



a @SPYWOLFNETWORK

BPYWOLF.CO

Audit prepared for

Lemon

Completed on March 19, 2025

OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- Contract's source code
- Owners' wallets
- Tokenomics
- Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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PROJECT DESCRIPTION

LEMON Layer 2 Projects have a crucial mission: to pioneer the digitalization and decentralization of Real World Assets (RWAs) through innovative blockchain strategies. These strategies enable businesses worldwide to seamlessly onboard and scale within the LEMON blockchain ecosystem. By leveraging advanced technology and a global community of NFT holders, LEMON fosters widespread adoption and utilization, creating the most powerful blockchain business ecosystem ever constructed.

Release Date: Launched July 15, 2024 Category: Ecosystem



BSC CONTRACT

Token	Name
Lemor	า

Symbol LEMX

Contract Address

0x2Da91257961b87e69Fa13b2e20931D517dc97597

Network	Language
Binance Smart Chain	Solidity
Deployment Date	Contract Type
Jul 15, 2024	ERC20 Token
Total Supply	Status
50,000,000 LEMX	Launched



Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

MANUAL CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



🔺 High Risk

No high risk-level threats found in this contract.

🔺 Medium Risk

No medium risk-level threats found in this contract.

🔺 Low Risk

No low risk-level threats found in this contract.



Informational

Fixed Supply with No Minting or Burning Mechanisms

The LEMX contract on BSC has a fixed total supply of 50,000,000 tokens, minted at deployment with no additional minting or burning functions available. This ensures that the token supply cannot be inflated or reduced, providing predictability for investors. However, investors should note that this rigidity means the project cannot adjust the supply in response to market conditions or ecosystem needs, which could impact long-term flexibility.

Pausable Feature Permanently Disabled

LEMX inherits pausable functionality, allowing token transfers to be paused in emergencies, but with ownership renounced, this feature is permanently disabled. Investors should note that while this enhances decentralization by preventing centralized control, it also means the contract cannot be paused to mitigate unforeseen issues, such as exploits in external protocols interacting with LEMX, relying entirely on the token's current design for security.

Dependency on BSC Network Conditions

As LEMX operates on the Binance Smart Chain, its performance and usability are tied to BSC's network conditions, such as gas fees and transaction speeds. While BSC is known for low-cost transactions, investors should be aware that network congestion or fee spikes during high activity periods could impact the cost and speed of LEMX transfers, especially for frequent trading or interactions with dApps.

LEMON CHAIN CONTRACT INFO

Token Name

Symbol

Wrapped LEMX	WLEMX
Contract Address	
0x84862e65EBF37aF91a8b	85283B58505dE3352588
Network	Language
Lemon Chain	Solidity
Deployment Date	Contract Type
Jul 15, 2024	Wrapped Token
Total Supply	Status
20,340,108.131 WLEMX	Launched



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🔺 High Risk

No high risk-level threats found in this contract.

🔺 Medium Risk

No medium risk-level threats found in this contract.

🔺 Low Risk

No low risk-level threats found in this contract.





Informational

Dynamic Supply Based on Native Currency Deposits

The WLEMX contract's total supply, currently at 20,340,108.131 WLEMX, is not fixed and depends on the amount of native currency (the Lemon Chain's equivalent of Ether) deposited into the contract. As users deposit or withdraw native currency, the supply of WLEMX increases or decreases accordingly. Investors should be aware that this dynamic supply could impact the token's circulating supply and market dynamics, unlike a fixed-supply token.

Permissionless Design with No Administrative Control

WLEMX operates without an owner or administrative role, meaning no one can pause, upgrade, or manage the contract after deployment. While this ensures decentralization and prevents centralized interference, investors should note that there's no mechanism to address potential issues, such as recovering funds if native currency is sent to the contract outside the intended deposit function, which could lead to discrepancies in the total supply.

Dependency on Lemon Chain Network Performance

As WLEMX operates on the Lemon Chain, its usability is tied to the network's performance, including transaction fees and confirmation times. While Lemon Chain may offer benefits like low-cost transactions, investors should be mindful that network congestion, fee fluctuations, or chain-specific risks (e.g., validator centralization) could affect the cost and speed of WLEMX transactions, particularly during high activity periods or when interacting with dApps. Website URL https://www.allthingslemon.io/

Domain Registry http://www.godaddy.com

Domain Expiration 2026-06-10

Technical SEO Test Passed

Security Test Passed. SSL certificate present **Design** Very nice color scheme and overall layout.

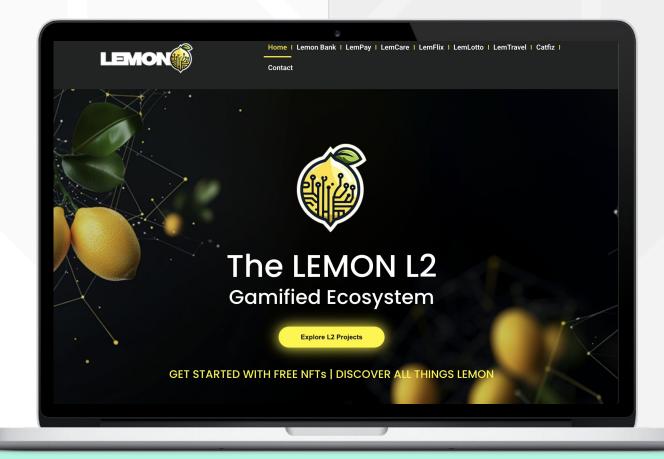
Content The information helps new investors understand what the product does right away. No grammar errors found. . Whitepaper Well written but a bit short

Roadmap

Yes

Mobile-friendly?

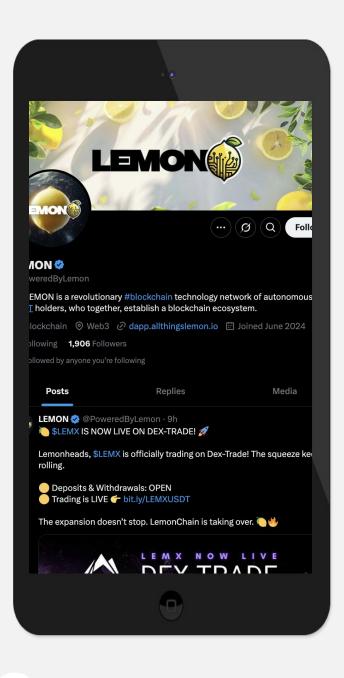
Yes



www.allthingslemon.io

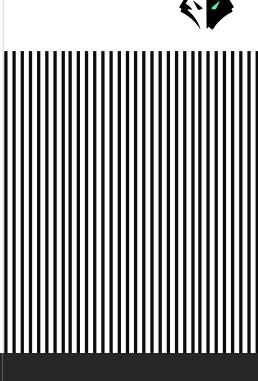
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SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

The project's social media pages are active with daily posts.





Twitter's X @PoweredByLemon

- 1,906 Followers
- Responds to comments
- Daily posts



• Not available



- 6 296 members
- Active mods and devs
- Daily announcements



• Not available



SPYWOLF CRYPTO SECURITY

Audits | KYCs | dApps Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to contact@spywolf.co or t.me/joe_SpyWolf

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.