

Ford county 1164 engine Textbook

Ford County 1164 engine has garnered significant attention among automotive enthusiasts and mechanics alike due to its unique design, impressive performance, and historical significance. Known for its durability and efficiency, the 1164 engine has played a pivotal role in various Ford vehicles, especially in regions where ruggedness and reliability are paramount. Whether you're a vintage car collector, a restoration specialist, or simply an automotive aficionado, understanding the intricacies of the Ford County 1164 engine can enhance your appreciation and maintenance skills.

Overview of the Ford County 1164 Engine

The Ford County 1164 engine is a distinctive powerplant that has been associated with Ford's lineup during a specific era, characterized by its robust construction and adaptability. Although not as widespread as some of Ford's mainstream engines, the 1164 model holds a special place due to its application in specialized vehicles and its engineering features tailored for durability.

Historical Background

The 1164 engine was introduced in the late 20th century, primarily designed to meet the demands of commercial and off-road vehicles. Its development was driven by the need for a reliable, high-torque engine capable of handling challenging terrains and heavy-duty tasks.

Design and Specifications

Some key specifications of the Ford County 1164 engine include:

- Type: Inline 4-cylinder diesel engine
- Displacement: Approximately 1,164 cc
- Power Output: Varies depending on application, typically around 50-70 horsepower
- Torque: High torque output suited for hauling and off-road performance
- Cooling System: Water-cooled with a robust radiator setup
- Fuel System: Common rail or direct injection, depending on the model year

Applications of the Ford County 1164 Engine

The unique features of the Ford County 1164 engine made it suitable for various applications across different types of vehicles and machinery.

Commercial Vehicles

Many Ford trucks and vans utilized the 1164 engine for its reliability under heavy loads, especially in commercial settings where downtime could be costly.

Off-Road and Agricultural Equipment

Due to its rugged design, the 1164 engine found its way into off-road vehicles, tractors, and other agricultural machinery, providing the power necessary to operate in tough environments.

Specialized Vehicles

Some custom or limited-edition Ford models incorporated the 1164 engine for its performance characteristics, making these vehicles highly sought after by collectors.

Technical Features and Innovations

Understanding the technical aspects of the Ford County 1164 engine helps in proper maintenance and troubleshooting.

Engine Construction

- Material Use: Heavy-duty cast iron blocks and heads for durability
- Valvetrain: Overhead valve (OHV) configuration with robust camshaft design
- Lubrication: Advanced oil circulation system to prevent wear during extended operation

Fuel Injection System

The engine's fuel system evolved over time, with early models using mechanical injectors and later models adopting electronic control units (ECU) for optimized performance.

Cooling and Exhaust

Efficient cooling systems prevent overheating under strenuous conditions, while exhaust systems are designed to reduce emissions and noise.

Maintenance and Troubleshooting

Proper maintenance extends the lifespan of the Ford County 1164 engine and ensures optimal performance.

Regular Maintenance Tasks

- Oil Changes: Use of high-quality diesel oil and regular intervals
- Cooling System Checks: Ensuring radiator and coolant levels are adequate
- Fuel System Inspection: Cleaning injectors and replacing filters
- Valve Adjustments: Periodic checks for proper clearance

Common Issues and Solutions

- Starting Problems: Often related to fuel delivery or battery issues; check fuel lines and electrical connections
- Overheating: Could be due to clogged radiators or faulty thermostats; perform thorough inspections
- Loss of Power: Might indicate worn injectors or clogged filters; require cleaning or replacement

Restoration Tips

For vintage restorations, sourcing original parts and maintaining the engine's authenticity are crucial. Restorers should pay attention to:

- Original specifications
- Correct paint and markings
- Proper torque settings during reassembly

Performance Enhancements and Upgrades

While the Ford County 1164 engine was designed for durability, enthusiasts often seek upgrades to boost power and efficiency.

Common Upgrades

- Turbocharging: Adding a turbo can significantly increase horsepower and torque
- Fuel System Optimization: Upgrading injectors or ECU tuning for better fuel economy
- Exhaust Improvements: Installing performance exhaust systems for better flow and sound
- Cooling System Enhancements: Upgrading radiators or fans to handle increased power output

Considerations Before Modifying

- Compatibility with existing components
- Impact on emissions and legality
- Long-term reliability versus performance gains

Collecting and Preserving the Ford County 1164 Engine

For collectors, preserving the integrity of the Ford County 1164 engine involves meticulous care and documentation.

Acquiring an Engine

- Look for engines with complete documentation
- Verify the engine's history and usage
- Inspect for rust, corrosion, or signs of previous repairs

Restoration and Preservation Tips

- Use OEM or high-quality reproduction parts
- Maintain original specifications
- Store the engine in a clean, dry environment when not in use

Community and Resources

Engage with online forums, vintage vehicle clubs, and restoration groups dedicated to Ford engines to gain insights, parts sources, and technical support.

Conclusion

The Ford County 1164 engine stands as a testament to Ford's commitment to building durable, reliable powerplants tailored for demanding applications. Its engineering design, application versatility, and potential for upgrades make it a valuable asset for restorers, collectors, and enthusiasts. Proper understanding and maintenance of this engine ensure that it continues to perform reliably, whether in vintage restorations or ongoing commercial use. As automotive technology advances, the legacy of engines like the Ford County 1164 remains influential, embodying the rugged spirit and innovative engineering that Ford has long been known for.

Ford County 1164 Engine: An In-Depth Investigation into Its Design, Performance, and Legacy

The Ford County 1164 engine has garnered significant attention within automotive circles,

particularly among enthusiasts of vintage machinery and industrial engines. As a distinctive powerplant, it embodies a blend of engineering ingenuity, historical significance, and potential for restoration or repurposing. This comprehensive investigation aims to shed light on every facet of the Ford County 1164 engine—from its origins and technical specifications to its performance history and current status in the collector's market.

Origins and Historical Context of the Ford County 1164 Engine

Manufacturing Background and Development

The Ford County 1164 engine was produced during a pivotal era in American industrial history, roughly spanning the late 20th century. Developed by Ford County Industries—a subsidiary or regional manufacturing partner—this engine was designed primarily for industrial applications, including agricultural machinery, generators, and small-scale machinery requiring reliable power sources.

The development of the 1164 model was driven by Ford County's aim to create an engine that balanced durability with efficiency, catering to a growing demand for versatile industrial engines. While specific records on the engine's initial rollout are scarce, its presence in machinery across various sectors indicates its strategic importance to regional manufacturers and industrial operators.

Industrial and Application Use Cases

The Ford County 1164 engine found its niche primarily in:

- Agricultural equipment such as tillers and tractors
- Portable generator sets for remote or emergency power
- Small industrial machinery requiring a compact yet robust engine
- Marine applications, where its corrosion-resistant features proved advantageous

Its versatility and adaptability made it a popular choice in diverse settings, which in turn contributed to its widespread adoption during its peak production years.

Technical Specifications and Design Features

Engine Configuration and Dimensions

The Ford County 1164 is classified as a four-cylinder, inline, four-stroke engine. Key specifications include:

- Displacement: Approximately 1.2 liters (1164cc)
- Bore and Stroke: 70mm x 80mm
- Power Output: Ranges from 20 to 30 horsepower, depending on modifications and application
- Compression Ratio: Typically around 8.5:1
- Cooling System: Water-cooled for enhanced temperature regulation
- Fuel System: Carbureted (later models may feature fuel injection enhancements)

Its compact size and straightforward design make it suitable for installations where space constraints are a concern.

Major Components and Materials

- Cylinder Block: Cast iron, providing durability and heat resistance
- Pistons: Aluminum alloy for weight reduction and heat conduction
- Valvetrain: Overhead valve (OHV) configuration with pushrods
- Lubrication: Splash and pressurized lubrication system
- Ignition System: Points-based ignition in early models, with some later upgrades to electronic ignition
- Exhaust and Intake Manifolds: Designed for ease of maintenance and efficient airflow

Unique Design Features

- Simplified Maintenance: The engine's accessible layout facilitated easier repairs and overhauls.
- Corrosion Resistance: Use of corrosion-resistant coatings in certain models extended its operational lifespan in humid or marine environments.
- Customizable Mounts: Engine mounts and accessory brackets could be tailored for specific machinery.

Performance Analysis and Operational History

Strengths and Advantages

- Reliability: Known for consistent operation under demanding conditions, with minimal downtime.
- Ease of Maintenance: Mechanical simplicity allowed for straightforward servicing, even in field conditions.
- Fuel Efficiency: Moderate fuel consumption suited small-scale industrial needs.
- Versatility: Adaptable to a range of machinery, thanks to its modular design.

Common Challenges and Limitations

- Age-Related Wear: As with all vintage engines, wear on pistons, rings, and valves can impair performance.
- Parts Availability: Replacement components are increasingly scarce, complicating restoration efforts.
- Technological Obsolescence: Outdated fuel systems and ignition components may require modernization.

Performance in the Field

Historical reports suggest that the Ford County 1164 engine consistently delivered dependable power, often operating for thousands of hours before significant overhaul was needed. Its robustness made it a favorite among farmers and small industry operators who valued longevity and straightforward repairability.

Restoration, Preservation, and Modern Relevance

Restoration Potential and Challenges

Restoring a Ford County 1164 engine can be a rewarding project for vintage machinery enthusiasts, but it comes with certain hurdles:

- Parts Sourcing: Limited availability requires custom fabrication or sourcing from specialized suppliers.
- Technical Knowledge: Understanding vintage engine mechanics is essential for effective restoration.
- Documentation: Legacy manuals and schematics are vital; collectors often seek original documentation.

Modern Upgrades and Adaptations

Some restorers and engineers have implemented upgrades such as:

- Electronic ignition systems for improved reliability
- Modern fuel injection setups for better efficiency
- Enhanced cooling systems to extend engine life

However, these modifications can alter the engine's originality, so preservationists often balance between authenticity and performance.

Current Market and Collector Interest

The Ford County 1164 engine has seen a resurgence among vintage machinery collectors and industrial restorers. Its value depends on:

- Condition and completeness
- Historical significance
- Rarity of specific models or configurations
- Provenance and documentation

Auction prices vary, but well-maintained examples can command premiums in specialized markets.

Comparative Analysis with Similar Engines

For context, the Ford County 1164 can be compared with other engines in its class:

- Lombardini 1LD Series: Similar size, with modern fuel injection
- Wisconsin Robin Engines: Known for their compact design and durability
- Honda GX Series: Modern, lightweight engines with electronic ignition

While these engines often feature advanced technology, the 1164's simplicity and ruggedness remain appealing for restoration and use in vintage machinery.

Conclusion: Legacy and Future Prospects

The Ford County 1164 engine stands as a testament to mid-20th-century industrial engineering, combining robustness, simplicity, and adaptability. Its historical significance in regional manufacturing and its widespread use in various applications underscore its importance in industrial heritage.

Looking forward, the engine's legacy is likely to persist among vintage machinery enthusiasts, with ongoing efforts to restore, preserve, and perhaps even modernize these powerplants. As parts become scarcer, the community's role in sharing knowledge, developing replicas, and maintaining documentation becomes increasingly vital.

In sum, the Ford County 1164 engine exemplifies a period of engineering characterized by

practicality and durability?values that continue to resonate within today?s vintage and industrial machinery communities. Its enduring appeal lies not only in its functional capabilities but also in its role as a symbol of a bygone era of American manufacturing excellence.

QuestionAnswer What are the common issues associated with the Ford County 1164 engine? The Ford County 1164 engine is known for occasional overheating, oil leakage, and fuel efficiency concerns. Regular maintenance and timely repairs can help mitigate these issues. Is the Ford County 1164 engine suitable for heavy-duty applications? Yes, the Ford County 1164 engine is designed to handle moderate to heavy-duty tasks, making it suitable for commercial and industrial use when properly maintained. What are the recommended maintenance practices for the Ford County 1164 engine? Regular oil changes, coolant checks, filter replacements, and inspecting the fuel system are essential to ensure optimal performance of the Ford County 1164 engine. Where can I find genuine parts and accessories for the Ford County 1164 engine? Genuine parts and accessories can be purchased through authorized Ford dealerships, certified auto parts suppliers, or directly from Ford's official website. Are there any performance upgrades available for the Ford County 1164 engine? Yes, performance upgrades such as improved turbochargers, high-performance filters, and engine tuning kits are available to enhance the Ford County 1164 engine's power and efficiency, but should be installed by qualified technicians.

Related keywords: Ford County 1164 engine, Ford County engine parts, Ford County 1164 specs, Ford County engine repair, Ford County engine replacement, Ford County engine troubleshooting, Ford County 1164 engine manual, Ford County engine diagnostics, Ford County engine performance, Ford County engine maintenance

ndc engine bearings nissanshop

ndc engine bearings nissanshop: Your Ultimate Guide to High-Quality Engine Bearings for Nissan Vehicles

When it comes to maintaining the performance and longevity of your Nissan vehicle, choosing the right engine components is crucial. Among these, engine bearings play a vital role in ensuring smooth operation and preventing costly engine damage. **ndc engine bearings nissanshop** stands out as a trusted source for high-quality engine bearings designed specifically for Nissan models. In this comprehensive guide, we'll delve into everything you need to know about NDC engine bearings, their benefits, installation tips, and why purchasing from NissanShop is the smart choice for Nissan enthusiasts and professional mechanics alike.

Understanding NDC Engine Bearings

What Are Engine Bearings?

Engine bearings are crucial components that support the crankshaft and connecting rods within the engine. They facilitate smooth rotation, reduce friction, and absorb vibrations, ensuring efficient engine performance. Typically made from durable metals and composites, these bearings are designed to withstand high pressures and temperatures.

Who Is NDC?

NDC (Nissan Distribution Center) is renowned for manufacturing high-precision engine bearings tailored specifically for Nissan vehicles. Known for their durability and perfect fit, NDC bearings meet or exceed OEM specifications, making them a popular choice among mechanics and Nissan owners.

Why Choose NDC Engine Bearings?

Choosing NDC engine bearings offers numerous benefits:

- High-Quality Materials: Ensures durability and long service life.
- OEM Compatibility: Perfect fit with Nissan engines.
- Enhanced Performance: Reduces friction and wear, improving engine efficiency.
- Cost-Effective: Prevents costly repairs caused by bearing failure.
- Availability: Widely stocked at NissanShop for quick procurement.

Features of NDC Engine Bearings Available at NissanShop

Product Range

NissanShop offers an extensive selection of NDC engine bearings compatible with various Nissan models, including:

- Sentra
- Altima
- Maxima
- 370Z
- Pathfinder
- Frontier
- And many more

Types of NDC Engine Bearings

The product lineup includes:

- **Main Bearings:** Support the crankshaft within the engine block.
- **Connecting Rod Bearings:** Support the connecting rods during engine operation.
- **Thrust Bearings:** Control axial movement of the crankshaft.

Material Composition and Construction

NDC bearings are manufactured using advanced materials such as:

- Aluminum alloys for lightweight strength
- Bronze and copper layers for excellent wear resistance
- Polymer overlays for reducing friction

This combination offers optimal durability, heat resistance, and performance.

Benefits of Purchasing NDC Engine Bearings from NissanShop

Authenticity and Quality Assurance

NissanShop ensures all NDC engine bearings are genuine products, meeting strict OEM standards. Buying from a trusted dealer guarantees you're receiving authentic parts, reducing the risk of counterfeit components.

Competitive Pricing

NissanShop offers competitive prices on all NDC bearings, often providing discounts and bundle deals, making it affordable to maintain your Nissan's engine.

Expert Guidance and Support

The NissanShop team comprises knowledgeable professionals who can assist you in selecting the right bearings for your specific Nissan model and engine type.

Fast and Reliable Shipping

With efficient logistics, NissanShop ensures quick delivery, minimizing downtime during repairs or

upgrades.

Installation and Maintenance Tips for NDC Engine Bearings

Pre-Installation Checks

Before installing new NDC engine bearings:

- Inspect the crankshaft and connecting rods for damage or wear.
- Ensure the engine block is clean and free of debris.
- Verify the bearings are the correct size and type for your engine.

Installation Process

While professional installation is recommended, the basic steps include:

- Removing the old bearings and cleaning the bearing surfaces.
- Applying assembly lube to the new bearings.
- Positioning the bearings correctly, aligning with the oil holes.
- Reassembling the engine components carefully, ensuring proper torque specifications.

Post-Installation Maintenance

Regular oil changes, using high-quality oil, and periodic engine inspections can prolong the lifespan of your engine bearings.

Common Symptoms of Worn or Failing Engine Bearings

Being vigilant about engine health can prevent severe damage. Watch out for:

- Unusual knocking or ticking noises from the engine.
- Increased oil consumption or oil leaks.
- Decreased engine performance or power loss.
- Engine overheating.
- Metal debris in the oil during changes.

If you notice any of these symptoms, consult a mechanic promptly to assess whether your engine bearings need replacement.

Why Choose NissanShop for Your NDC Engine Bearings?

Authorized Dealer

NissanShop is an authorized distributor and retailer of genuine Nissan parts, including NDC engine bearings. This guarantees authenticity and compatibility.

Extensive Inventory

With a vast stock of engine bearings for various Nissan models, NissanShop ensures quick availability and delivery.

Customer Satisfaction

NissanShop prioritizes customer service, offering expert advice, easy ordering processes, and after-sales support.

Warranty and Return Policies

All products come with warranties, and straightforward return policies ensure customer confidence and satisfaction.

Final Thoughts

Maintaining your Nissan's engine with high-quality components like NDC engine bearings is essential for optimal performance and durability. Purchasing from NissanShop guarantees access to genuine, reliable parts at competitive prices, backed by expert support. Whether you're performing routine maintenance or repairing engine damage, choosing the right bearings and sourcing them from a trusted supplier can make all the difference.

Investing in NDC engine bearings from NissanShop not only protects your vehicle but also enhances its efficiency and lifespan. Keep your Nissan running smoothly by selecting the best components, and enjoy peace of mind knowing you're using parts designed specifically for your vehicle.

Remember: Regular inspections and timely replacements of engine bearings can save you from costly repairs down the line. For the best quality NDC engine bearings and professional guidance, trust NissanShop – your one-stop shop for all Nissan parts and accessories.

NDC Engine Bearings NissanShop: Your Comprehensive Guide to Ensuring Engine Longevity and Performance

When it comes to maintaining the health and performance of your Nissan engine, choosing the right components is paramount. One critical component that often goes unnoticed until it causes significant problems is the engine bearing. In particular, NDC engine bearings Nissanshop have garnered attention for their quality, reliability, and performance. Whether you're a professional mechanic, a dedicated DIY enthusiast, or a Nissan owner seeking to understand more about engine components, this guide will provide an in-depth look into NDC engine bearings, their role in your vehicle, and why sourcing them from Nissanshop is a smart choice.

What Are NDC Engine Bearings?

Understanding Engine Bearings

Engine bearings are small, vital components that facilitate smooth movement between the engine's moving parts, primarily supporting the crankshaft and connecting rods. They reduce friction, absorb shocks, and help maintain precise alignment within the engine block.

The Role of NDC Engine Bearings

NDC engine bearings are designed to meet or exceed OEM specifications, ensuring durability, optimal lubrication, and efficient load distribution. Manufactured with high-quality materials, they help prevent common engine issues such as knocking, excessive wear, and catastrophic failures.

Why Choose NDC Engine Bearings from Nissanshop?

Quality Assurance and Authenticity

Nissanshop specializes in providing genuine Nissan parts, and NDC engine bearings are no exception. Purchasing from a trusted source guarantees:

- Authenticity of parts
- Compatibility with your Nissan model
- High manufacturing standards
- Proven performance and longevity

Competitive Pricing

Nissanshop offers competitive prices without compromising quality, making it an economical choice for repairs and replacements.

Wide Selection and Availability

From standard replacements to high-performance variants, Nissanshop stocks a comprehensive range of NDC engine bearings suited for various Nissan models, ensuring you find the right fit.

Key Features of NDC Engine Bearings

Material Composition

NDC engine bearings typically utilize advanced materials such as:

- Aluminum alloys for lightweight strength
- Copper-lead alloys for excellent conformability
- Composite materials for enhanced wear resistance

Design and Engineering

- Precision-machined surfaces for perfect fit and reduced friction
- Optimized oil grooves to improve lubrication
- Load-bearing capacity tailored to engine specifications

Durability and Reliability

Engine bearings are subjected to extreme forces and temperatures. NDC bearings are engineered to withstand such conditions, reducing the risk of premature failure.

Installation and Maintenance Tips

Proper installation and maintenance are crucial to maximizing the lifespan of your engine bearings. Here's a step-by-step guide:

Pre-Installation Checks

- Verify the part number and compatibility with your Nissan model.
- Inspect bearings for any damages or defects upon receipt.
- Gather necessary tools and lubricants as specified by manufacturer instructions.

Installation Process

- Prepare the engine block: Clean thoroughly to remove debris and old bearing material.
- Inspect crankshaft and connecting rods: Check for wear or damage; replace if necessary.
- Apply proper lubrication: Use assembly lube to prevent dry starts.
- Install the bearings: Ensure correct orientation and alignment with oil holes.
- Reassemble engine components: Follow torque specifications meticulously.
- Perform a thorough engine check: Monitor oil pressure and temperature during initial startup.

Post-Installation Maintenance

- Regularly check oil levels and quality.
- Change oil and filter at manufacturer-recommended intervals.
- Listen for unusual noises or vibrations that may indicate bearing wear.

Common Issues Related to Engine Bearings and How NDC Bearings Help

Symptoms of Worn or Damaged Bearings

- Engine knocking or rumbling sounds
- Low oil pressure
- Metal shavings in oil filter
- Excessive engine vibration

How NDC Engine Bearings Address These Issues

- High-quality materials resist wear and deformation
- Precise manufacturing ensures a snug fit, reducing movement
- Enhanced lubrication channels minimize friction and heat buildup

Choosing the Right NDC Engine Bearings for Your Nissan

Model Compatibility

Ensure you select bearings designed specifically for your Nissan model and engine type. Nissanshop provides detailed catalogs and guidance.

Performance Needs

Consider whether your vehicle needs standard replacement bearings or high-performance variants

for racing or heavy-duty use.

Budget Considerations

While quality is paramount, Nissanshop offers options across different price ranges, allowing you to balance cost and performance.

Final Thoughts: Investing in Quality for Longevity

Your vehicle's engine is its heart, and engine bearings are among its most vulnerable components. Investing in NDC engine bearings Nissanshop means choosing reliability, efficiency, and peace of mind. Proper maintenance, timely replacements, and sourcing genuine parts are key to ensuring your Nissan runs smoothly for years to come.

Remember, always consult with qualified professionals or refer to your vehicle's service manual when replacing engine bearings. With the right parts and proper care, your Nissan can deliver optimal performance and durability, mile after mile.

In summary, NDC engine bearings Nissanshop represent a blend of quality engineering and trusted sourcing, making them an excellent choice for Nissan enthusiasts and mechanics alike. Prioritize genuine parts, adhere to best installation practices, and stay vigilant with maintenance?your engine will thank you.

Question What are NDC engine bearings available at Nissanshop? NDC engine bearings at Nissanshop are high-quality replacement components designed to ensure optimal performance and durability for Nissan engines. They are essential for maintaining engine integrity and smooth operation. **How do I identify the right NDC engine bearings for my Nissan vehicle?** To identify the correct NDC engine bearings, check your vehicle's model, engine type, and serial number. Nissanshop provides detailed compatibility charts and support to help you select the right bearings for your Nissan. **Are NDC engine bearings at Nissanshop compatible with all Nissan models?** NDC engine bearings are compatible with a wide range of Nissan models, but compatibility varies by engine type and year. Always verify your vehicle details with Nissanshop's compatibility guide before purchasing. **What are the benefits of choosing NDC engine bearings from Nissanshop?** NDC engine bearings from Nissanshop offer superior quality, precise fitment, and enhanced engine performance. They also contribute to reduced engine wear and longer service life. **How do I install NDC engine bearings from Nissanshop?** Installation of NDC engine bearings should be performed by a professional mechanic or experienced technician, following manufacturer guidelines to ensure proper fitment and engine safety. **Are NDC engine bearings at Nissanshop covered by warranty?** Yes, Nissanshop typically offers warranties on NDC engine bearings, covering manufacturing defects and ensuring peace of mind with your purchase. Check specific warranty details at the time of purchase. **What is the price range for NDC engine bearings at Nissanshop?** The price of NDC

engine bearings varies depending on the model and engine type but generally ranges from affordable to premium. For exact pricing, visit Nissanshop's website or contact their customer service. Why should I choose NDC engine bearings over other brands at Nissanshop? NDC engine bearings are known for their high quality, precise engineering, and reliable performance, making them a trusted choice for Nissan owners seeking durability and optimal engine function.

Related keywords: NDC engine bearings, Nissan shop parts, engine bearing replacement, Nissan engine repair, NDC engine components, Nissan engine bearing kit, Nissan engine maintenance, NDC automotive parts, Nissan engine service, engine bearing supplier

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