



# KISHIELD

Security Audit

**Passifi Token**

July 8, 2022



Audit Passed



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# Audit Summary

This report has been prepared for Passifi Token on the Binance Chain 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	0x8ea346816accdf6f3658eb2b8f31b59992a9b6cc
Name	Passifi
Token Tracker	Passifi (PFI)
Decimals	18
Supply	100,000,000
Platform	Binance Chain
compiler	v0.8.12+commit.f00d7308
Optimization	Yes with 1000 runs
LicenseType	Unlicense
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x8ea346816accdf6f3658eb2b8f31b59992a9b6cc#code">https://bscscan.com/address/0x8ea346816accdf6f3658eb2b8f31b59992a9b6cc#code</a>
Url	<a href="https://www.passifi.org">https://www.passifi.org</a>

## Main Contract Assessed

Name	Contract	Live
Passifi	0x8ea346816accdf6f3658eb2b8f31b59992a9b6cc	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 / No Risk
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 Passifi 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 0x33bf5fabd2bb973a671b32c4f9a84ef757202a19 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:

- MAX\_WALLET\_PERCENT is set to 2% of the totalSupply at deployment.
- MAX\_TRANSACTION\_PERCENT is set to 1% of the totalSupply at deployment.
- The owner cannot mint new tokens after deployment.
- The owner cannot blacklist wallets.
- Trading is disabled at deployment but owner can enable it.
- The owner cannot stop trading.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can change the MAX\_WALLET\_PERCENT without restrictions.
- The owner can change the MAX\_TRANSACTION\_PERCENT but it cannot be set to less than 0.3% of the totalSupply.
- The owner can add/remove wallets from fee exemption, maxWallet and maxTransaction.
- The owner cannot set the buy or sell fees over 20%.
- The owner can change MARKETING\_WALLET, TREASURY\_WALLET, DEVELOPMENT\_WALLET with no restrictions.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

## Audit Passed



# Technical Findings Summary

## Classification of Issues

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	5
Total	5



# Findings

## Irrelevant Comments

ID	Severity	Contract	Function
01	Informational	Passifi	General

### Description

Smart Contract Style. Debugging methods such as hardhat/console.sol provide no value for the contract readers

### Recommendation

We recommend deleting comments that make use of "console.log".

## Public function that could be declared external

ID	Severity	Contract	Function
02	Informational	Passifi	Functions: renounceOwnership, transferOwnership, setAutomatedMarketMakerPair

### 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	Function
03	● Informational	Passifi	Missing events for setSwapTokensAtAmount, updatePercent

### Description

Functions that change critical arithmetic parameters should emit an event.

### Recommendation

Emit corresponding events for critical parameter changes.

## Too many digits

ID	Severity	Contract	Function
04	● Informational	Passifi	Variable TOTAL_SUPPLY


### Description

Literals with many digits are difficult to read and review.

### Recommendation

Make use of scientific notation, use underscores, and/or use ether suffix.

## Uninitialized local variables

ID	Severity	Contract	Function
05	 Informational	Passifi	function _transfer()

### Description

Variable totalContractFee.

### 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
setSwapTokensAtAmount	uint256 amount	external
setAutomatedMarketMakerPair	address pair, bool value	public
setSellFee	uint256 _marketingWallet, uint256 _treasuryWallet, uint256 _developmentWallet	external
setBuyFee	uint256 _marketingWallet, uint256 _treasuryWallet, uint256 _developmentWallet	external
updatePercent	uint256 _maxWalletPercent, uint _maxTransactionPercent	external
setWallets	address _marketingWallet, address _treasuryWallet, address _developmentWallet	external
excludeFromFees	address _address	external
includeInFees	address _address	external
excludeFromMaxWallet	address _address	external
includeInMaxWallet	address _address	external
excludeFromMaxTransaction	address _address	external
includeInMaxTransaction	address _address	external
enableTrading	none	external

# Statistics

## Liquidity Info

Parameter	Result
Pair Address	0xab3b05cd0e32a9c644ae58dd432c39f66ac7009b
PFI Reserves	0.00 PFI
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

## Token (PFI) Holders Info

Parameter	Result
PFI Percentage Burnt	0.00%
PFI Amount Burnt	0 PFI
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	100,000,000 PFI
Top 10 Aprox Value	\$NaN USD

## LP (PFI/BNB) Holders Info

Parameter	Result
PFI/BNB % Burnt	0.00%
PFI/BNB Amount Burnt	0 PFI/BNB
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 PFI/BNB
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 PFI/BNB

\* All the data displayed above was taken on-chain at block 19381299

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

## Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 19381299

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## 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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