

allis chalmers service manual f50 2 5 Study Guide

Allis Chalmers Service Manual F50 2 5 is an essential resource for owners, technicians, and enthusiasts seeking to maintain, repair, or restore the Allis Chalmers F50 2 5 tractor. This comprehensive manual provides detailed instructions, schematics, and specifications that ensure proper upkeep and optimal performance of this iconic piece of agricultural machinery. Whether you're a seasoned mechanic or a hobbyist working on your vintage tractor, understanding the value and contents of this service manual can significantly enhance your troubleshooting and maintenance efforts.

Introduction to the Allis Chalmers F50 2 5

The Allis Chalmers F50 2 5 is a vintage tractor model renowned for its durability, versatility, and classic design. Introduced in the 1950s, it became a popular choice among farmers for its power and reliability. The "2 5" designation typically refers to the engine model or specific configurations within the F50 series, which are crucial for identifying the correct service manual and parts.

Understanding the specifications of the F50 2 5 is fundamental for effective maintenance. It features a four-cylinder engine, standard transmission, and various attachments suitable for a range of agricultural tasks. Proper service and maintenance are vital to ensure longevity and performance, which makes having the right manual indispensable.

What Is Included in the Allis Chalmers Service Manual F50 2 5?

The service manual for the Allis Chalmers F50 2 5 covers all aspects of tractor maintenance, repair, and troubleshooting. Here are the primary contents typically included:

Technical Specifications

- Engine details: type, horsepower, bore, stroke, compression ratio
- Hydraulic system specifications
- Electrical system details
- Dimensions and weight
- Operational capacities (oil, fuel, coolant)

Engine Repair and Maintenance

- Disassembly and assembly procedures
- Valve adjustments
- Fuel system servicing
- Lubrication points and oil change procedures
- Troubleshooting engine issues

Transmission and Driveline

- Gearbox repair instructions
- Clutch adjustment and replacement
- Drive shaft and differential servicing

Electrical System

- Wiring diagrams
- Battery maintenance
- Starter and alternator troubleshooting
- Lighting and instrument panel servicing

Hydraulic System

- Hydraulic pump and cylinder repair
- Fluid specifications and replacement procedures
- Control valve adjustments

Operational and Safety Guidelines

- Starting procedures
- Safety precautions during maintenance
- Proper attachment and implement usage

Benefits of Using the Allis Chalmers Service Manual F50 2 5

Having access to the official service manual offers numerous advantages for maintaining your F50 2 5:

Accurate Troubleshooting

The manual provides detailed diagnostic procedures, making it easier to identify and fix issues efficiently. It minimizes guesswork and ensures repairs are performed correctly the first time.

Cost-Effective Maintenance

By following the manual's instructions, owners can perform many repairs themselves, reducing labor costs and avoiding unnecessary parts replacements.

Preservation of Value

Proper maintenance based on the manual helps preserve the tractor's value and functionality, especially important for collectors and vintage machinery enthusiasts.

Extended Equipment Lifespan

Regular and correct servicing prolongs the operational life of the tractor, ensuring it remains reliable for years to come.

Learning and Skill Development

For those interested in mechanical work, the manual serves as an educational resource, deepening understanding of tractor systems.

How to Obtain the Allis Chalmers Service Manual F50 2 5

Finding authentic and comprehensive copies of the Allis Chalmers F50 2 5 service manual can be achieved through several avenues:

Official Sources

- Contact Allis Chalmers or their authorized dealers for original manuals.
- Visit Allis Chalmers historical archives or authorized parts distributors.

Online Marketplaces

- Websites like eBay often feature vintage manuals for sale.
- Specialized tractor manual websites and forums may offer downloadable PDFs or printed copies.

Libraries and Technical Archives

- Some libraries or agricultural colleges maintain collections of vintage machinery manuals.
- Digital archives or repositories dedicated to vintage machinery often host these manuals.

Tips for Using the Service Manual Effectively

To maximize the benefits of your Allis Chalmers F50 2 5 service manual, consider the following tips:

Keep the Manual Accessible

Store it in a safe, easily accessible location near your tractor or workshop.

Follow Procedures Step-by-Step

Adhere strictly to the instructions provided, especially during complex repairs.

Use Proper Tools and Parts

Ensure that all tools and replacement parts match the specifications in the manual.

Document Your Work

Maintain a record of repairs and maintenance performed for future reference.

Join Enthusiast Communities

Engage with online forums or local clubs dedicated to vintage tractors. Sharing experiences can provide additional insights beyond the manual.

Conclusion

The **Allis Chalmers Service Manual F50 2 5** is a vital resource that empowers owners and mechanics to maintain and repair this classic tractor effectively. Its detailed instructions, diagrams, and specifications facilitate accurate troubleshooting and efficient repairs, helping preserve the tractor's functionality and value. Whether restoring a vintage model or performing routine maintenance, having the right manual on hand makes all the difference. By sourcing authentic copies and following best practices, you can ensure your Allis Chalmers F50 2 5 remains a reliable workhorse for years to come.

Allis Chalmers Service Manual F50 2 5: A Comprehensive Guide for Restoration and Maintenance

When it comes to vintage agricultural equipment, few names evoke as much respect as Allis Chalmers, especially their iconic F50 model. The Allis Chalmers Service Manual F50 2 5 serves as an essential resource for enthusiasts, mechanics, and collectors aiming to restore, maintain, or repair this classic tractor. Whether you're a seasoned technician or a dedicated hobbyist, understanding the depths of your service manual can make all the difference in ensuring your F50 runs smoothly for years to come.

Introduction to the Allis Chalmers F50 and Its Significance

The Allis Chalmers F50 was produced during the 1950s and early 1960s, renowned for its durability, simplicity, and versatility on farms. Powered by a 2.5-liter engine, it was designed to handle a variety of tasks—from plowing to hauling—making it a favorite among farmers of the era. Restoring or maintaining an F50 requires detailed knowledge, and the Allis Chalmers Service Manual F50 2 5 provides precisely that, offering step-by-step procedures, technical specifications, and troubleshooting tips.

What Is Included in the Allis Chalmers Service Manual F50 2 5?

The service manual is a comprehensive document that covers all aspects of the F50 tractor. Here's a breakdown of its typical contents:

- General Information & Specifications
 - Tractor overview and history
 - Technical specifications (engine, transmission, hydraulics)
 - Serial number identification guides
- Engine Disassembly & Rebuild
 - Engine removal instructions
 - Parts identification and specifications
 - Torque settings and assembly procedures
- Electrical System
 - Wiring diagrams
 - Battery, ignition, and lighting troubleshooting
- Transmission & Driveline
 - Gearbox disassembly
 - Clutch inspection and replacement
- Hydraulic System
 - Hydraulic pump and cylinder maintenance
 - Hydraulic fluid specifications

- Lubrication & Maintenance
- Routine service schedules
- Oil types and capacities
- Troubleshooting & Diagnostics
- Common issues and solutions
- Diagnostic procedures
- Attachments & Implements
- Compatibility and installation instructions
- Maintenance tips for mounted equipment

Having access to this manual ensures you can approach repairs with confidence, knowing you're following manufacturer-approved procedures.

Why Is the Service Manual F50 2 5 Essential for Restoration?

Restoring a vintage tractor like the Allis Chalmers F50 is a rewarding endeavor but can be complex without proper documentation. Here's why the service manual is indispensable:

- **Authentic Restoration:** Ensures parts are replaced with correct specifications, preserving the tractor's value and functionality.
- **Accurate Troubleshooting:** Helps identify issues precisely, saving time and reducing guesswork.
- **Technical Clarity:** Provides detailed illustrations and diagrams that clarify complex mechanical processes.
- **Safety Assurance:** Guides safe disassembly and reassembly, preventing accidents or damage.
- **Cost Efficiency:** Reduces the risk of costly mistakes by following proven procedures.

Step-by-Step Guide to Using the Service Manual for F50 2 5 Maintenance and Repair

- Preparing Your Workspace and Tools

Before diving into repairs, set up a clean, well-lit workspace. Gather essential tools such as:

- Socket and wrench sets
- Screwdrivers
- Pliers
- Torque wrench
- Jack stands or blocks
- Drain pans for fluids

Having the manual on hand allows quick reference to specifications and procedures.

- Familiarizing Yourself with the Manual

- Identify your tractor's serial number to access the correct version of the manual.
- Review the table of contents to locate sections relevant to your project.
- Study exploded diagrams to understand assembly relationships.

- Performing Routine Maintenance

Using the manual, perform tasks like:

- Changing engine oil and filter
- Inspecting and replacing belts and hoses
- Checking and adjusting the valve clearance
- Lubricating moving parts as specified

Regular maintenance prolongs the tractor's life and prevents major issues.

- Engine Disassembly and Rebuild

Follow the detailed procedures in the manual for:

- Removing the engine from the tractor
- Disassembling components (cylinders, pistons, valves)
- Inspecting parts for wear or damage
- Replacing worn components with correct parts
- Reassembling with specified torque settings

- Transmission and Driveline Repair

Use the manual to:

- Drain and refill transmission fluid
- Disassemble the gearbox for inspection
- Replace damaged gears or bearings
- Reassemble ensuring proper gear engagement

- Hydraulic System Maintenance

The manual provides guidance on:

- Checking hydraulic fluid levels
- Replacing hydraulic filters and seals
- Servicing hydraulic cylinders and pumps

- Electrical System Troubleshooting

Leverage wiring diagrams to:

- Diagnose electrical faults
- Replace or repair wiring harnesses
- Test the charging system and batteries

Tips for Effective Use of the Allis Chalmers Service Manual F50 2 5

- Always follow safety precautions outlined in the manual.
- Keep the manual clean and accessible during repairs.
- Use proper tools as specified; improper tools can damage parts.
- Note serial number variations; some procedures may differ between production years.
- Take photographs during disassembly to assist reassembly.
- Record torque settings and adjustments for future reference.
- Join online forums or local clubs for shared tips and advice specific to the F50.

Common Challenges and How the Manual Helps Overcome Them

Issue 1: Engine Loss of Power

- The manual guides you through troubleshooting fuel delivery, compression, and ignition systems.

Issue 2: Transmission Slipping or Grinding

- Step-by-step instructions for inspecting and replacing clutch components.

Issue 3: Hydraulic System Leaks

- Diagrams and procedures for inspecting hydraulic seals and cylinders.

Issue 4: Electrical Failures

- Wiring diagrams and troubleshooting flowcharts facilitate quick diagnosis.

Having a detailed manual reduces guesswork, accelerates repairs, and restores confidence in your restoration project.

Final Thoughts: The Value of the Allis Chalmers Service Manual F50 2 5

Investing in the Allis Chalmers Service Manual F50 2 5 is an investment in your tractor's longevity and your own mechanical skills. Whether you're restoring a barn find or maintaining a treasured vintage workhorse, this manual provides the detailed, accurate information necessary to get the job done right. It's more than just a guide; it's a bridge to understanding the inner workings of a classic piece of agricultural machinery, ensuring that your F50 continues to serve faithfully for generations to come.

Remember: Proper maintenance and restoration not only preserve the history and value of your Allis Chalmers F50 but also ensure safe and reliable operation. With the right manual and a methodical approach, you'll be well on your way to keeping this classic tractor in prime condition.

Question Where can I find the official Allis Chalmers F50 2.5 service manual? You can obtain the official Allis Chalmers F50 2.5 service manual through authorized dealer networks, vintage tractor parts suppliers, or online archives dedicated to classic tractor manuals. **What are the common maintenance procedures covered in the Allis Chalmers F50 2.5 service manual?** The manual typically includes procedures for engine repair, lubrication, electrical system troubleshooting, hydraulic system maintenance, and routine inspections specific to the F50 2.5 model. **How can I troubleshoot engine issues on the Allis Chalmers F50 2.5 using the service manual?** The service

manual provides step-by-step diagnostic procedures, troubleshooting charts, and repair instructions to identify and resolve engine problems effectively. Are there specific safety precautions I should follow when using the Allis Chalmers F50 2.5 service manual? Yes, the manual emphasizes safety precautions such as disconnecting power sources, wearing protective gear, and following proper lifting and handling procedures to prevent accidents during maintenance. Can I use the Allis Chalmers F50 2.5 service manual for parts replacement guidance? Absolutely, the manual includes detailed parts diagrams, part numbers, and replacement instructions to assist with accurate parts replacement and maintenance. Is the Allis Chalmers F50 2.5 service manual suitable for DIY repairs? Yes, the manual is designed to assist both professional technicians and experienced DIY enthusiasts with comprehensive repair and maintenance instructions. How often should I consult the Allis Chalmers F50 2.5 service manual for routine maintenance? Routine maintenance intervals are typically outlined in the manual, and it is recommended to consult it regularly to ensure optimal performance and longevity of the tractor.

Related keywords: Allis Chalmers, F50, service manual, tractor manual, agricultural equipment, maintenance guide, repair manual, farm tractor, machinery manual, Allis Chalmers F50 repair

allis chalmers 670t engine specifications

Allis Chalmers 670T Engine Specifications

The Allis Chalmers 670T is a renowned piece of agricultural machinery celebrated for its robust performance and durability. Central to its effectiveness is its engine, which powers the tractor through demanding farming tasks. Understanding the Allis Chalmers 670T engine specifications provides valuable insights into its capabilities, maintenance requirements, and suitability for various farming applications. In this comprehensive guide, we delve into every aspect of the engine, from its technical details to its operational features, ensuring enthusiasts and professionals alike have a thorough understanding of this classic machine.

Overview of the Allis Chalmers 670T Tractor

Before exploring the engine specifications, it's essential to understand the context of the Allis Chalmers 670T tractor itself. Manufactured primarily in the late 20th century, the 670T is a versatile, articulated tractor designed for heavy-duty farming tasks such as plowing, hauling, and tilling. Its reputation is built on durability, ease of maintenance, and reliable power output, largely attributed to its engine.

Engine Type and Design

The core of the Allis Chalmers 670T is its diesel engine, which was engineered for high torque and efficiency.

Engine Type

- Model: Typically equipped with a 4-cylinder, 4-stroke diesel engine.
- Configuration: Inline (straight) cylinder layout.
- Cooling System: Water-cooled to maintain optimal operating temperatures.
- Fuel System: Direct injection system for improved combustion efficiency.

Design Features

- Durable cast-iron engine block for longevity.
- Heavy-duty pistons designed to withstand high compression.
- Overhead valve (OHV) configuration to optimize airflow and power.
- Built-in oil filtration system to prolong engine life.

Engine Specifications in Detail

Below is a detailed breakdown of the key specifications for the Allis Chalmers 670T engine:

Displacement and Bore-Stroke

- Engine Displacement: Approximately 3.3 liters (200 cubic inches).
- Bore Diameter: Around 3.375 inches (85.7 mm).
- Stroke Length: Approximately 4.0 inches (101.6 mm).

This displacement provides a good balance between power and fuel efficiency, enabling the tractor to perform heavy-duty tasks without excessive fuel consumption.

Power Output

- Gross Horsepower (HP): Approximately 85-90 HP at rated RPM.
- Net Horsepower: Slightly lower, around 80 HP, accounting for auxiliary components.
- Rated RPM: Typically around 2000 RPM for optimal performance.

Compression Ratio

- Usually set at around 16:1, optimized for diesel fuel combustion, ensuring maximum torque and efficiency.

Lubrication and Cooling

- Lubrication System: Full-pressure lubrication with a splash system supplement.
- Cooling System: Water-cooled with a thermostatically controlled radiator.
- Fan Type: Mechanical belt-driven fan for effective heat dissipation.

Fuel System

- Type: Direct injection.
- Fuel Consumption: Approximately 0.4-0.5 gallons per hour under typical load conditions.
- Fuel Filter: Multiple filtration stages to prevent contaminants.

Engine Performance and Capabilities

The Allis Chalmers 670T engine is designed for durability and consistent performance. Its high torque output at low RPMs makes it suitable for heavy pulling and tillage work. The engine's robust construction ensures longevity even under demanding operational conditions.

Torque Characteristics

- Peak torque occurs at low RPMs, around 1200 RPM.
- Torque output ranges from 200 to 250 lb-ft, depending on specific engine configuration and adjustments.

Operational Efficiency

- The engine's design allows for smooth operation with minimal vibration.
- Its fuel injection system improves combustion efficiency, reducing emissions and fuel costs.
- Easy to start with reliable cold weather operation due to glow plug systems.

Maintenance and Troubleshooting

Proper maintenance is critical to keep the Allis Chalmers 670T engine running optimally. Regular inspections, oil changes, and component checks ensure longevity and performance.

Scheduled Maintenance Tasks

- Oil Changes: Every 100-200 hours of operation.
- Air Filter Replacement: Every 50-100 hours or when dirty.
- Fuel Filter Replacement: Every 150-200 hours.
- Coolant Checks: Regularly verify coolant levels and replace coolant every 2-3 years.
- Valve Adjustments: As specified in the maintenance manual, typically every 1000 hours.

Common Troubleshooting Tips

- Difficulty Starting: Check battery, glow plug operation, and fuel delivery.
- Loss of Power: Inspect air filters, fuel filters, and consider possible injector issues.
- Overheating: Verify coolant levels, radiator cleanliness, and water pump operation.
- Excessive Smoke: Could indicate fuel injection problems or worn piston rings.

Upgrades and Compatibility

While the original engine specifications define the factory setup, some operators choose upgrades or modifications for increased performance or efficiency.

Possible Upgrades

- Aftermarket fuel injectors for better atomization.
- Upgraded cooling systems for prolonged heavy-duty use.
- Electronic engine control modules (ECMs) for precise management.

Compatibility Considerations

- Ensure replacement parts meet OEM specifications.
- Consult with manufacturers or experts for modifications to avoid engine damage.

Conclusion

The Allis Chalmers 670T engine specifications highlight a well-engineered, durable powerplant capable of supporting heavy-duty agricultural operations. Its combination of displacement, horsepower, torque, and reliability makes it a favorite among farmers and machine enthusiasts. Proper understanding of its specifications and maintenance needs ensures the engine continues to

operate smoothly, providing years of dependable service. Whether restoring an old tractor or maintaining a working unit, knowing these details is essential for optimal performance and longevity.

Allis Chalmers 670T Engine Specifications: A Comprehensive Breakdown

The Allis Chalmers 670T engine specifications are a topic of significant interest for vintage tractor enthusiasts, collectors, and restoration specialists. As one of the most recognizable engines from the legendary Allis Chalmers lineup, the 670T engine embodies a blend of power, durability, and engineering ingenuity that has stood the test of time. Whether you're restoring a classic tractor, evaluating a potential purchase, or simply seeking a detailed technical understanding, this guide aims to provide an in-depth look into the core specifications, design features, and performance aspects of the Allis Chalmers 670T engine.

Overview of the Allis Chalmers 670T Engine

The Allis Chalmers 670T engine was part of the company's robust lineup of industrial and agricultural power units. Known for its reliability and straightforward design, the 670T was often used in agricultural tractors, combines, and other heavy-duty machinery. Its architecture reflects the engineering standards of the era, focused on durability, ease of maintenance, and efficient power delivery.

Key Features of the Allis Chalmers 670T Engine

- Type: Four-cylinder, in-line diesel engine
- Cooling System: Water-cooled
- Fuel System: Direct injection
- Lubrication: Pressurized lubrication with oil filter
- Aspiration: Naturally aspirated (some variants or modifications might include turbocharging)
- Operational RPM Range: Typically 1800-2000 RPM for optimal performance

Core Technical Specifications

Engine Dimensions and Weight

Understanding the physical size and weight of the 670T engine is crucial for restoration and installation purposes.

- Engine Length: Approximately 50 inches (127 cm)
- Width: Around 24 inches (61 cm)

- Height: About 36 inches (91 cm)
- Dry Weight: Estimated at 1,200-1,400 pounds (544-635 kg)

These dimensions highlight the engine's substantial size, reflecting its heavy-duty design.

Displacement and Bore/Stroke

- Displacement: 4.9 liters (299 cubic inches)
- Bore: 4.25 inches (108 mm)
- Stroke: 5.0 inches (127 mm)

The slightly longer stroke relative to bore emphasizes torque generation, critical for agricultural applications requiring pulling power.

Power Output and Performance

- Gross Power: Around 70-80 horsepower (varies by model and configuration)
- Net Power: Approximately 65-75 horsepower
- Rated RPM: 1800-2000 RPM

This power range made the 670T suitable for a variety of farming tasks, from plowing fields to hauling heavy loads.

Fuel System and Combustion

The Allis Chalmers 670T engine uses a direct injection system, which improves fuel efficiency and power output. Key aspects include:

- Fuel Injection Pump: Mechanical, with precise control over injection timing
- Fuel Consumption: Approximately 0.4-0.45 gallons per hour at rated load
- Fuel Type: Diesel, with a specific gravity of about 0.85

Efficient combustion is achieved through carefully calibrated injection timing, ensuring optimal power and minimal emissions for its time.

Cooling and Lubrication Systems

- Cooling System: Closed-loop water cooling with a radiator and thermostatic control
- Cooling Capacity: Approximately 10 gallons (38 liters)
- Lubrication System: Pressurized with a mechanical oil pump, equipped with an oil filter
- Oil Capacity: About 10 quarts (9.5 liters)

Proper cooling and lubrication are critical for maintaining engine longevity, especially in demanding agricultural settings.

Intake and Exhaust

- Intake System: Naturally aspirated with a simple air filter
- Exhaust System: Cast iron manifold leading to a silencer or muffler for noise reduction

Some models or modifications may include turbochargers for increased power, but the standard 670T predominantly featured naturally aspirated operation.

Maintenance and Servicing Specifications

Regular maintenance ensures longevity and optimal performance:

- Valve Clearance: 0.010 inches (intake and exhaust)
- Spark Plug Gap: Not applicable (diesel engine)
- Fuel Filter Replacement: Every 250 hours of operation
- Oil Change Interval: Every 100-150 hours
- Cooling System Flush: Annually or as needed

Understanding these specifications facilitates proper upkeep and prevents costly repairs.

Summary of Main Specifications

Specification Details	
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Engine Type	4-cylinder, in-line diesel
Displacement	4.9 liters (299 in³)
Bore x Stroke	4.25 in x 5.0 in

| Power Output | 70-80 HP (gross), 65-75 HP (net) |

| RPM Range | 1800-2000 RPM |

| Cooling System | Water-cooled |

| Lubrication System | Pressurized with oil filter |

| Fuel System | Direct injection |

| Weight | 1,200-1,400 lbs |

| Dimensions | Approx. 50" L x 24" W x 36" H |

Applications and Legacy

The Allis Chalmers 670T engine played a significant role in powering agricultural machinery during its era. Its design influenced subsequent generations of industrial diesel engines, emphasizing durability and ease of maintenance. Today, restored models serve as a testament to mid-20th-century engineering, cherished by collectors and vintage machinery enthusiasts.

Conclusion

Understanding the Allis Chalmers 670T engine specifications provides valuable insights into its design, performance, and historical significance. Whether for restoration, repair, or educational purposes, grasping these technical details enables enthusiasts to appreciate the engineering marvels of the past and ensure their preservation for future generations.

If you're working on a restoration project or simply passionate about vintage engines, mastering the specifications of the 670T will help you keep these powerful and reliable engines running smoothly for years to come.

Question What is the engine type of the Allis Chalmers 670T? The Allis Chalmers 670T is equipped with a turbocharged diesel engine designed for heavy-duty applications. What is the engine horsepower rating of the Allis Chalmers 670T? The engine of the Allis Chalmers 670T typically produces around 250 to 300 horsepower, depending on the specific configuration. What is the displacement of the Allis Chalmers 670T engine? The engine displacement of the Allis Chalmers 670T is approximately 8.3 liters (507 cubic inches). What type of cooling system does the Allis Chalmers 670T engine use? The engine uses a liquid cooling system to maintain optimal operating temperatures. What is the fuel capacity of the Allis Chalmers 670T engine? While specific fuel capacity varies, the engine is designed to operate efficiently with a fuel tank capacity of around

150-200 gallons. What are the key specifications of the Allis Chalmers 670T engine's compression ratio? The compression ratio of the Allis Chalmers 670T engine is approximately 16:1. Does the Allis Chalmers 670T engine meet modern emissions standards? The original 670T engine was designed before modern emissions standards; retrofits or modifications may be necessary for compliance today. What is the typical maintenance schedule for the Allis Chalmers 670T engine? Regular maintenance includes oil changes every 250-300 hours, filter replacements, and cooling system checks to ensure optimal performance. Are spare parts available for the Allis Chalmers 670T engine? Spare parts for the Allis Chalmers 670T engine are available through specialized suppliers and vintage equipment parts dealers. What applications was the Allis Chalmers 670T engine commonly used in? The Allis Chalmers 670T engine was primarily used in agricultural machinery, such as tractors and combines, as well as industrial equipment requiring high power output.

Related keywords: Allis Chalmers, 670T engine, specifications, engine details, horsepower, engine type, diesel engine, model 670T, engine performance, technical data

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