

# KISHIELD

Security Audit

**PEPECEO Inu Token**

April 28, 2023



Contract Audited



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# Audit Summary

This report has been prepared for PEPECEO Inu Token on the BSC network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

# Project Overview

## Token Summary

| Parameter     | Result                                                                                                                                                                |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Address       | 0x4baE28eA8A12641d1Ec4d8d6E66Dc2b80A93b2a4                                                                                                                            |
| Name          | PEPECEO Inu                                                                                                                                                           |
| Token Tracker | PEPECEO Inu (PEPECEO)                                                                                                                                                 |
| Decimals      | 9                                                                                                                                                                     |
| Supply        | 1,000,000,000,000                                                                                                                                                     |
| Platform      | BSC                                                                                                                                                                   |
| compiler      | v0.8.17+commit.8df45f5f                                                                                                                                               |
| Optimization  | Yes with 200 runs                                                                                                                                                     |
| LicenseType   | None                                                                                                                                                                  |
| Language      | Solidity                                                                                                                                                              |
| Codebase      | <a href="https://bscscan.com/address/0x4baE28eA8A12641d1Ec4d8d6E66Dc2b80A93b2a4#code">https://bscscan.com/address/0x4baE28eA8A12641d1Ec4d8d6E66Dc2b80A93b2a4#code</a> |
| Url           | <a href="http://www.pepeceo.space">www.pepeceo.space</a>                                                                                                              |

## Main Contract Assessed

| Name        | Contract                                   | Live |
|-------------|--------------------------------------------|------|
| PEPECEO Inu | 0x4baE28eA8A12641d1Ec4d8d6E66Dc2b80A93b2a4 | Yes  |

# Smart Contract Vulnerability Checks

| Vulnerability                                           | Automatic Scan | Manual Scan | Result          |
|---------------------------------------------------------|----------------|-------------|-----------------|
| Unencrypted Private Data On-Chain                       | Complete       | Complete    | ✓ Low / No Risk |
| Code With No Effects                                    | Complete       | Complete    | ✓ Low / No Risk |
| Message call with hardcoded gas amount                  | Complete       | Complete    | ✓ Low / No Risk |
| Hash Collisions With Multiple Variable Length Arguments | Complete       | Complete    | ✓ Low / No Risk |
| Unexpected Ether balance                                | Complete       | Complete    | ✓ Low / No Risk |
| Presence of unused variables                            | Complete       | Complete    | ● Low           |
| Right-To-Left-Override control character (U+202E)       | Complete       | Complete    | ✓ Low / No Risk |
| Typographical Error                                     | Complete       | Complete    | ✓ Low / No Risk |
| DoS With Block Gas Limit                                | Complete       | Complete    | ✓ Low / No Risk |
| Arbitrary Jump with Function Type Variable              | Complete       | Complete    | ✓ Low / No Risk |
| Insufficient Gas Griefing                               | Complete       | Complete    | ✓ Low / No Risk |
| Incorrect Inheritance Order                             | Complete       | Complete    | ✓ Low / No Risk |
| Write to Arbitrary Storage Location                     | Complete       | Complete    | ✓ Low / No Risk |
| Requirement Violation                                   | Complete       | Complete    | ✓ Low / No Risk |
| Missing Protection against Signature Replay Attacks     | Complete       | Complete    | ✓ Low / No Risk |
| Weak Sources of Randomness from Chain Attributes        | Complete       | Complete    | ✓ Low / No Risk |

| Vulnerability                        | Automatic Scan | Manual Scan | Result          |
|--------------------------------------|----------------|-------------|-----------------|
| Authorization through tx.origin      | Complete       | Complete    | ✓ Low / No Risk |
| Delegatecall to Untrusted Callee     | Complete       | Complete    | ✓ Low / No Risk |
| Use of Deprecated Solidity Functions | Complete       | Complete    | ✓ Low / No Risk |
| Assert Violation                     | Complete       | Complete    | ✓ Low / No Risk |
| Reentrancy                           | Complete       | Complete    | ✓ Low / No Risk |
| Unprotected SELFDESTRUCT Instruction | Complete       | Complete    | ✓ Low / No Risk |
| Unprotected Ether Withdrawal         | Complete       | Complete    | ✓ Low / No Risk |
| Unchecked Call Return Value          | Complete       | Complete    | ✓ Low / No Risk |
| Outdated Compiler Version            | Complete       | Complete    | ✓ Low / No Risk |
| Integer Overflow and Underflow       | Complete       | Complete    | ✓ Low / No Risk |
| Function Default Visibility          | Complete       | Complete    | ✓ Low / No Risk |

## Contract Ownership

The contract ownership of PEPECEO Inu is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x6dB3455095f2140eD9B8F6b38294635C281524F6 which can be viewed from:  
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.



## Important Notes To The Users:

- The owner cannot mint tokens after initial deployment.
- The owner cannot blacklist addresses.
- The owner cannot stop trading after it is enabled.
- There are no fees for transferring tokens between wallets.
- Address that are exempt from fees can trade even when the trading is not enabled globally.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can enable/disable the antiBot mechanism.
- The owner can set the buy taxes up to 25%.
- The owner can set the sell taxes up to 25%.
- When the owner enables trading for the next 5 blocks a tax of 25% will be used for non tax exempt users.
- The owner can change the 25% tax period length only before trading is enabled.
- If the owner calls the enableTrading function again, the 25% tax period will begin once again and last until the antiBotBlockAmount (default is 5 blocks).
- The owner can add/remove addresses from fees and rewards.
- The owner can change marketing and dev wallets.
- The owner can change the DividentTracker contract.
- The owner can change the rewards claim wait time, and minimum balance required to get rewards.
- The owner can change the last reward claim timestamp of any address.

- The owner can change the lastProcessedIndex for the rewards.
- The owner can change the gas used for rewards processing between 20000 and 500000.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

**Read carefully the notes section and make your own decision before interacting with the audited contract.**

## Audit Passed





# Technical Findings Summary

## Classification of Issues

\*All Issues Found are Informational

| Severity | Description                                                                                                                                                                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ● High   | Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency |
| ● Medium | Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.                                                                      |
| ● Low    | Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.                                                                        |
| ● Info   | Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.                                                                                                                                                     |

## Findings

| Severity | Found |
|----------|-------|
| ● High   | 0     |
| ● Medium | 0     |
| ● Low    | 0     |
| ● Info   | 4     |
| Total    | 4     |

# Findings

## Variables could be declared as constant

| ID | Severity      | Contract    | Details                                                 |
|----|---------------|-------------|---------------------------------------------------------|
| 01 | Informational | PEPECEO Inu | Variables DEAD, rewardToken, swapEnabled, swapWithLimit |

### Description

Gas Optimization. Variables that are never changed could be declared as constant.

### Recommendation

We recommend declaring those variables as constant.

## Public function that could be declared external

| ID | Severity      | Contract    | Details                                                                                                                                          |
|----|---------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 02 | Informational | PEPECEO Inu | Functions: isExcludedFromFees, updateDividendTracker, updateGasForProcessing, withdrawableDividendOf, dividendTokenBalanceOf, totalRewardsEarned |

### Description

Gas Optimization. Public function that could be declared external

### Recommendation

Public functions that are never called by the contract should be declared external to save gas.

## Missing events arithmetic

| ID | Severity        | Contract    | Details                                                 |
|----|-----------------|-------------|---------------------------------------------------------|
| 03 | ● Informational | PEPECEO Inu | Missing events for setLastProcessedIndex, changeDevRate |

### Description

Functions that change critical arithmetic parameters should emit an event.

### Recommendation

Emit corresponding events for critical parameter changes.

## Uninitialized local variables

| ID | Severity        | Contract    | Details              |
|----|-----------------|-------------|----------------------|
| 04 | ● Informational | PEPECEO Inu | function _transfer() |

### Description

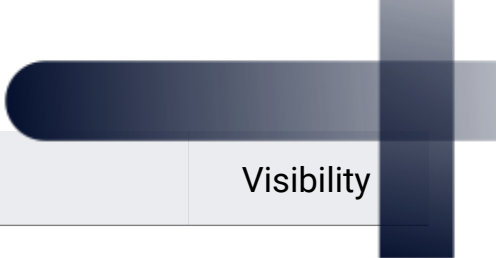
Variables lastProcessedIndex, iterations, claims

### Recommendation

Initialize all the variables. If a variable is meant to be initialized to zero, explicitly set it to zero to improve code readability.

## Privileged Functions (onlyOwner & Others)

| Function Name                         | Parameters                                                                   | Visibility |
|---------------------------------------|------------------------------------------------------------------------------|------------|
| renounceOwnership                     | none                                                                         | public     |
| transferOwnership                     | address newOwner                                                             | public     |
| distributeDividends                   | uint256 amount                                                               | public     |
| updateMinimumTokenBalanceForDividends | uint256 _newMinimumBalance                                                   | external   |
| excludeFromDividends                  | address account                                                              | external   |
| updateClaimWait                       | uint256 newClaimWait                                                         | external   |
| setLastProcessedIndex                 | uint256 index                                                                | external   |
| setBalance                            | address account, uint256 newBalance                                          | external   |
| processAccount                        | address account, bool automatic                                              | public     |
| claimStuckTokens                      | address token                                                                | external   |
| excludeFromFees                       | address account, bool excluded                                               | external   |
| updateBuyFees                         | uint256 _marketingFeeOnBuy, uint256 _devFeeOnBuy, uint256 _rewardFeeOnBuy    | external   |
| updateSellFees                        | uint256 _marketingFeeOnSell, uint256 _devFeeOnSell, uint256 _rewardFeeOnSell | external   |
| changeMarketingWallet                 | address _marketingWallet                                                     | external   |
| changeDevWallet                       | address _devWallet                                                           | external   |



| Function Name                    | Parameters                | Visibility |
|----------------------------------|---------------------------|------------|
| enableTrading                    | none                      | external   |
| setEnabledAntiBot                | bool _enable              | external   |
| setAntiBotBlockAmount            | uint256 amount            | external   |
| setSwapTokensAtAmount            | uint256 newAmount         | external   |
| updateDividendTracker            | address newAddress        | public     |
| updateGasForProcessing           | uint256 newValue          | public     |
| updateMinimumBalanceForDividends | uint256 newMinimumBalance | external   |
| updateClaimWait                  | uint256 claimWait         | external   |
| excludeFromDividends             | address account           | external   |
| claimAddress                     | address claimer           | external   |
| setLastProcessedIndex            | uint256 index             | external   |



# Statistics

## Liquidity Info

| Parameter        | Result                                     |
|------------------|--------------------------------------------|
| Pair Address     | 0xea3575689aE9752b39D66436CA54a1A90152E765 |
| PEPECEO Reserves | 0.00 PEPECEO                               |
| BNB Reserves     | 0.00 BNB                                   |
| Liquidity Value  | \$0 USD                                    |

## Token (PEPECEO) Holders Info

| Parameter                | Result    |
|--------------------------|-----------|
| PEPECEO Percentage Burnt | 0.00%     |
| PEPECEO Amount Burnt     | 0 PEPECEO |
| Top 10 Percentage Own    | 0.00%     |
| Top 10 Amount Owned      | 0 PEPECEO |
| Top 10 Aprox Value       | \$NaN USD |

## LP (PEPECEO/BNB) Holders Info

| Parameter                | Result        |
|--------------------------|---------------|
| PEPECEO/BNB % Burnt      | 0.00%         |
| PEPECEO/BNB Amount Burnt | 0 PEPECEO/BNB |
| Top 10 Percentage Owned  | 0.00%         |
| Top 10 Amount Owned      | 0 PEPECEO/BNB |
| Locked Tokens Percentage | 0.00%         |
| Locked Tokens Amount     | 0 PEPECEO/BNB |

\* All the data displayed above was taken on-chain at block 27744518

\* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

# KISHIELD



## Disclaimer

KISHIELD has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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