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Audit prepared for **SCORCH**

Completed on June 20, 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 -



TABLE OF CONTENTS

Project Description	01
Contract Information	02
Current Stats	03
Vulnerability Check	04
Errors Found	05
Manual Code Review	06
Found Threats	07
Summary and Conclusion	08
Tokenomics	09
About SPYWOLF	10
Disclaimer	11

SCOR



PROJECT DESCRIPTION

SCORCH is built on Shibarium Layer-2. Its main launch feature is the conversion (or "burning") of SHIB in exchange for SCORCH tokens. This mechanism permanently removes SHIB from circulation.

As the project expands, it becomes a "burn platform" that any project owner or token holder can use to facilitate community-driven token burns.

Release Date: TBD Category: Token





r CONTRACT INFO

Token Name	Symbol
SCORCH	SCORCH
Contract Address Testnet	
Network	Language
Shibarium	Solidity
Deployment Date	Contract Type
Not Deployed Yet	Staking
Total Supply	Status
15,000,000,000	Not Deployed Yet



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

SPYW





TOKEN TRANSFERS STATS

Transfer Count	Not Deployed Yet
Uniq Senders	Not Deployed Yet
Uniq Receivers	Not Deployed Yet
Total Amount	Not Deployed Yet
Median Transfer Amount	Not Deployed Yet
Average Transfer Amount	Not Deployed Yet
First transfer date	Not Deployed Yet
Last transfer date	Not Deployed Yet
Days token transferred	Not Deployed Yet

SMART CONTRACT STATS

Calls Count	Not Deployed Yet
External calls	Not Deployed Yet
Internal calls	Not Deployed Yet
Transactions count	Not Deployed Yet
Uniq Callers	Not Deployed Yet
Days contract called	Not Deployed Yet
Last transaction time	Not Deployed Yet
Created	Not Deployed Yet
Create TX	Not Deployed Yet
Creator	Not Deployed Yet



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



VULNERABILITY ANALYSIS NO ERRORS FOUND

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.



🔺 Low Risk

No Tax Applied on Very Small Transfer Amounts

The burn tax is calculated using integer division: taxAmount = value.mul(BURN_TAX_NUMERATOR).div(BURN_TAX_DENOMINATOR);. If the value of a transfer is less than BURN_TAX_DENOMINATOR (which is 100), the taxAmount will round down to zero.

Impact: Transfers of amounts less than 100 wei (the smallest unit of the token) will not incur any burn tax. While the economic impact of untaxed dust amounts is likely negligible, this means the 1% tax isn't universally applied to every single non-zero value transfer.

• Recommendation:

• This behavior is typical for integer division in Solidity. It should be documented and understood. Attempting to tax these minute amounts could cost more in gas than the tax itself. The current implementation is generally acceptable.





Increased Gas Cost for Token Transfers

The overridden _update function, which implements the 1% burn tax, involves several operations beyond a standard ERC20 transfer: an additional balanceOf read (within the require statement for the total amount), arithmetic operations for tax calculation, a _burn operation (which includes an SSTORE and an event), and the emission of an additional TokensBurnedWithTax event.

Impact: This results in higher gas consumption for every token transfer compared to ERC20 tokens without on-transfer tax logic. While a known trade-off for this type of feature, it can negatively affect user experience and transaction affordability, especially during periods of high network congestion or on chains with higher gas fees.

- Recommendation:
 - This is an inherent cost of the feature. Ensure users are aware of the potentially higher gas fees. No direct code change is advised if the feature is intended to operate as is, but benchmarking gas costs would be prudent.





Absence of a Pause Mechanism for Emergency Situations

The contract does not inherit or implement any pausing functionality (e.g., OpenZeppelin's Pausable utility). A pause mechanism allows designated addresses to temporarily halt most or all contract functions in case a critical vulnerability or an unexpected issue is discovered post-deployment.

Impact: If a severe bug unrelated to admin controls (e.g., a flaw in the ERC20 interaction, or an issue with the tax mechanism that allows unforeseen exploits) is found, there is no way to stop contract activity to prevent further damage or exploitation without redeploying the entire contract.

- Recommendation:
 - Consider incorporating a pausable mechanism. If added, the control over pausing/unpausing would typically reside with a highly secured address or governance protocol. (While pausing introduces a control element, the lack of it is a risk to the contract's stability itself).



Informational

Contract is Not Upgradeable

The smart contract is not implemented using an upgradeability pattern (e.g., proxy patterns like UUPS or Transparent Upgradeable Proxy). This means its logic is immutable once deployed.

Fixed Maximum Supply

The SCORCH token has a hardcoded MAX_SUPPLY of 15,000,000,000 * (10 ** 18), which cannot be altered. The mint function respects this cap.

Burn-on-Transfer Feature

A 1% tax is applied to token transfers (excluding minting operations or direct burns to address(0)). This tax amount is deducted from the sender and burned, reducing the total supply over time.



Informational

Utilization of OpenZeppelin Standards

The contract leverages established OpenZeppelin libraries for core ERC20 functionality (ERC20.sol), context provision (Context.sol), reentrancy protection (ReentrancyGuard.sol), and role-based access (AccessControl.sol). This is a good practice as these libraries are well-audited and battle-tested.

Comprehensive Event Emissions

The contract correctly emits events for significant actions: TokensBurnedWithTax for taxed burns, standard Transfer events for minting, regular transfers, and direct burns. AccessControl (used for MINTER_ROLE) also emits role-related events. These are essential for off-chain applications, UIs, and transaction tracking.



SUMMARY & CONCLUSION

The **SCORCH** token smart contract exhibits a commendable adherence to established blockchain development practices, notably through its proficient use of OpenZeppelin's industry-standard libraries. This approach significantly strengthens the contract's security posture against many common vulnerabilities.

Following an initial review, the team has proactively enhanced the contract's robustness by integrating an emergency **pause mechanism**, providing critical protection for users, and by **removing external libraries** in favor of relying on the native security features of the modern Solidity compiler.

The core tokenomics, including a fixed maximum supply and the innovative 1% burn tax mechanism, remain implemented with clarity. The logic for applying the tax is transparent, and essential events are diligently emitted to foster on-chain transparency. The project's design choices, such as the gas implications of the on-transfer tax or the current approach to contract upgradeability, represent strategic decisions with inherent trade-offs.

In essence, the SCORCH token contract showcases a well-structured and secure design, further improved by the team's commitment to best practices. As with any smart contract deployment, a final review of the updated code is an indispensable step to ensure the utmost security and readiness for launch. *The following tokenomics are based on the project's whitepaper and/or website:

Tokens distribution

- Team & Founders (3.33%)
- Advisors & Partnerships (1.67%)
- Ecosystem Development (11.67%)
- Pre-Sale (13.33% = 2 billion tokens)
- Liquidity Pool (10%)
- Community Rewards/Airdrops (10%)
- Staking Pools (20%)
- Expansion Plans (5%)
- Burning Platform Reserve (28.33%)





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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.