

Bmw n47 engine specifications

BMW N47 engine specifications The BMW N47 engine is a significant milestone in BMW's diesel engine lineup, representing a combination of efficiency, performance, and advanced engineering. Introduced in 2007, the N47 was part of BMW's effort to offer more efficient diesel options across its vehicle range, particularly in the 1 Series, 3 Series, and other models. Known for its innovative design features and technology, the N47 engine has garnered both praise for its performance and scrutiny due to some reliability concerns. This comprehensive overview delves into the specifications, technical details, variants, and other aspects of the BMW N47 engine to provide a thorough understanding of this powerplant.

Overview of the BMW N47 Engine

The BMW N47 is a turbocharged inline-4 diesel engine developed by BMW. It belongs to the N series family of engines, which are modular and designed for a broad range of applications. The N47 was produced from 2007 until 2014 and was succeeded by the BMW B47 engine, which features further technological improvements. The N47 was primarily aimed at providing a balance between fuel efficiency, emissions compliance, and driving dynamics.

Design and Engineering Features

The N47 engine incorporates several innovative features that distinguish it from previous BMW diesel engines. Some of these include:

- Common Rail Direct Fuel Injection: Allows precise control of fuel delivery for better efficiency and performance.
- Turbocharging: Typically uses a variable-geometry turbocharger (VGT), which enhances throttle response and power output.
- Aluminum Cylinder Head & Block: Reduces weight, contributing to overall vehicle efficiency.
- Double-VANOS Variable Valve Timing: Improves efficiency and emissions.
- Pumpe Düse (Unit Injector) Technology: For high-pressure direct injection, though some variants use different injection systems.
- Timing Chain: Provides durability and longer service life compared to timing belts.

The combination of these features resulted in an engine that was capable of producing respectable power and torque figures, with a focus on efficiency and lower emissions.

Variants and Displacements

The BMW N47 engine was produced in several displacements and configurations to suit different vehicle applications and market requirements.

N47D20

- Displacement: 2.0 liters (1,995 cc)
- Power Output: Ranges from 143 to 177 horsepower, depending on the variant
- Torque: Approximately 320 Nm (236 lb-ft)

N47D16

- Displacement: 1.6 liters (1,560 cc) - Power Output: Around 105 to 115 horsepower - Torque: Approximately 270 Nm (199 lb-ft)

N47D20 (High-Performance Variant)

- Used in specific models with slight tuning, offering higher power and torque.

Technical Specifications

The core specifications of the most common N47 variants are summarized below:

1. **Engine Type:** Turbocharged inline-4 diesel
2. **Configuration:** DOHC (Double Overhead Camshaft)
3. **Cylinder Arrangement:** Inline
4. **Number of Cylinders:** 4
5. **Displacement:** 1.6L or 2.0L
6. **Fuel System:** Common Rail Direct Injection (some variants use pump-nozzle technology)
7. **Turbocharger:** Variable Geometry Turbocharger (VGT)
8. **Compression Ratio:** Approximately 16.5:1
9. **Valvetrain:** Double-VANOS variable valve timing on both intake and exhaust valves
10. **Cooling System:** Water-cooled with integrated oil cooler
11. **Lubrication:** Wet sump with high-quality synthetic oil

Performance Figures

The N47's power and torque output vary slightly depending on the specific variant and market, but typical figures include:

2.0L Variants

- Power: 143–177 horsepower - Torque: 320 Nm (236 lb-ft)

1.6L Variants

- Power: 105–115 horsepower - Torque: 270 Nm (199 lb-ft) These figures enable the vehicles equipped with N47 engines to deliver brisk acceleration and good fuel economy, especially suited for urban and highway driving.

Applications and Models

The BMW N47 engine was used across a broad spectrum of BMW models and even in some Mini vehicles. Some notable applications include: - BMW 1 Series (E81, E82, E87, E88): 116d, 118d, 120d - BMW 3 Series (E90, E91, E92, E93): 318d, 320d - BMW 5 Series (E60, E61): 520d - BMW X1 (E84): X1 xDrive18d, xDrive20d - Mini Cooper D: Various models equipped with N47 engines The engine's versatility and efficiency made it a popular choice for BMW's compact and mid-size models during its production run.

Known Reliability and Common Issues

While the BMW N47 engine offers impressive specifications, it has been

associated with certain reliability issues: - Timing Chain Problems: The most notorious concern is premature timing chain wear and failure, which can lead to severe engine damage if not addressed promptly. Some models experienced timing chain stretch or failure as early as 60,000 miles. - Oil Pump Failure: Can result in oil pressure loss and engine damage. - EGR Valve and DPF Issues: Common in diesel engines, leading to increased maintenance costs. - Turbocharger Failures: Due to oil starvation or debris, affecting performance. BMW issued recalls and extended warranties for some of these issues, and regular maintenance is crucial to prolong engine life.

Technical Innovations and Impact

The N47 engine's technological features contributed significantly to BMW's diesel engine development: - Efficient Variable Geometry Turbocharging: Improved low-end torque and throttle response. - Double-VANOS: Enhanced fuel economy and reduced emissions. - Common Rail Injection: Better atomization and combustion control, leading to cleaner emissions. Despite its issues, the N47 represented a step forward in diesel technology, combining performance with compliance to increasingly stringent emission standards.

Conclusion

The BMW N47 engine is a notable example of modern diesel engineering, offering a compelling blend of power, efficiency, and technological sophistication. Its various displacements and variants allowed BMW to cater to a wide range of vehicles and customer needs. While it faced some reliability challenges—particularly concerning timing chain durability—proper maintenance and timely repairs can mitigate these

issues. Today, the N47 remains a respected engine among enthusiasts and owners who value BMW's engineering heritage and the performance delivered by this robust diesel powerplant. In understanding the specifications and characteristics of the BMW N47 engine, prospective buyers, owners, and automotive enthusiasts can better appreciate its role in BMW's lineup and its contributions to the brand's reputation for dynamic, efficient vehicles.

BMW N47 Engine Specifications: An In-Depth Analysis of a Turbodiesel Powerhouse The BMW N47 engine stands as a significant milestone in BMW's diesel engine history, representing a blend of advanced engineering, efficiency, and performance. Introduced in 2007 and produced until 2014, the N47 powered a wide array of BMW models, primarily within the 1 Series, 3 Series, and X1 lineups. Its innovative design, combined with turbocharging and direct injection, aimed to meet stringent emissions standards while delivering engaging driving dynamics. This comprehensive review delves into the technical specifications, design features, performance metrics, and common issues associated with the BMW N47 engine, providing enthusiasts and prospective owners with a thorough understanding of this influential powerplant.

Overview of the BMW N47 Engine

The BMW N47 is a turbocharged four-cylinder diesel engine that marked BMW's shift towards more efficient yet powerful diesel units. It belongs to BMW's modular engine family, sharing components with other engines to streamline manufacturing and maintenance. The N47 engine is particularly noteworthy for its high compression ratio, direct fuel injection system, and variable twin-scroll turbocharging, all aimed at optimizing power output and fuel economy. Key Highlights: - Engine Type:

Turbocharged inline-4 diesel - Displacement: 2.0 liters (1995 cc) -
Configuration: Longitudinally mounted, inline-four - Production Years:
2007–2014 - Applications: BMW 1 Series (E81, E82, E87, E88), 3 Series
(E90, E91, E92, E93), X1 (E84)

Technical Specifications of the BMW N47

Understanding the core specifications provides insight into the engine's capabilities and design philosophy.

Displacement and Bore/Stroke

- Displacement: 2.0 liters (1995 cc) - Bore: 85 mm - Stroke: 88.3 mm The slightly oversquare configuration (bore less than stroke) favors torque generation, which is characteristic of diesel engines designed for efficiency and pulling power rather than high-revving performance.

Compression Ratio

- Compression Ratio: Approximately 16.5:1 A high compression ratio is typical for diesel engines, enabling better thermal efficiency and fuel economy. However, it also necessitates robust components to withstand the increased pressures.

Fuel System and Injection

- Fuel System: Common Rail Direct Fuel Injection - Injector Type: Piezoelectric injectors - Maximum Injection Pressure: Up to 2,000 bar The common rail system allows precise control over fuel delivery, improving

combustion efficiency and reducing emissions. Piezoelectric injectors enable multiple injections per cycle, further refining combustion and noise reduction.

Turbocharging and Intercooling

- Turbocharger: Twin-scroll variable geometry turbocharger (VGT) - Intercooler: Water-to-air intercooler The twin-scroll turbo design helps optimize exhaust pulse energy, reducing turbo lag and enhancing throttle response. The VGT allows for variable turbine vanes, adjusting boost pressure to match engine demands dynamically.

Power and Torque Outputs

Model/Application	Power (hp)	Torque (Nm)	Power-to-Weight Ratio	Remarks
118d (E81/E87)	143 hp	305 Nm	High for its class	Early models
118d (Facelift)	143 hp	305 Nm	Slightly improved	From 2010 onwards
118d xDrive	143 hp	305 Nm	Similar	All-wheel drive variants
120d (E81/E87)	177 hp	350 Nm	More performance	Higher output versions
120d (E90/E91/E92/E93)	177 hp	350 Nm	Slightly higher torque	Available in various trims

(Note: Power and torque figures may vary slightly depending on market and model year.)

Design Features and Engineering Innovations

The N47 engine incorporates several engineering innovations that underpin its reputation for efficiency and reliability.

Variable Twin-Scroll Turbocharger (VGT)

The twin-scroll design divides the exhaust gases into two separate streams, allowing better spool-up and reduced turbo lag. The VGT adjusts the turbine vanes, providing optimal boost across different engine speeds, enhancing both responsiveness and fuel economy.

Common Rail Direct Injection

The high-pressure common rail system enables multiple injections per cycle, resulting in cleaner combustion, lower emissions, and quieter operation. Piezoelectric injectors improve spray precision, which is crucial for meeting Euro 5 emission standards.

Engine Block and Cylinder Head

- Materials: Aluminum alloy for lightweight construction - Design: Overhead camshaft (OHC) with chain-driven timing - Cylinder Head: Features integrated dual overhead camshafts, variable valve timing (VVT) via BMW's VANOS system The aluminum construction reduces weight, contributing to better handling and fuel economy, while the VANOS system optimizes valve timing for various engine loads and speeds.

Emission Control Technologies

- Diesel Particulate Filter (DPF): Standard on most models to reduce soot emissions - Selective Catalytic Reduction (SCR): Some models incorporate AdBlue injection for NOx reduction - EGR (Exhaust Gas Recirculation): Helps lower NOx emissions by recirculating a portion of exhaust gases back into the intake

Performance and Driving Dynamics

The N47 engine balances performance with efficiency, making it suitable for both daily commuting and spirited driving. Performance Highlights: - Acceleration: 0-60 mph in approximately 8.0 seconds for the 118d, around 7 seconds for the 120d - Top Speed: Electronically limited to approximately 130–150 mph, depending on model - Fuel Economy: Officially up to 50-55 mpg (combined cycle), though real-world figures vary based on driving style and conditions Driving Experience: The engine's torque curve is broad and flat, providing strong mid-range pull, which translates into confident overtaking and relaxed cruising. The twin-scroll turbo ensures minimal lag, offering quick throttle response. The engine's smoothness and refinement make it suitable for everyday use, while its efficiency aligns with modern environmental standards.

Common Issues and Reliability Considerations

While the N47 engine is praised for its performance and efficiency, it has faced certain reliability challenges, primarily related to timing chain issues.

Timing Chain Problems

One of the most notable issues with the N47 is premature timing chain wear and failure, which can lead to severe engine damage if not addressed promptly. Symptoms include rattling noises from the timing chain area, check engine lights, and in worst cases, engine misfires or failure. - Causes: Poor quality chain components, insufficient lubrication, or manufacturing defects - Prevention: Regular maintenance, timely replacement of the timing chain (recommended between 60,000–120,000

miles depending on usage), and ensuring oil quality

Oil Consumption and EGR Valve Issues

Some owners report higher-than-normal oil consumption and EGR valve clogging, which can impact engine efficiency and longevity.

Other Mechanical Concerns

- Fuel injectors may suffer from clogging or failure over time -
- Turbocharger wear due to inadequate maintenance or oil quality - DPF clogging if operated predominantly in city driving conditions without sufficient regeneration

Conclusion: The BMW N47 Engine in Perspective

The BMW N47 engine exemplifies a strategic balance between technological innovation and practical performance. Its twin-scroll variable geometry turbocharger, direct injection system, and high compression ratio make it a capable and efficient diesel powerplant that has served BMW's lineup well for nearly a decade. Despite facing some reliability challenges, particularly with timing chains, proper maintenance and timely repairs can significantly extend the engine's lifespan. For enthusiasts seeking a compact yet potent diesel engine in a luxury compact or sedan, the N47 remains a compelling choice, especially when considering its blend of torque, efficiency, and BMW's hallmark driving dynamics. As with any used vehicle equipped with an N47, prospective buyers should prioritize comprehensive maintenance history, especially regarding timing chain service, to ensure long-term reliability. In summary, the BMW N47

engine is a testament to BMW's engineering prowess during the late 2000s and early 2010s, embodying a period of technological advancement that prioritized emissions compliance without sacrificing driving pleasure. Its specifications and design features continue to influence BMW's diesel engine development and remain a subject of admiration for automotive enthusiasts worldwide.

The way people interact with information has quietly but fundamentally changed. Knowledge is no longer something that must be searched for physically or accessed through limited channels. With digital technology becoming part of everyday life, downloading *Bmw N47 Engine Specifications* has emerged as a natural extension of how modern readers learn, explore ideas, and build understanding over time.

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Cost considerations also influence how people access knowledge. Digital books, particularly those offered through public domain projects and open-access platforms, reduce financial barriers. Resources that were once difficult or expensive to obtain are now available to a much wider

audience, supporting more inclusive learning opportunities.

Platforms such as Project Gutenberg, Open Library, and Internet Archive play a significant role in this ecosystem. They preserve knowledge and make it accessible while respecting legal frameworks. Academic platforms like Academia.edu add another layer by providing research materials that complement digital books and encourage deeper exploration.

Responsible access remains essential. Choosing legitimate sources ensures content quality and protects users from security risks. Ethical downloading respects authors, publishers, and institutions that contribute to the availability of educational materials. This balance allows digital knowledge sharing to remain sustainable over time.

In professional contexts, downloadable books serve as practical tools. Skills evolve, industries change, and staying informed requires constant learning. Having *Bmw N47 Engine Specifications* readily available allows professionals to update knowledge efficiently without interrupting daily routines.

Students experience similar benefits. Digital books support flexible study habits, offline access, and organized note-taking. Instead of carrying heavy materials, students manage resources digitally, making learning more comfortable and adaptable to different environments.

Different learning styles are also better supported in digital formats. Some readers prefer focused, linear reading, while others move between sections or revisit specific ideas. Digital access accommodates both approaches, allowing readers to engage with *Bmw N47 Engine Specifications* in ways that feel intuitive rather than restrictive.

Accessibility features extend this flexibility even further. Adjustable text sizes, text-to-speech options, and compatibility with assistive technologies make digital books usable for a broader range of readers. These features help ensure that access to knowledge is not limited by physical or technical barriers.

Environmental considerations add another dimension. While digital technology has its own footprint, reducing dependence on printed materials lowers paper consumption and distribution demands. Digital access supports a more efficient way of sharing information across borders and communities.

Organization is another quiet advantage. Digital libraries can be sorted, backed up, and accessed instantly. Over time, readers build personal collections that reflect their interests and learning journeys. Important ideas remain easy to find, even years later.

Perhaps the most meaningful impact of downloading *Bmw N47 Engine Specifications* lies in how it shapes attitudes toward learning. When information is easy to access, curiosity feels welcome rather than inconvenient. Readers explore topics more freely, revisit ideas more often, and remain open to continuous growth.

Digital access does not replace traditional learning; it expands it. It creates space for reflection, exploration, and long-term engagement. With *Bmw N47 Engine Specifications* available in digital form, learning becomes something that evolves naturally alongside daily life, adapting to new questions, new goals, and changing perspectives.

Questions & Answers About bmw n47 engine specifications

N o	Question	Answer
1	What are the key specifications of the BMW N47 engine?	The BMW N47 engine is a 2.0-liter four-cylinder turbocharged diesel engine, featuring common rail direct fuel injection, variable valve timing, and a twin-turbo or single-turbo setup depending on the model. It produces between 143 to 204 horsepower and offers a torque range of 290 to 400 Nm.
2	Which BMW models are equipped with the N47 engine?	The BMW N47 engine is found in various models including the BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), and 5 Series (E60/E61), primarily from the years 2007 to 2015.
3	What are the common issues associated with the BMW N47 engine?	A common issue with the N47 engine is timing chain failure, which can lead to engine damage if not addressed promptly. Other problems include turbocharger failure, EGR valve issues, and oil leaks. Regular maintenance and timely repairs are essential to ensure longevity.
4	What is the fuel efficiency of the BMW N47 engine?	The BMW N47 engine offers impressive fuel efficiency for a diesel engine, with average consumption ranging from approximately 4.5 to 6.0 liters per 100 km, depending on the vehicle model and driving conditions.

5	How does the performance of the BMW N47 engine compare to other diesel engines?	The N47 engine provides a good balance of performance and efficiency, with smooth power delivery and responsive torque. While it may not match the high performance of larger engines, it is well-regarded for its reliability and fuel economy, especially in urban and highway driving.
6	Are there any aftermarket modifications available for the BMW N47 engine?	Yes, enthusiasts often upgrade the N47 engine with remapping or tuning chips to increase horsepower and torque. Additionally, aftermarket turbochargers, intercoolers, and exhaust systems are popular modifications to improve performance, though proper tuning and quality parts are essential to avoid engine damage.

BMW N47 engine, N47 diesel specs, BMW N47 engine power, BMW N47 torque, N47 engine displacement, BMW N47 fuel efficiency, N47 engine dimensions, BMW N47 turbo specifications, N47 engine maintenance, BMW N47 engine reliability

Understanding Bmw N47

Engine Specifications

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highlighting enhance the overall reading experience.

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Bmw N47 Engine Specifications eBooks are frequently referenced during planning and execution phases.

Bmw N47 Engine Specifications eBooks integrate seamlessly with digital workflows and note-taking systems.

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Sharing and Collaboration

Sharing and collaboration are increasingly important aspects of how *Bmw N47 Engine Specifications* is used in modern digital environments.

Whether for academic study, professional projects, or group learning, the ability to share content responsibly and collaborate effectively enhances understanding and productivity. However, it is essential that sharing practices always comply with legal and ethical standards, particularly regarding copyright and licensing.

When sharing *Bmw N47 Engine Specifications* with peers, users should ensure that the copy being shared is legally permitted for distribution. Public domain works, open-access materials, or files explicitly licensed for sharing can be distributed freely. For paid or copyrighted editions, sharing should be limited to official links, publisher platforms, or access methods allowed by the license. Respecting copyright protects creators and ensures the continued availability of high-quality content.

Collaborative annotation is one of the most valuable features of digital documents. Using cloud-based PDF readers or note-sharing applications, multiple users can highlight text, add comments, and discuss specific sections of *Bmw N47 Engine Specifications* in real time or asynchronously. This approach is particularly effective for study groups, research teams, and classroom environments, where shared insights deepen comprehension and encourage critical discussion.

Cloud platforms enable version consistency across collaborators. When everyone accesses the same file stored online, updates and annotations remain synchronized, reducing confusion and duplication. Clear communication about annotation conventions—such as color coding or

labeling comments—further improves collaboration and keeps discussions organized.

Best practices for collaborative use

To ensure smooth collaboration, users should define roles and expectations in advance. Establishing guidelines for who can edit, comment, or view the document prevents accidental changes or conflicts. Regular reviews of shared annotations help maintain clarity and ensure that discussions remain focused and productive.

Finding Updates

Staying informed about updates to Bmw N47 Engine Specifications is essential for users who rely on accurate and current information. Unlike printed books, digital editions can be revised and updated without requiring a full reprint. Publishers may release corrected versions, expanded content, or supplemental materials that enhance the value of the original work.

Checking official publisher websites is the most reliable way to find updates. Publishers often announce new editions, revisions, or errata directly on their platforms. Subscribing to newsletters or update notifications ensures that users are alerted when new versions become available.

Digital marketplaces and eBook platforms may also provide update notifications. Some services automatically update purchased digital copies, while others allow users to download revised editions manually. Understanding how a particular platform handles updates helps users maintain the most current version of Bmw N47 Engine Specifications.

In academic and professional contexts, using the latest edition is

particularly important. Updated versions may include revised data, corrected errors, or new chapters that reflect recent developments. Relying on outdated information can lead to inaccuracies in research, teaching, or decision-making.

Managing multiple editions

When multiple editions of Bmw N47 Engine Specifications are available, proper version management becomes crucial. Clearly labeling files with edition numbers or publication dates prevents confusion and ensures that references remain consistent. Archiving older versions separately allows users to retain historical context without cluttering active working files.

Device Flexibility

One of the greatest advantages of digital Bmw N47 Engine Specifications is device flexibility. Users can access content across a wide range of devices, including smartphones, tablets, laptops, desktops, and dedicated e-readers. This flexibility supports learning and productivity in various environments, from classrooms and offices to travel and home settings.

Mobile devices offer convenience and portability, making it easy to read Bmw N47 Engine Specifications on the go. Tablets provide a larger screen for comfortable reading and annotation, while computers offer advanced tools for research, editing, and multitasking. Dedicated e-readers deliver a distraction-free experience with long battery life and eye-friendly displays.

Format compatibility plays a key role in device flexibility. PDFs are widely supported across platforms, ensuring consistent formatting. ePub formats adapt to different screen sizes and allow customizable text settings. If a device does not support a particular format, conversion tools can bridge

the gap and enable access without sacrificing usability.

Synchronizing progress across devices enhances continuity. Cloud-based reading apps often track bookmarks, highlights, and notes, allowing users to resume reading exactly where they left off. This seamless transition between devices improves efficiency and reduces friction in daily workflows.

Optimizing cross-device experiences

To maximize device flexibility, users should keep reading applications updated and ensure that files are properly synced. Testing Bmw N47 Engine Specifications on multiple devices helps identify formatting or compatibility issues early, preventing disruptions during critical use.

Security and access control across devices

Accessing Bmw N47 Engine Specifications on multiple devices also requires attention to security. Using secure accounts, strong passwords, and trusted networks protects files from unauthorized access. Logging out of shared or public devices prevents accidental exposure of personal or proprietary information.

Encryption and secure cloud storage further enhance protection. Many platforms offer built-in security features that safeguard files while allowing convenient access across devices. Understanding and configuring these options helps balance accessibility with data protection.

Collaborative learning across platforms

Device flexibility supports collaboration by allowing participants to contribute using their preferred hardware. A student on a tablet, a researcher on a laptop, and a reviewer on a smartphone can all engage with Bmw N47 Engine Specifications simultaneously. This inclusivity

enhances participation and ensures that collaboration is not limited by device constraints.

Long-term usability and adaptability

As technology evolves, device flexibility ensures that Bmw N47 Engine Specifications remains usable across new platforms and operating systems. Choosing widely supported formats and maintaining updated software extends the lifespan of digital content and protects long-term investments in learning and research materials.

Final thoughts on sharing, updates, and device flexibility of Bmw N47 Engine Specifications

Effective sharing and collaboration, awareness of updates, and flexible device access significantly enhance the value of Bmw N47 Engine Specifications. By sharing responsibly, collaborating thoughtfully, staying current with revisions, and leveraging cross-device compatibility, users can fully integrate Bmw N47 Engine Specifications into modern digital workflows. These practices support ethical use, accurate knowledge, and seamless access, making Bmw N47 Engine Specifications a powerful resource for individual and collective growth.