

Audit Report **Pepeki**

May 2023

Network ETH

Address 0x91A3F2220112822786cd7db3d21143CaD5c59670

Audited by © cyberscope

1





Table of Contents

Table of Contents	1
Review	2
Audit Updates	2
Source Files	3
Findings Breakdown	4
Analysis	5
Diagnostics	6
L02 - State Variables could be Declared Constant	7
Description	7
Recommendation	7
L04 - Conformance to Solidity Naming Conventions	8
Description	8
Recommendation	8
L05 - Unused State Variable	10
Description	10
Recommendation	10
L14 - Uninitialized Variables in Local Scope	11
Description	11
Recommendation	11
L16 - Validate Variable Setters	12
Description	12
Recommendation	12
L20 - Succeeded Transfer Check	13
Description	13
Recommendation	13
Functions Analysis	14
Inheritance Graph	18
Flow Graph	19
Summary	20
Disclaimer	21
About Cyberscope	22



Review

Contract Name	Pepeki
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	500 runs
Explorer	https://etherscan.io/address/0x91a3f2220112822786cd7db3d21 143cad5c59670
Address	0x91a3f2220112822786cd7db3d21143cad5c59670
Network	ETH
Symbol	PEPEKI
Decimals	9
Total Supply	420.690.000.000

Audit Updates

Initial Audit	11 May 2023 https://github.com/cyberscope-io/audits/blob/main/1-pepeki/v1 /audit.pdf
Corrected Phase 2	12 May 2023 https://github.com/cyberscope-io/audits/blob/main/1-pepeki/v2/audit.pdf
Corrected Phase 3	22 May 2023



Source Files

Filename	SHA256
Pepeki.sol	e385aec7ab1db825c6714a156dd8a0f70b64e6c1cdd5bb9927bfc4d2e0 e85377



Findings Breakdown



Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	6	0	0	0



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

Critical
 Medium
 Minor / Informative

Severity	Code	Description	Status
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L05	Unused State Variable	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved
•	L16	Validate Variable Setters	Unresolved
•	L20	Succeeded Transfer Check	Unresolved



L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	Pepeki.sol#L100,112
Status	Unresolved

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
uint256 private timeSinceLastPair = 0
bool public taxesAreLocked
```

Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	Pepeki.sol#L33,106,107,108,109,110,118,230
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.

```
function WETH() external pure returns (address);
uint256 constant private startingSupply = 420_690_000_000_000
string constant private _name = "Pepeki"
string constant private _symbol = "PEPEKI"
uint8 constant private _decimals = 9
uint256 constant private _tTotal = startingSupply * 10**_decimals
bool public _hasLiqBeenAdded = false
address _initializer
```

Recommendation



By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.



L05 - Unused State Variable

Criticality	Minor / Informative
Location	Pepeki.sol#L100
Status	Unresolved

Description

An unused state variable is a state variable that is declared in the contract, but is never used in any of the contract's functions. This can happen if the state variable was originally intended to be used, but was later removed or never used.

Unused state variables can create clutter in the contract and make it more difficult to understand and maintain. They can also increase the size of the contract and the cost of deploying and interacting with it.

uint256 private timeSinceLastPair = 0

Recommendation

To avoid creating unused state variables, it's important to carefully consider the state variables that are needed for the contract's functionality, and to remove any that are no longer needed. This can help improve the clarity and efficiency of the contract.



L14 - Uninitialized Variables in Local Scope

Criticality	Minor / Informative
Location	Pepeki.sol#L234
Status	Unresolved

Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

address router
address constructorLP

Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.



L16 - Validate Variable Setters

Criticality	Minor / Informative
Location	Pepeki.sol#L175
Status	Unresolved

Description

The contract performs operations on variables that have been configured on user-supplied input. These variables are missing of proper check for the case where a value is zero. This can lead to problems when the contract is executed, as certain actions may not be properly handled when the value is zero.

operator = newOperator

Recommendation

By adding the proper check, the contract will not allow the variables to be configured with zero value. This will ensure that the contract can handle all possible input values and avoid unexpected behavior or errors. Hence, it can help to prevent the contract from being exploited or operating unexpectedly.



L20 - Succeeded Transfer Check

Criticality	Minor / Informative
Location	Pepeki.sol#L336
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
TOKEN.transfer(_owner, TOKEN.balanceOf(address(this)))
```

Recommendation

The contract should check if the result of the transfer methods is successful. The team is advised to check the SafeERC20 library from the Openzeppelin library.

Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	1	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-



	sync	External	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporting FeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
Initializer	Interface			
	setLaunch	External	✓	-
	getConfig	External	✓	-
	setLpPair	External	✓	-
Pepeki	Implementation	IERC20		



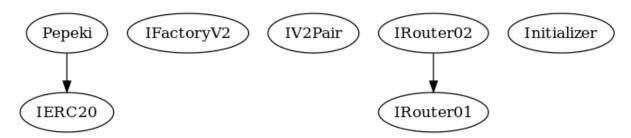
	Public	Payable	-
	External	Payable	-
transferOwner	External	1	onlyOwner
renounceOwnership	External	1	onlyOwner
setOperator	Public	✓	-
renounceOriginalDeployer	External	✓	-
totalSupply	External		-
decimals	External		-
symbol	External		-
name	External		-
getOwner	External		-
allowance	External		-
balanceOf	Public		-
transfer	Public	✓	-
approve	External	✓	-
_approve	Internal	✓	
approveContractContingency	External	✓	onlyOwner
transferFrom	External	✓	-
setInitializer	External	✓	onlyOwner
isExcludedFromProtection	External		-
setExcludedFromProtection	External	√	onlyOwner
getCirculatingSupply	Public		-
excludePresaleAddresses	External	✓	onlyOwner



_hasLimits	Internal		
_transfer	Internal	✓	
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	✓	onlyOwner
sweepBalance	External	1	onlyOwner
sweepExternalTokens	External	1	onlyOwner
multiSendTokens	External	1	onlyOwner
finalizeTransfer	Internal	1	

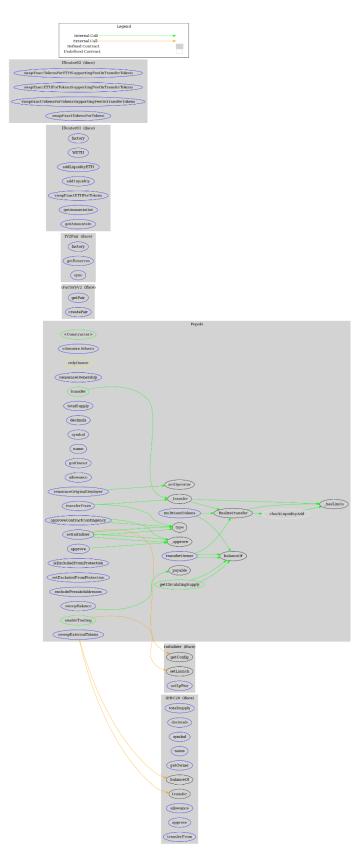


Inheritance Graph





Flow Graph





Summary

Pepeki contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Pepeki is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors or critical issues. The Contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.



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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

