shift transmission
- Number of Gears: 4 forward and 4 reverse
- Maximum Speed: 40 km/h (25 mph)

Dimensions

- Overall Length: 5,850 mm (230.3 inches)
- Overall Width: 2,250 mm (88.6 inches)
- Overall Height: 3,200 mm (126.0 inches)
- Wheelbase: 2,790 mm (109.8 inches)
- Ground Clearance: 300 mm (11.8 inches)

Operating Weight

- Total Operating Weight: 7,636 kg (16,850 lbs)

- Front Loader Capacity: 1,200 kg (2,645 lbs)
- Backhoe Digging Depth: 4,400 mm (173.2 inches)
- Backhoe Reach: 5,700 mm (224.4 inches)

Features and Innovations

The Case 580 Super LE is equipped with several innovative features that enhance its performance and user experience. These features include:

Ergonomic Design

- Operator's Cabin: The cabin is spacious with excellent visibility, allowing operators to have a clear view of the worksite.
- Controls: All controls are intuitively placed within easy reach, improving operator comfort and reducing fatigue.
- Suspension Seat: The adjustable seat provides additional comfort during long working hours.

Hydraulic System

- Load-Sensing Hydraulics: The advanced hydraulic system adjusts flow and pressure automatically to match the load requirements, improving efficiency.
- Auxiliary Hydraulics: The machine can be equipped with auxiliary hydraulic connections to operate various attachments, increasing versatility.

Safety Features

- Rollover Protective Structure (ROPS): The cabin is designed to protect the operator in case of accidental rollover.
- Falling Object Protective Structure (FOPS): The roof is reinforced to guard against falling objects.
- Emergency Stop: An easily accessible emergency stop button is located within the operator's reach.

Performance

The Case 580 Super LE is known for its high performance across various applications. This section details its capabilities in different scenarios.

Excavation and Digging

- Digging Power: The backhoe's powerful digging arm and bucket allow for efficient excavation and material handling.
- Versatility: The machine can easily switch between different attachments, such as augers and grapples, to suit various tasks.
- Precision Control: The hydraulic system provides precise control over digging operations, ensuring accurate trenching and excavation.

Loading and Material Handling

- Loading Capacity: With a front loader capacity of 1,200 kg, the Case 580 Super LE is capable of handling heavy materials such as gravel, sand, and soil.
- Bucket Options: Operators can choose from various bucket sizes and types to optimize performance for specific tasks.

- **Stacking Performance:** The machine's height and reach capabilities allow for efficient stacking and loading operations.

Transport and Mobility

- **High Travel Speed:** With a maximum speed of 40 km/h (25 mph), the Case 580 Super LE can quickly move between job sites.
- **Four-Wheel Drive:** The all-wheel drive system enhances traction and stability, making the machine suitable for various terrains.
- **Maneuverability:** The compact design and tight turning radius enable easy maneuvering in confined spaces.

Maintenance and Serviceability

Proper maintenance is essential to ensure the longevity and performance of the Case 580 Super LE. Here are some maintenance tips and service recommendations:

Regular Maintenance Checks

- **Daily Inspections:** Operators should conduct daily inspections to check fluid levels, tire pressures, and overall machine condition.
- **Service Intervals:** Follow the manufacturer's recommended service intervals for oil changes, filter replacements, and hydraulic fluid checks.
- **Lubrication:** Regularly lubricate pivot points, joints, and other moving parts to prevent wear and tear.

Common Maintenance Tasks

1. Oil Change: Change engine oil every 250 hours of operation or as specified in the owner's manual.
2. Filter Replacement: Replace hydraulic and air filters regularly to ensure optimal performance.
3. Tire Maintenance: Inspect tires for wear and maintain proper inflation to enhance fuel efficiency and extend tire life.

Using Genuine Parts

- Always use genuine Case parts for replacements to maintain the integrity and performance of the machine.
- Genuine parts are designed specifically for the Case 580 Super LE, ensuring compatibility and reliability.

Conclusion

The Case 580 Super LE is a powerful, efficient, and versatile machine that offers exceptional performance across a wide range of applications. With its advanced features, ergonomic design, and strong hydraulic system, the 580 Super LE is well-suited for construction, landscaping, and agricultural tasks. Proper maintenance, combined with the use of genuine parts, ensures that this backhoe loader remains a reliable workhorse for years to come. Whether you are a contractor, farmer, or DIY enthusiast, the Case 580 Super LE is an investment that will pay off in productivity and efficiency.

Frequently Asked Questions

What is the engine specification of the Case 580 Super LE?

The Case 580 Super LE is equipped with a 4-cylinder, turbocharged diesel engine that typically offers around 74 horsepower.

What are the dimensions of the Case 580 Super LE?

The dimensions of the Case 580 Super LE are approximately 18.3 feet in length, 6.5 feet in width, and 8.2 feet in height, with a wheelbase of about 6.9 feet.

What type of hydraulic system does the Case 580 Super LE use?

The Case 580 Super LE features a closed-center hydraulic system that enhances efficiency and allows for simultaneous operation of multiple functions.

What is the maximum digging depth of the Case 580 Super LE?

The maximum digging depth of the Case 580 Super LE is approximately 14.5 feet, making it suitable for various excavation tasks.

What is the weight of the Case 580 Super LE?

The operating weight of the Case 580 Super LE is around 8,000 to 9,000 pounds, depending on the configuration and attachments.

What are the key features of the Case 580 Super LE's cab?

The cab of the Case 580 Super LE is designed for operator comfort, featuring ergonomic controls, climate control options, and excellent visibility.

What types of attachments are compatible with the Case 580 Super LE?

The Case 580 Super LE is compatible with a variety of attachments including backhoes, loaders, forks, and various hydraulic implements for versatile usage.

What is the fuel capacity of the Case 580 Super LE?

The fuel tank capacity of the Case 580 Super LE is approximately 20 gallons, allowing for extended operational periods between refueling.

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