

Smart Contract Audit

FOR
PEPE GROK

DATED: 19 Dec 23'



Centralization - Buy and Sell Fees.

Severity: High

function: setBuyFee and setSellFee

Status: Open

Overview:

The owner can set the buy and sell fees to more than 100%, which is not recommended.

```
function setBuyFee(uint256 bf) external onlyOwner{
   buyFee = bf;
}
function setSellFee(uint256 sf) external onlyOwner{
   sellFee = sf;
}
```

Suggestion

It is recommended that no fees in the contract should be more than 25% of the contract.



Centralization - The owner can Blacklist

Wallet.

Severity: High

function: blacklistAddress

Status: Open

Overview:

The owner can blacklist multiple wallets.

```
function blacklistAddress(address account, bool value) public
onlyOwner {
    _isBlacklisted[account] = value;
}
```



AUDIT SUMMARY

Project name - PEPE GROK

Date: 19 Dec, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed With Very High Risk (Blacklist)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	2	0	2	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x418c56591bf6e 834d4fedd0dde9356f4863f1699#code



Token Information

Token Address:

OxeebCAE2F8aBFEA67f42E7b2B18b8B7b56628EB21

Name: PEPE GROK

Symbol: PEPE GROK

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner: 0x2DB68BEd43a06F7C164A8531d63E2163D7Ad863C

Deployer:

0x2DB68BEd43a06F7C164A8531d63E2163D7Ad863C

Total Supply: 420,690,000,000,000

Checksum: ade3cef7c2c788bc03532d7342fc9fak

Testnet:

https://testnet.bscscan.com/address/0x418c56591bf6e834d4fedd0dde9356f4863f1699#code



TOKEN OVERVIEW

Buy Fee: 0-100%

Sell Fee: 0-100%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: Yes

Blacklist: Yes



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

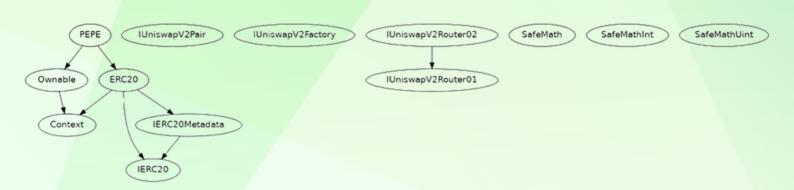
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	2
◆ Medium-Risk	0
◆ Low-Risk	2
Gas Optimization /Suggestions	1



INHERITANCE TREE





POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can exclude/include wallets from fees.
- The owner can set buy and sell fees of more than 100%.
- The owner can set swap Amounts.
- The owner can blacklist multiple wallet addresses.



STATIC ANALYSIS

```
| INDID Detectors: |
Contract PERG (ope; soles) |
Contract PERG (ope; soles) |
PERF. receive() (ope; soles) |
PERF. receive() (ope; soles) |
PERF. receive() (ope; soles) |
Reference; |
PERF. receive() (ope; soles) |
Reference; |
PERF. receive() (ope; soles) |
Reference; |
PERF. receive() (ope; soles) |
PERF.
```



STATIC ANALYSIS

```
INFO:Detectors:

Variable Initiasapy?Racuter01.addLiquidity(address, address, uint256, uint256, uint256, uint256, uint256, uint256, address, address, uint256).lpfees_scope_0 (pepe.sol8528) is too similar to PEPE. transfer(address, address, uint256).lpfees_scope_1 (pepe.sol8533)

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8variable-names-too-similar

INFO:Detectors:

- _mint(owner(), u20000000000000 * (10 ** 18)) (pepe.sol8301)

PEPE.cishtractors() (pepe.sol8042-052) uses literals with too many digits:
- _mint(owner(), u200000000000000 * (10 ** 18)) (pepe.sol80431)

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8too-many-digits

INFO:Detectors:

SafeMathint.AMA_INIT256 (pepe.sol8291) is never used in SafeMathint (pepe.sol829-320)

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8unused-state-variable

INFO:Detectors:

PEPE_marketingMalletAddress (pepe.sol8303) should be constant

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-constant

INFO:Detectors:
- PEPE_multipleBlacklistAddress(), bool) (pepe.sol8079-003)

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-constant

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-constant

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-constant

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-external

INFO:Detectors:
- PEPE_multipleBlacklistAddress(address(), bool) (pepe.sol8079-003)

Reference: https://github.com/crytic/slither/miki/Detector-Occumentation8tate-variables-that-could-be-declared-external

INFO:Detectors:
- PEPE_mu
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x785a7f41a7c71f4bbed2689754f0399f328 5a8efdeb5e13d7357e2e5aa9b0fc6

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x6e9203084ce61d45dac559f2ac31dc17df2 8f06524ac30d55d69d5df2fe85aae

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x43417efcd1611d854717b9fd98b354d55d2 706f80dabce5f57ee8a8fe99754d1

4- Blacklist Address (passed):

https://testnet.bscscan.com/tx/0x4d311863901446c958d6f65dc13171adb89e616f748fb548614f12e0db18f618



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```



Centralization - Missing Events

Severity: Low

subject: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function setSwapAmounts(uint256 value) external onlyOwner{
    swapTokensAtAmount = value;
}
function settimes(uint256 t) external onlyOwner{
    times = t;
}
function settimeSecord(uint256 tt) external onlyOwner{
    timeSecord = tt;
}
function settimeFee(uint256 ttt) external onlyOwner{
    timeFee = ttt;
}
function setBuyFee(uint256 bf) external onlyOwner{
    buyFee = bf;
}
function setSellFee(uint256 sf) external onlyOwner{
    sellFee = sf;
}
```



Centralization - Old Compiler Version

Severity: Low

subject: Old Solidity version

Status: Open

Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.6.2;

Suggestion:

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.



Optimization

Severity: Optimization

subject: Remove unused code.

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice, though to avoid them

function _msgData() internal view virtual returns (bytes calldata) {
 this; // silence state mutability warning without generating
 bytecode - see https://github.com/ethereum/solidity/issues/2691
 return msg.data;
}



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