

# Audit Report ShibaYield

January 2022

Type BEP20

Network BSC

Address 0x3FDEA4CEB2ff518CF5Be08172E780f79F2c06138

Audited by © coinscope



# **Table of Contents**

Table of Contents	1
Contract Review	3
Audit Updates	3
Contract Analysis	4
Contract Diagnostics	5
L01 - Public Function could be Declared External	6
Description	6
Recommendation	6
L05 - Unused State Variable	7
Description	7
Recommendation	7
L04 - Conformance to Solidity Naming Conventions	8
Description	8
Recommendation	8
L09 - Dead Code Elimination	9
Description	9
Recommendation	9
L07 - Missing Events Arithmetic	10
Description	10
Recommendation	10
Contract Functions	11
Contract Flow	21
Domain Info	22
Summary	23
Disclaimer	24
About Coinscope	25



# **Contract Review**

Contract Name	BABYTOKEN
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x3FDEA4CEB2ff518CF5Be08172E780f79F2c06138
Symbol	SHIY
Decimals	18
Total Supply	100,000,000
Source	contract.sol
Domain	shibayield.com

# **Audit Updates**

Initial Audit	10th January 2022
Corrected	



# **Contract Analysis**

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling

4

# **Contract Diagnostics**

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L05	Unused State Variable
•	L04	Conformance to Solidity Naming Conventions
•	L09	Dead Code Elimination
•	L07	Missing Events Arithmetic



# L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L2894,L2882,L2874 and 40 more

#### Description

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

isExcludedFromDividends
dividendTokenBalanceOf
withdrawableDividendOf

---

#### Recommendation

Use the external attribute for functions never called from the contract.



# L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L1774,L1843

# Description

There are segments that contains unused state variable.

\_\_gap MAX\_INT256

#### Recommendation

Remove unused state variables.



# L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L2601,L2372,L2086 and 21 more

#### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
_marketingWalletAddress
_account
magnitude
...
```

#### Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions



# L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L1848,L1860,L1889 and 18 more

# Description

Functions that are not used in the contract, and make the code's size bigger.

```
mul
div
abs
...
```

#### Recommendation

Remove unused functions.



# L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L2798,L2792,L2786 and 1 more

#### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
marketingFee = value
liquidityFee = value
totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee)
...
```

#### Recommendation

Emit an event for critical parameter changes.



# **Contract Functions**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metada ta	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-



	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	1	
	_approve	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	1	
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	<b>✓</b>	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_setOwner	Private	1	
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
		Internal		



	clone	Internal	✓	
	cloneDeterministic	Internal	1	
	predictDeterministicAddress	Internal		
	predictDeterministicAddress	Internal		
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	1	-
	swapTokensForExactTokens	External	<b>✓</b>	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	<b>✓</b>	-
	swapExactTokensForETH	External	<b>✓</b>	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-



	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	1	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	1	-
IERC20Upgrad	Interface			
eable				
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	<b>√</b>	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	<b>✓</b>	-
IERC20Metada taUpgradeable	Interface	IERC20Upg radeable		
	name	External		-
	symbol	External		-
	decimals	External		-
Initializable	Implementation			
ContextUpgra deable	Implementation	Initializable		
	Context_init	Internal	<b>✓</b>	initializer
	Context_init_unchained	Internal	<b>√</b>	initializer
	_msgSender	Internal		
	_msgData	Internal		



ERC20Upgrad eable	Implementation	Initializable, ContextUpg radeable, IERC20Upg radeable, IERC20Met adataUpgra deable		
	ERC20_init	Internal	<b>√</b>	initializer
	ERC20_init_unchained	Internal	<b>✓</b>	initializer
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	1	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	1	
	_burn	Internal	✓	
	_approve	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	✓	
OwnableUpgra deable	Implementation	Initializable, ContextUpg radeable		
	Ownable_init	Internal	1	initializer
	Ownable_init_unchained	Internal	1	initializer
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_setOwner	Private	1	



IUniswapV2Pai r	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	1	-
	transfer	External	<b>✓</b>	-
	transferFrom	External	1	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	1	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	1	-
	burn	External	1	-
	swap	External	1	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	<b>✓</b>	-
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		



	abs	Internal		
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
	tomizoodalo	mioria		
IterableMappin	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-
	set	Public	1	-
	remove	Public	✓	-
DividendPayin gTokenInterfac e	Interface			
	dividendOf	External		-
	withdrawDividend	External	✓	-
DividendPayin gTokenOption alInterface	Interface			
	withdrawableDividendOf	External		-
	withdrawnDividendOf	External		-
	accumulativeDividendOf	External		-
DividendPayin gToken	Implementation	ERC20Upgr adeable, OwnableUp gradeable, DividendPay ingTokenInt erface, DividendPay ingTokenOp tionalInterfa		
	DividendPayingToken_init	Internal	✓	initializer



	distributeCAKEDividends	Public	✓	onlyOwner
	withdrawDividend	Public	1	-
	_withdrawDividendOfUser	Internal	1	
	dividendOf	Public		-
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	Public		-
	accumulativeDividendOf	Public		-
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	1	
	_setBalance	Internal	1	
BABYTOKEND ividendTracker	Implementation	OwnableUp gradeable, DividendPay ingToken		
	initialize	External	1	initializer
	_transfer	Internal		
	withdrawDividend	Public		-
	excludeFromDividends	External	1	onlyOwner
	isExcludedFromDividends	Public		-
	updateClaimWait	External	✓	onlyOwner
	updateMinimumTokenBalanceForDivi dends	External	✓	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	✓	onlyOwner
	process	Public	✓	-
	processAccount	Public	✓	onlyOwner
BaseToken	Implementation			
BABYTOKEN	Implementation	ERC20, Ownable,		



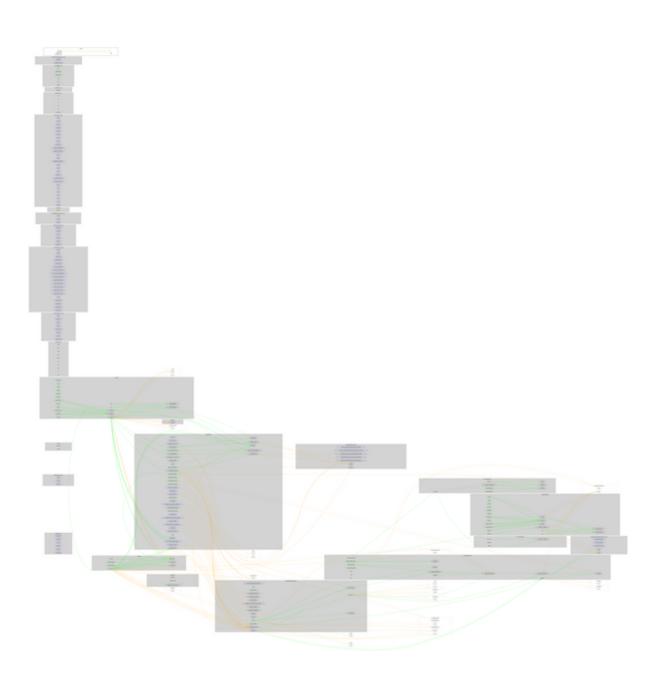
	BaseToken		
<constructor></constructor>	Public	Payable	ERC20
<receive ether=""></receive>	External	Payable	-
setSwapTokensAtAmount	External	1	onlyOwner
updateDividendTracker	Public	<b>✓</b>	onlyOwner
updateUniswapV2Router	Public	1	onlyOwner
excludeFromFees	Public	<b>✓</b>	onlyOwner
excludeMultipleAccountsFromFees	Public	<b>✓</b>	onlyOwner
setMarketingWallet	External	<b>✓</b>	onlyOwner
setTokenRewardsFee	External	1	onlyOwner
setLiquiditFee	External	<b>✓</b>	onlyOwner
setMarketingFee	External	1	onlyOwner
setAutomatedMarketMakerPair	Public	<b>√</b>	onlyOwner
_setAutomatedMarketMakerPair	Private	1	
updateGasForProcessing	Public	✓	onlyOwner
updateClaimWait	External	1	onlyOwner
getClaimWait	External		-
updateMinimumTokenBalanceForDivi dends	External	<b>✓</b>	onlyOwner
getMinimumTokenBalanceForDividen ds	External		-
getTotalDividendsDistributed	External		-
isExcludedFromFees	Public		-
withdrawableDividendOf	Public		-
dividendTokenBalanceOf	Public		-
excludeFromDividends	External	<b>✓</b>	onlyOwner
isExcludedFromDividends	Public		-
getAccountDividendsInfo	External		-
getAccountDividendsInfoAtIndex	External		-
processDividendTracker	External	1	-
claim	External	1	-
getLastProcessedIndex	External		-
getNumberOfDividendTokenHolders	External		-
_transfer	Internal	<b>✓</b>	
swapAndSendToFee	Private	<b>✓</b>	
swapAndLiquify	Private	1	



swapTokensForEth	Private	✓	
swapTokensForCake	Private	✓	
addLiquidity	Private	✓	
swapAndSendDividends	Private	✓	



# **Contract Flow**





# Domain Info

Domain Name	shibayield.com
Registry Domain ID	2658929953_DOMAIN_COM-VRSN
Creation Date	2021-12-01T07:00:00Z
Updated Date	2021-12-26T07:00:00Z
Registry Expiry Date	
Registrar WHOIS Server	whois.namesilo.com
Registrar URL	https://www.namesilo.com/
Registrar	NameSilo, LLC
Registrar IANA ID	1479

The domain has been created about 1 month before the creation of the audit.

There is no public billing information, the creator is protected by the privacy settings.



# Summary

ShibaYield Token is an interesting project with a friendly and growing community. The project is a Yield Generator with Tokenomics Rewards for holders. The Smart Contract analysis reported no compiler error 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. There is also a limit of max 25% fees.



# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Coinscope team disclaims any liability for the resulting losses.



# **About Coinscope**

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co